

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	B29B	2911/00, 2911/14, 2911/14006, 2911/14013, 2911/1402, 2911/14026, 2911/14033, 2911/1404, 2911/14046, 2911/14053, 2911/1406, 2911/14066, 2911/14073, 2911/1408, 2911/14086, 2911/14093, 2911/141, 2911/14106, 2911/14113, 2911/1412, 2911/14126, 2911/14133, 2911/1414, 2911/14146, 2911/14153, 2911/1416, 2911/14166, 2911/14173, 2911/1418, 2911/14186, 2911/14193, 2911/142, 2911/14206, 2911/14213, 2911/1422, 2911/14226, 2911/14233, 2911/1424, 2911/14246, 2911/14253, 2911/1426, 2911/14266, 2911/14273, 2911/1428, 2911/14286, 2911/14293, 2911/143, 2911/14306, 2911/14313, 2911/1432, 2911/14326, 2911/14328, 2911/1433, 2911/14331, 2911/14332, 2911/14333, 2911/14335, 2911/14336, 2911/14337, 2911/14338, 2911/1434, 2911/14341, 2911/14343, 2911/14344, 2911/14345, 2911/14346, 2911/14348, 2911/1435, 2911/14351, 2911/14352, 2911/14353, 2911/1436, 2911/14366, 2911/14373, 2911/1438, 2911/14386, 2911/14393, 2911/144, 2911/14406, 2911/14413, 2911/1442, 2911/14426, 2911/14433, 2911/1444, 2911/14446, 2911/14453, 2911/1446, 2911/14466, 2911/14473, 2911/1448, 2911/14486, 2911/14493, 2911/145, 2911/14506, 2911/14513, 2911/1452, 2911/14526, 2911/14533, 2911/1454, 2911/14546, 2911/14553, 2911/1456, 2911/14566, 2911/14573, 2911/1458, 2911/14586, 2911/14593, 2911/146, 2911/14606, 2911/14613, 2911/1462, 2911/14626, 2911/14633, 2911/1464, 2911/14646, 2911/14653, 2911/1466, 2911/14666, 2911/14673, 2911/1468, 2911/14686, 2911/14693, 2911/147, 2911/14706, 2911/14713, 2911/1472, 2911/14726, 2911/14733, 2911/1474, 2911/14746, 2911/14753, 2911/1476,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP010424

		2911/14766, 2911/14773, 2911/1478, 2911/14786, 2911/14793, 2911/148, 2911/14806, 2911/14813, 2911/1482, 2911/14826, 2911/14833, 2911/1484, 2911/14846, 2911/14853, 2911/1486, 2911/14866, 2911/14873, 2911/1488, 2911/14886, 2911/14893, 2911/149, 2911/14906, 2911/14913, 2911/1492, 2911/14926, 2911/14933, 2911/1494, 2911/14946, 2911/14953, 2911/1496, 2911/14966, 2911/14973, 2911/1498, 2911/14986, 2911/14993
	B29C	2049/001, 49/0026, 2049/0036, 49/0047, 2049/0052, 2049/0057, 2049/0063, 2049/0068, 49/0073, 49/0078, 49/0084, 2049/0089, 2049/0094, 2049/021, 49/022, 2049/025, 2049/026, 2049/027, 2049/028, 2049/042, 2049/044, 2049/045, 2049/047, 2049/048, 2049/066, 2049/067, 2049/068, 2049/069, 2049/1204, 2049/1209, 2049/1214, 2049/1219, 2049/1223, 2049/1228, 2049/1233, 2049/1238, 2049/1242, 2049/1247, 2049/1252, 2049/1257, 2049/1261, 2049/1266, 2049/1271, 2049/1276, 2049/128, 2049/1285, 2049/129, 2049/1295, 2049/165, 49/185, 2049/2004, 2049/2091, 49/221, 2049/224, 2049/225, 2049/227, 2049/228, 2049/2402, 2049/2406, 2049/241, 2049/2416, 2049/2418, 2049/242, 2049/2427, 2049/2477, 2049/2489, 2049/2491, 2049/2493, 2049/2495, 2049/2497, 2049/283, 2049/286, 49/421, 49/4215, 2049/4221, 2049/4226, 2049/4231, 2049/4257, 2049/4263, 2049/4682, 2049/4685, 2049/4688, 2049/4691, 2049/4694, 2049/4812, 2049/4828, 2049/4841, 2049/4843, 2049/4869, 2049/4871, 2049/4897, 2049/5803, 2049/6009, 2049/625, 49/6481, 49/649, 2049/663, 2049/6638, 2049/704, 2049/705
	B29C	2949/78, 2949/78008, 2949/78016, 2949/78025, 2949/78033, 2949/78042, 2949/7805, 2949/78058, 2949/78067, 2949/78075, 2949/78084, 2949/78092, 2949/781, 2949/78109, 2949/78117, 2949/78126, 2949/78134, 2949/78142, 2949/78151, 2949/78159, 2949/78168, 2949/78176, 2949/78184, 2949/78193, 2949/78201, 2949/7821, 2949/78218, 2949/78226, 2949/78235, 2949/78243, 2949/78252, 2949/7826, 2949/78268,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP010424

		<p>2949/78277, 2949/78285, 2949/78294, 2949/78302, 2949/7831, 2949/78319, 2949/78327, 2949/78336, 2949/78344, 2949/78352, 2949/78361, 2949/78369, 2949/78378, 2949/78386, 2949/78394, 2949/78403, 2949/78411, 2949/7842, 2949/78428, 2949/78436, 2949/78445, 2949/78453, 2949/78462, 2949/7847, 2949/78478, 2949/78487, 2949/78495, 2949/78504, 2949/78512, 2949/78521, 2949/78529, 2949/78537, 2949/78546, 2949/78554, 2949/78563, 2949/78571, 2949/78579, 2949/78588, 2949/78596, 2949/78605, 2949/78613, 2949/78621, 2949/7863, 2949/78638, 2949/78647, 2949/78655, 2949/78663, 2949/78672, 2949/7868, 2949/78689, 2949/78697, 2949/78705, 2949/78714, 2949/78722, 2949/78731, 2949/78739, 2949/78747, 2949/78756, 2949/78764, 2949/78773, 2949/78781, 2949/78789, 2949/78798, 2949/78806, 2949/78815, 2949/78823, 2949/78831, 2949/7884, 2949/78848, 2949/78857, 2949/78865, 2949/78873, 2949/78882, 2949/7889, 2949/78899, 2949/78907, 2949/78915, 2949/78924, 2949/78932, 2949/78941, 2949/78949, 2949/78957, 2949/78966, 2949/78974, 2949/78983, 2949/78991</p>
<p>Symbols New:</p>	<p>B29C</p>	<p>49/0006, 49/0022, 49/0023, 49/0024, 49/0025, 49/0027, 49/0028, 49/0029, 49/003, 49/006, 49/0062, 49/0064, 49/0208, 49/04102, 49/04104, 49/04106, 49/04108, 49/0411, 49/04112, 49/04114, 49/04116, 49/04118, 49/0412, 49/0665, 49/0685, 49/06905, 49/0691, 49/06912, 49/06914, 49/06916, 49/071, 49/086, 49/087, 49/0871, 49/0872, 49/1202, 49/1205, 49/1206, 49/1208, 49/121, 49/1212, 49/1215, 49/1216, 49/1218, 49/122, 49/1222, 49/1224, 49/1226, 49/1229, 49/123, 49/1232, 49/1602, 49/1802, 2049/2071, 2049/24302, 2049/24304, 2049/24306, 2049/24308, 2049/2442, 49/249, 49/251, 49/28002, 49/28004, 49/28006, 49/28008, 49/28012, 49/42051, 49/42053, 49/42055, 49/42057, 49/42059, 49/42061, 49/42063, 49/42065, 49/42067, 49/42069, 49/4207, 49/42071, 49/42073, 49/42075, 49/42077, 49/42079, 49/42081, 49/42083, 49/42085, 49/42087, 49/42089, 49/42091, 49/42093, 49/42095, 49/42097, 49/42099, 49/42101, 49/42103, 49/42105, 49/42107, 49/42109, 49/42111,</p>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP010424

		<p>49/42113, 49/42115, 49/42117, 49/42119, 49/42121, 49/42122, 49/42155, 49/42362, 49/4237, 49/42372, 49/42374, 49/42376, 49/42378, 49/4238, 49/42382, 49/42384, 49/42386, 49/42388, 49/4239, 49/42392, 49/42394, 49/42396, 49/42398, 49/424, 49/42402, 49/42403, 49/42405, 49/42407, 49/42408, 49/42409, 49/4241, 49/42412, 49/42413, 49/42414, 49/42416, 49/42418, 49/42421, 49/42422, 49/42424, 49/42426, 49/42428, 49/4244, 49/42442, 49/42444, 49/42446, 49/42448, 49/4245, 49/42452, 49/42454, 49/425, 49/4251, 49/427, 49/428, 49/42802, 49/42806, 49/42808, 49/42809, 49/4281, 49/42811, 49/42815, 49/42817, 49/4282, 49/42822, 49/42824, 49/42826, 49/42828, 49/4283, 49/42832, 49/42834, 49/42836, 49/42845, 49/4285, 49/42855, 49/4286, 49/42865, 49/4287, 2049/4296, 2049/4298, 2049/431, 2049/4698, 2049/4699, 49/4812, 49/48185, 49/4819, 2049/4854, 2049/48615, 2049/4862, 2049/4863, 49/487105, 2049/4881, 2049/48825, 2049/4883, 49/5601, 49/5602, 49/5603, 49/5604, 49/5605, 49/5606, 49/5607, 49/5608, 49/561, 49/5611, 49/5612, 49/5613, 49/5614, 2049/5631, 2049/5632, 2049/5633, 2049/5634, 2049/5635, 2049/5636, 2049/5661, 2049/5662, 2049/5663, 2049/5664, 2049/5665, 2049/5666, 2049/5898, 2049/6091, 2049/6092, 2049/6271, 2049/6272, 49/6419, 49/64195, 49/642, 49/643, 49/6435, 49/645, 49/6452, 49/6458, 49/6462, 49/6464, 49/6465, 49/6466, 49/6467, 49/648, 49/6604, 49/6605, 49/66055, 2049/6606, 2049/671, 49/681, 49/682, 49/6825, 49/683, 49/6835, 49/684, 49/6845, 49/685, 49/6855, 2049/709, 49/761, 2049/7831, 2049/7832, 2049/7833, 2049/7834, 2049/7835, 2049/7861, 2049/7862, 2049/7863, 2049/7864, 2049/78645, 2049/7865, 2049/7866, 2049/7867, 2049/78675, 2049/7868, 2049/787, 2049/78705, 2049/7871, 2049/78715, 2049/7873, 2049/7874, 2049/78745, 2049/7875, 2049/78755, 2049/7876, 2049/78765, 2049/7878, 2049/7879, 2049/788, 2049/78805, 2049/7881, 2049/78815, 2049/7882, 2049/801</p>
	B29C	<p>2949/07, 2949/071, 2949/0715, 2949/072, 2949/0721, 2949/0722, 2949/0723,</p>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP010424

		2949/0724, 2949/0725, 2949/073, 2949/0731, 2949/0732, 2949/0733, 2949/0734, 2949/074, 2949/0741, 2949/0742, 2949/0744, 2949/0745, 2949/0746, 2949/0747, 2949/075, 2949/0751, 2949/0752, 2949/0753, 2949/0754, 2949/076, 2949/0761, 2949/0762, 2949/0763, 2949/0764, 2949/0765, 2949/0766, 2949/0767, 2949/0768, 2949/0769, 2949/077, 2949/0771, 2949/0772, 2949/0773, 2949/0774, 2949/0775, 2949/0776, 2949/0777, 2949/0778, 2949/0779, 2949/078, 2949/0781, 2949/0782, 2949/079, 2949/0791, 2949/0792, 2949/0793, 2949/0794, 2949/0795, 2949/0796, 2949/0797, 2949/0798, 2949/0799, 2949/08, 2949/0801, 2949/081, 2949/0811, 2949/0812, 2949/0813, 2949/0814, 2949/0815, 2949/0816, 2949/0817, 2949/0818, 2949/0819, 2949/082, 2949/0821, 2949/0822, 2949/0823, 2949/0824, 2949/0825, 2949/0826, 2949/0827, 2949/0828, 2949/0829, 2949/083, 2949/0831, 2949/0832, 2949/0833, 2949/0834, 2949/0835, 2949/0836, 2949/0837, 2949/0838, 2949/0839, 2949/084, 2949/0841, 2949/0842, 2949/0843, 2949/0844, 2949/0845, 2949/0846, 2949/0847, 2949/0849, 2949/085, 2949/0851, 2949/0852, 2949/0853, 2949/0854, 2949/0855, 2949/0856, 2949/086, 2949/0861, 2949/0862, 2949/0863, 2949/0864, 2949/0865, 2949/0866, 2949/0867, 2949/0868, 2949/0869, 2949/087, 2949/0871, 2949/0872, 2949/20, 2949/22, 2949/24, 2949/26, 2949/28, 2949/30, 2949/3004, 2949/3006, 2949/3008, 2949/3009, 2949/3012, 2949/3014, 2949/3016, 2949/3018, 2949/302, 2949/3022, 2949/3024, 2949/3026, 2949/3028, 2949/303, 2949/3032, 2949/3034, 2949/3036, 2949/3038, 2949/3041, 2949/3042, 2949/3044, 2949/3046, 2949/3048, 2949/3051, 2949/3052, 2949/3054, 2949/3056, 2949/3058, 2949/306, 2949/3062, 2949/3064, 2949/3066, 2949/3068, 2949/307, 2949/3074, 2949/3076, 2949/3078, 2949/308, 2949/3082, 2949/3084, 2949/3086, 2949/3088, 2949/309, 2949/3092, 2949/3094
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CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP010424

Titles Changed:	B29C	49/00, 49/0005, 49/0015, 49/0031, 49/0042, 49/06, 2049/065, 49/08, 49/085, 49/16, 2049/2008, 2049/2013, 2049/2017, 2049/2021, 2049/2069, 2049/2086, 2049/2095, 2049/2404, 49/2408, 2049/2412, 2049/2414, 2049/2422, 2049/2425, 2049/2431, 2049/2433, 2049/2441, 2049/2443, 2049/2458, 2049/2462, 2049/2464, 49/4205, 49/4247, 49/4252, 49/4268, 49/4273, 49/4278, 2049/4294, 2049/4673, 2049/4679, 2049/4853, 2049/4856, 2049/4874, 2049/4879, 2049/4882, 49/58, 2049/5855, 2049/5858, 2049/6018, 2049/6027, 2049/6045, 2049/609, 2049/622, 2049/627, 49/6418, 49/6427, 49/6436, 49/6454, 49/6463, 49/6472, 2049/6653, 2049/6661, 2049/6669, 2049/6676, 2049/707, 2049/708, 49/783, 49/786
	B29C	2949/00
Indents Changed:	B29C	2049/2008, 2049/2013, 2049/2017, 2049/2404, 2049/2412, 2049/2422, 2049/2425, 2049/2431, 2049/2433, 2049/2435, 2049/2437, 2049/2439, 2049/2441, 2049/2458, 2049/246, 2049/2462, 49/4815, 49/4817, 2049/5806, 2049/581, 2049/5813, 2049/5817, 2049/582, 2049/5824, 2049/5827, 2049/5831, 2049/5834, 2049/5837, 2049/5841, 2049/5844, 2049/5848, 2049/5851, 2049/5855, 2049/5858, 2049/6018, 2049/6027, 2049/6036, 2049/6045, 2049/627, 2049/6607, 2049/6615, 2049/6623, 2049/6646, 2049/6653, 2049/6661, 2049/6669, 2049/6676, 2049/6684, 2049/6692, 2049/707, 2049/708
Warnings New:	B29C	49/00, 49/0005, 49/0006, 49/0015, 49/0021, 49/0022, 49/0023, 49/0024, 49/0025, 49/0027, 49/0028, 49/0029, 49/003, 49/0042, 49/006, 49/02, 49/0208, 49/04, 49/04102, 49/04104, 49/04106, 49/04108, 49/0411, 49/04116, 49/04118, 49/0412, 49/0665, 49/0685, 49/06905, 49/071, 49/08, 49/086, 49/087, 49/12, 49/1202, 49/1205, 49/1206, 49/1208, 49/121, 49/1218, 49/122, 49/16, 49/1602, 49/18, 49/1802, 49/20, 2049/2071, 49/22, 49/24, 2049/24302, 2049/24308, 2049/2442, 49/249, 49/251, 49/28, 49/28002, 49/28004, 49/28006, 49/28008, 49/28012, 49/42, 49/4205, 49/42051, 49/42065, 49/42069, 49/42071, 49/42073, 49/42093, 49/42113, 49/4236, 49/42362,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP010424

		49/4237, 49/42372, 49/42374, 49/42376, 49/42378, 49/42384, 49/42386, 49/42388, 49/4239, 49/42392, 49/42394, 49/42398, 49/42403, 49/42407, 49/42412, 49/42414, 49/4242, 49/4268, 49/427, 49/4273, 49/428, 49/42808, 49/42815, 49/42817, 49/4282, 49/42824, 49/42826, 49/42828, 49/4283, 49/4284, 49/42845, 49/4286, 49/42865, 49/4287, 2049/4296, 2049/4298, 2049/431, 49/46, 2049/4698, 2049/4699, 49/48, 49/48185, 2049/48615, 2049/4862, 2049/4863, 2049/4874, 2049/4881, 2049/4882, 2049/48825, 2049/4883, 49/56, 49/5601, 49/5605, 49/5606, 49/5607, 49/5608, 49/561, 49/5611, 49/5612, 49/5613, 49/5614, 2049/5631, 2049/5632, 2049/5633, 2049/5634, 2049/5635, 2049/5636, 2049/5661, 2049/5665, 2049/5666, 2049/5893, 2049/5898, 49/60, 2049/6091, 2049/6092, 49/62, 2049/6271, 49/64, 49/6419, 49/64195, 49/642, 49/6427, 49/645, 49/6452, 49/6458, 49/6462, 49/6464, 49/6465, 49/6466, 49/6467, 49/648, 49/66, 49/6604, 49/68, 49/681, 49/682, 49/6825, 49/683, 49/6835, 49/684, 49/6845, 49/685, 49/6855, 49/70, 2049/709, 49/76, 49/761, 49/78, 2049/7831, 2049/7832, 2049/7834, 2049/7835, 2049/7861, 2049/7864, 2049/7865, 2049/7866, 2049/7867, 2049/7868, 2049/787, 2049/7873, 2049/7874, 2049/7878, 2049/7879, 2049/788, 49/80, 2049/801, 2949/00, 2949/07, 2949/20, 2949/30
DEFINITIONS:		
Definitions Deleted:	B29C	49/0026, 49/0047, 49/0073, 49/0078, 49/0084, 49/022, 49/221, 49/421, 49/4215, 49/6481, 49/649, 49/78
Definitions New:	B29C	49/0006, 49/0022, 49/0023, 49/0024, 49/0025, 49/0027, 49/0028, 49/0029, 49/003, 49/006, 49/0062, 49/0064, 49/0208, 49/04102, 49/04104, 49/04106, 49/04108, 49/0411, 49/04114, 49/04116, 49/04118, 49/0412, 49/0665, 49/0685, 49/06905, 49/06912, 49/06914, 49/06916, 49/071, 49/086, 49/123, 49/1202, 49/1205, 49/1206, 49/1208, 49/1212, 49/1215, 49/1216, 49/1218, 49/1222, 49/1224, 49/1226, 49/1229, 49/1232, 49/1602, 49/1802, 2049/2071, 2049/2442, 49/249, 49/251, 49/28002, 49/28004, 49/28006, 49/28008, 49/28012, 49/42053,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP010424

		49/42055, 49/42057, 49/42059, 49/42061, 49/42063, 49/42065, 49/42069, 49/4207, 49/42075, 49/42077, 49/42079, 49/42081, 49/42083, 49/42085, 49/42087, 49/42089, 49/42091, 49/42095, 49/42097, 49/42099, 49/42101, 49/42103, 49/42105, 49/42107, 49/42111, 49/42115, 49/42117, 49/42121, 49/42122, 49/42155, 49/42362, 49/42374, 49/42376, 49/42384, 49/42386, 49/4239, 49/42407, 49/42409, 49/42412, 49/42413, 49/42416, 49/42421, 49/42422, 49/42424, 49/42426, 49/42428, 49/42442, 49/42444, 49/42446, 49/42448, 49/4245, 49/425, 49/4251, 49/42452, 49/42454, 49/427, 49/42802, 49/42806, 49/42809, 49/4281, 49/42815, 49/42824, 49/42826, 49/42828, 49/4283, 49/42832, 49/42834, 49/42836, 2049/4296, 2049/4298, 2049/431, 2049/4698, 49/4812, 49/48185, 49/4819, 2049/4854, 2049/48615, 2049/4862, 2049/4863, 49/487105, 2049/4881, 2049/48825, 2049/4883, 49/5602, 49/5603, 49/5604, 49/5605, 49/5606, 49/5607, 49/5608, 49/561, 49/5611, 49/5612, 49/5613, 49/5614, 2049/5631, 2049/5633, 2049/5634, 2049/5635, 2049/5636, 2049/5661, 2049/5662, 2049/5663, 2049/5664, 2049/5665, 2049/5666, 2049/5898, 2049/6091, 2049/6092, 2049/6271, 2049/6272, 49/6419, 49/64195, 49/642, 49/643, 49/6435, 49/645, 49/6452, 49/6458, 49/6462, 49/6464, 49/6465, 49/6466, 49/6467, 49/648, 49/6605, 49/66055, 2049/6606, 2049/671, 49/681, 49/682, 49/6825, 49/683, 49/6835, 49/684, 49/6845, 49/685, 49/6855, 2049/7831, 2049/7832, 2049/7833, 2049/7834, 2049/7835, 2049/7861, 2049/7862, 2049/7863, 2049/7864, 2049/78645, 2049/7865, 2049/7867, 2049/7868, 2049/78675, 2049/78705, 2049/7871, 2049/78715, 2049/7873, 2049/7874, 2049/78745, 2049/78765, 2049/7875, 2049/7876, 2049/7878, 2049/78805, 2049/7881, 2049/78815, 2049/7882, 2049/801,
Definitions Modified:	B29B	11/00, 11/14
	B29C	49/00, 49/0042, 49/04, 49/06, 49/12, 49/16, 49/18, 49/22, 49/24, 49/26, 49/42, 49/4205, 49/4242, 49/4247, 49/44, 49/46, 49/4802, 49/4815, 49/4817, 49/56, 49/58, 49/60, 49/62, 49/64, 49/6409, 49/6418,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP010424

		49/6427, 49/6436, 49/6445, 49/6454, 49/6463, 49/70, 49/76, 49/80
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The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL):

B29C51/105, B29C51/267, B29C45/1646, B29C45/1684, B29C48/00

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

- 3. REVISION CONCORDANCE LIST (RCL)
- 4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
- 5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

DATE: MAY 1, 2022

PROJECT RP10424

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS B29B – PREPARATION OR PRETREATMENT OF THE MATERIAL TO BE SHAPED; MAKING GRANULES OR PREFORMS; RECOVERY OF PLASTICS OR OTHER CONSTITUENTS OF WASTEMATERIAL CONTAINING PLASTICS**

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
D	B29B 2911/00	0	Indexing scheme related to making preforms for blow-moulding bottles or the like	<administrative transfer to B29C2949/07>
D	B29B 2911/14	1	Layer configuration, geometry, dimensions or physical properties of preforms for blow-moulding bottles or the like	<administrative transfer to B29C2949/07>
D	B29B 2911/14006	2	layer configuration	<administrative transfer to B29C2949/20>
D	B29B 2911/14013	3	monolayered	<administrative transfer to B29C2949/20>
D	B29B 2911/1402	4	at neck portion	<administrative transfer to B29C2949/22>
D	B29B 2911/14026	4	at flange portion	<administrative transfer to B29C2949/24>
D	B29B 2911/14033	4	at body portion	<administrative transfer to B29C2949/26>
D	B29B 2911/1404	4	at bottom portion	<administrative transfer to B29C2949/28>
D	B29B 2911/14046	3	multilayered	<administrative transfer to B29C2949/30>
D	B29B 2911/14053	4	at neck portion	<administrative transfer to B29C2949/3008>
D	B29B 2911/1406	5	partially	<administrative transfer to B29C2949/3009>
D	B29B 2911/14066	4	at flange portion	<administrative transfer to B29C2949/3012>
D	B29B 2911/14073	5	partially	<administrative transfer to B29C2949/3014>
D	B29B 2911/1408	4	at body portion	<administrative transfer to B29C2949/3016>
D	B29B 2911/14086	5	partially	<administrative transfer to B29C2949/3018>
D	B29B 2911/14093	4	at bottom portion	<administrative transfer to B29C2949/302>
D	B29B 2911/141	5	partially	<administrative transfer to B29C2949/3022>
D	B29B 2911/14106	4	having at least one layer	<administrative transfer to B29C2949/3024>
D	B29B 2911/14113	5	having at least two layers	<administrative transfer to B29C2949/3026>
D	B29B 2911/1412	6	having at least three layers	<administrative transfer to B29C2949/3028>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	Transferred to#
D	B29B 2911/14126	7	having more than three layers	<administrative transfer to B29C2949/303>
D	B29B 2911/14133	4	having at least one layer being injected	<administrative transfer to B29C2949/3032>
D	B29B 2911/1414	5	having at least two layers being injected	<administrative transfer to B29C2949/3034>
D	B29B 2911/14146	6	having at least three layers being injected	<administrative transfer to B29C2949/3036>
D	B29B 2911/14153	7	having more than three layers being injected	<administrative transfer to B29C2949/3038>
D	B29B 2911/1416	4	having at least one layer being extruded	<administrative transfer to B29C2949/3041>
D	B29B 2911/14166	5	having at least two layers being extruded	<administrative transfer to B29C2949/3042>
D	B29B 2911/14173	6	having at least three layers being extruded	<administrative transfer to B29C2949/3044>
D	B29B 2911/1418	7	having more than three layers being extruded	<administrative transfer to B29C2949/3046>
D	B29B 2911/14186	4	having at least one layer being thermoformed	<administrative transfer to B29C2949/3048>
D	B29B 2911/14193	5	having at least two layers being thermoformed	<administrative transfer to B29C2949/3051>
D	B29B 2911/142	6	having at least three layers being thermoformed	<administrative transfer to B29C2949/3052>
D	B29B 2911/14206	7	having more than three layers being thermoformed	<administrative transfer to B29C2949/3054>
D	B29B 2911/14213	4	having at least one layer being compression moulded	<administrative transfer to B29C2949/3056>
D	B29B 2911/1422	5	having at least two layers being compression moulded	<administrative transfer to B29C2949/3058>
D	B29B 2911/14226	6	having at least three layers being compression moulded	<administrative transfer to B29C2949/306>
D	B29B 2911/14233	7	having more than three layers being compression moulded	<administrative transfer to B29C2949/3062>
D	B29B 2911/1424	4	having at least one layer being applied using techniques not covered by B29B2911/14133 - B29B2911/14213	<administrative transfer to B29C2949/3064>
D	B29B 2911/14246	5	having at least two layers being applied using said techniques	<administrative transfer to B29C2949/3066>
D	B29B 2911/14253	6	having at least three layers being applied using said techniques	<administrative transfer to B29C2949/3068>
D	B29B 2911/1426	7	having more than three layers being applied using said techniques	<administrative transfer to B29C2949/307>
D	B29B 2911/14266	5	Type of said techniques not covered by B29B2911/14133 - B29B2911/14213	<administrative transfer to B29C2949/3064>
D	B29B 2911/14273	6	Spray coating	<administrative transfer to B29C2949/3078>
D	B29B 2911/1428	6	Dip coating	<administrative transfer to B29C2949/308>
D	B29B 2911/14286	6	Powder coating	<administrative transfer to B29C2949/3082>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
D	B29B 2911/14293	6	Casting	<administrative transfer to B29C2949/3084>
D	B29B 2911/143	4	Interaction between at least two layers	<administrative transfer to B29C2949/3086>
D	B29B 2911/14306	5	by welding	<administrative transfer to B29C2949/309>
D	B29B 2911/14313	5	by using adhesives	<administrative transfer to B29C2949/3092>
D	B29B 2911/1432	2	Geometry	<administrative transfer to B29C2949/07>
D	B29B 2911/14326	3	Variable wall thickness	<administrative transfer to B29C2949/072>
D	B29B 2911/14328	4	at neck portion	<administrative transfer to B29C2949/0722>
D	B29B 2911/1433	4	at flange portion	<administrative transfer to B29C2949/0723>
D	B29B 2911/14331	4	at body portion	<administrative transfer to B29C2949/0724>
D	B29B 2911/14332	4	at bottom portion	<administrative transfer to B29C2949/0725>
D	B29B 2911/14333	3	Variable diameter	<administrative transfer to B29C2949/073>
D	B29B 2911/14335	4	at neck portion	<administrative transfer to B29C2949/0731>
D	B29B 2911/14336	4	at flange portion	<administrative transfer to B29C2949/0732>
D	B29B 2911/14337	4	at body portion	<administrative transfer to B29C2949/0733>
D	B29B 2911/14338	4	at bottom portion	<administrative transfer to B29C2949/0734>
D	B29B 2911/1434	3	Ribs or protrusions	<administrative transfer to B29C2949/074>
D	B29B 2911/14341	4	at neck portion	<administrative transfer to B29C2949/0744>
D	B29B 2911/14343	4	at flange portion	<administrative transfer to B29C2949/0745>
D	B29B 2911/14344	4	at body portion	<administrative transfer to B29C2949/0746>
D	B29B 2911/14345	4	at bottom portion	<administrative transfer to B29C2949/0747>
D	B29B 2911/14346	3	Internal separating wall	<administrative transfer to B29C2949/075>
D	B29B 2911/14348	4	at neck portion	<administrative transfer to B29C2949/0751>
D	B29B 2911/1435	4	at flange portion	<administrative transfer to B29C2949/0752>
D	B29B 2911/14351	4	at body portion	<administrative transfer to B29C2949/0753>
D	B29B 2911/14352	4	at bottom portion	<administrative transfer to B29C2949/0754>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
D	B29B 2911/14353	3	Special shape	<administrative transfer to B29C2949/076>
D	B29B 2911/1436	4	Special overall shape	<administrative transfer to B29C2949/0761>
D	B29B 2911/14366	5	Conical	<administrative transfer to B29C2949/0762>
D	B29B 2911/14373	5	Axially asymmetrical	<administrative transfer to B29C2949/0763>
D	B29B 2911/1438	5	Elliptic or oval cross-section shape	<administrative transfer to B29C2949/0764>
D	B29B 2911/14386	5	Rectangular cross-section shape	<administrative transfer to B29C2949/0765>
D	B29B 2911/14393	5	Hexagonal cross-section shape	<administrative transfer to B29C2949/0766>
D	B29B 2911/144	5	Shape allows stacking or nesting	<administrative transfer to B29C2949/0767>
D	B29B 2911/14406	4	Special shape of specific parts of preform	<administrative transfer to B29C2949/0768>
D	B29B 2911/14413	5	Special lip, i.e. very top of preform neck	<administrative transfer to B29C2949/0769>
D	B29B 2911/1442	5	Special neck	<administrative transfer to B29C2949/077>
D	B29B 2911/14426	6	Wide-mouth	<administrative transfer to B29C2949/0771>
D	B29B 2911/14433	6	Closure retaining means	<administrative transfer to B29C2949/0772>
D	B29B 2911/1444	7	Threads	<administrative transfer to B29C2949/0773>
D	B29B 2911/14446	8	Interrupted threads	<administrative transfer to B29C2949/0774>
D	B29B 2911/14453	8	Inner threads	<administrative transfer to B29C2949/0775>
D	B29B 2911/1446	7	No threads	<administrative transfer to B29C2949/0776>
D	B29B 2911/14466	6	Tamper-evident band retaining ring	<administrative transfer to B29C2949/0777>
D	B29B 2911/14473	5	Special flange	<administrative transfer to B29C2949/0778>
D	B29B 2911/1448	5	Special body	<administrative transfer to B29C2949/0779>
D	B29B 2911/14486	5	Special bottom	<administrative transfer to B29C2949/078>
D	B29B 2911/14493	6	Special sprue, i.e. injection mark	<administrative transfer to B29C2949/0781>
D	B29B 2911/145	6	Special pinch-off portion	<administrative transfer to B29C2949/0782>
D	B29B 2911/14506	3	Auxiliary parts or inserts	<administrative transfer to B29C2949/079>
D	B29B 2911/14513	4	Handle	<administrative transfer to B29C2949/0791>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
D	B29B 2911/1452	4	Closure	<administrative transfer to B29C2949/0792>
D	B29B 2911/14526	4	Transport means	<administrative transfer to B29C2949/0793>
D	B29B 2911/14533	4	Dispensing spout	<administrative transfer to B29C2949/0794>
D	B29B 2911/1454	4	Parts to assist orientation of preform, e.g. in mould	<administrative transfer to B29C2949/0795>
D	B29B 2911/14546	5	at neck portion	<administrative transfer to B29C2949/0796>
D	B29B 2911/14553	5	at flange portion	<administrative transfer to B29C2949/0797>
D	B29B 2911/1456	5	at body portion	<administrative transfer to B29C2949/0798>
D	B29B 2911/14566	5	at bottom portion	<administrative transfer to B29C2949/0799>
D	B29B 2911/14573	4	Preform, i.e. neck, flange, body and bottom, made of several individual parts	<administrative transfer to B29C2949/08>
D	B29B 2911/1458	5	Finish neck ring	<administrative transfer to B29C2949/0801>
D	B29B 2911/14586	2	Mentioned dimensions	<administrative transfer to B29C2949/081>
D	B29B 2911/14593	3	Wall thickness	<administrative transfer to B29C2949/0811>
D	B29B 2911/146	4	of the lip, i.e. the very top of the preform neck	<administrative transfer to B29C2949/0812>
D	B29B 2911/14606	4	of the neck	<administrative transfer to B29C2949/0813>
D	B29B 2911/14613	4	of the threads	<administrative transfer to B29C2949/0814>
D	B29B 2911/1462	4	of the tamper-evident band retaining ring	<administrative transfer to B29C2949/0815>
D	B29B 2911/14626	4	of the flange	<administrative transfer to B29C2949/0816>
D	B29B 2911/14633	4	of the body	<administrative transfer to B29C2949/0817>
D	B29B 2911/1464	4	of the bottom	<administrative transfer to B29C2949/0818>
D	B29B 2911/14646	4	of a layer	<administrative transfer to B29C2949/0819>
D	B29B 2911/14653	3	Diameter, D	<administrative transfer to B29C2949/082>
D	B29B 2911/1466	4	of the lip, i.e. the very top of the preform neck	<administrative transfer to B29C2949/0821>
D	B29B 2911/14666	4	of the neck	<administrative transfer to B29C2949/0822>
D	B29B 2911/14673	4	of the threads	<administrative transfer to B29C2949/0823>
D	B29B 2911/1468	4	of the tamper-evident band retaining ring	<administrative transfer to B29C2949/0824>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
D	B29B 2911/14686	4	of the flange	<administrative transfer to B29C2949/0825>
D	B29B 2911/14693	4	of the body	<administrative transfer to B29C2949/0826>
D	B29B 2911/147	4	of the bottom	<administrative transfer to B29C2949/0827>
D	B29B 2911/14706	4	of a layer	<administrative transfer to B29C2949/0828>
D	B29B 2911/14713	3	Height, length, L	<administrative transfer to B29C2949/0829>
D	B29B 2911/1472	4	of the lip, i.e. the very top of the preform neck	<administrative transfer to B29C2949/083>
D	B29B 2911/14726	4	of the neck	<administrative transfer to B29C2949/0831>
D	B29B 2911/14733	4	of the threads	<administrative transfer to B29C2949/0832>
D	B29B 2911/1474	4	of the tamper-evident band retaining ring	<administrative transfer to B29C2949/0833>
D	B29B 2911/14746	4	of the flange	<administrative transfer to B29C2949/0834>
D	B29B 2911/14753	4	of the body	<administrative transfer to B29C2949/0835>
D	B29B 2911/1476	4	of the bottom	<administrative transfer to B29C2949/0836>
D	B29B 2911/14766	4	of a layer	<administrative transfer to B29C2949/0837>
D	B29B 2911/14773	3	Ratio L/D	<administrative transfer to B29C2949/0838>
D	B29B 2911/1478	3	Angle	<administrative transfer to B29C2949/0839>
D	B29B 2911/14786	4	of the lip, i.e. the very top of the preform neck	<administrative transfer to B29C2949/084>
D	B29B 2911/14793	4	of the neck	<administrative transfer to B29C2949/0841>
D	B29B 2911/148	4	of the threads	<administrative transfer to B29C2949/0842>
D	B29B 2911/14806	4	of the tamper-evident band retaining ring	<administrative transfer to B29C2949/0843>
D	B29B 2911/14813	4	of the flange	<administrative transfer to B29C2949/0844>
D	B29B 2911/1482	4	of the body	<administrative transfer to B29C2949/0845>
D	B29B 2911/14826	4	of the bottom	<administrative transfer to B29C2949/0846>
D	B29B 2911/14833	4	of a layer	<administrative transfer to B29C2949/0847>
D	B29B 2911/1484	3	Curvature, e.g. radius	<administrative transfer to B29C2949/0849>
D	B29B 2911/14846	4	of the lip, i.e. the very top of the preform neck	<administrative transfer to B29C2949/085>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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D	B29B 2911/14853	4	of the neck	<administrative transfer to B29C2949/0851>
D	B29B 2911/1486	4	of the threads	<administrative transfer to B29C2949/0852>
D	B29B 2911/14866	4	of the tamper-evident band retaining ring	<administrative transfer to B29C2949/0853>
D	B29B 2911/14873	4	of the flange	<administrative transfer to B29C2949/0854>
D	B29B 2911/1488	4	of the body	<administrative transfer to B29C2949/0855>
D	B29B 2911/14886	4	of the bottom	<administrative transfer to B29C2949/0856>
D	B29B 2911/14893	4	of a layer	<administrative transfer to B29C2949/086>
D	B29B 2911/149	2	Mentioned values not covered by B29B2911/14586	<administrative transfer to B29C2949/0861>
D	B29B 2911/14906	3	Crystallinity	<administrative transfer to B29C2949/0862>
D	B29B 2911/14913	4	at the neck portion	<administrative transfer to B29C2949/0863>
D	B29B 2911/1492	4	at the flange portion	<administrative transfer to B29C2949/0864>
D	B29B 2911/14926	4	at the body portion	<administrative transfer to B29C2949/0865>
D	B29B 2911/14933	4	at the bottom portion	<administrative transfer to B29C2949/0866>
D	B29B 2911/1494	3	Surface roughness	<administrative transfer to B29C2949/0867>
D	B29B 2911/14946	4	at the neck portion	<administrative transfer to B29C2949/0868>
D	B29B 2911/14953	4	at the flange portion	<administrative transfer to B29C2949/0869>
D	B29B 2911/1496	4	at the body portion	<administrative transfer to B29C2949/087>
D	B29B 2911/14966	4	at the bottom portion	<administrative transfer to B29C2949/0871>
D	B29B 2911/14973	3	Optical properties	<administrative transfer to B29K2995/0018>
D	B29B 2911/1498	3	Weight	<administrative transfer to B29C2949/0872>
D	B29B 2911/14986	3	Composition	<administrative transfer to B29C 49/0005>
D	B29B 2911/14993	4	Recycled material	<administrative transfer to B29K2105/26>

DATE: MAY 1, 2022

PROJECT RP10424

SUBCLASS B29C – SHAPING OR JOINING OF PLASTICS; SHAPING OF MATERIAL IN A PLASTIC STATE, NOT OTHERWISE PROVIDED FOR; AFTER-TREATMENT OF THE SHAPED PRODUCTS, e.g. REPAIRING (.....)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to[#]</u>
C	B29C 49/00	0	Blow-moulding, i.e. blowing a preform or parison to a desired shape within a mould; Apparatus therefor	B29C 49/00, B29C 49/006, B29C 49/0062, B29C 49/0064
C	B29C 49/0005	1	{characterised by the material}	B29C 49/0005, B29C49/0006
N	B29C 49/0006	2	{for heating or cooling}	
D	B29C 2049/001	2	{The material comprising particles or additives to induce special properties in the preform}	<administrative transfer to B29C 49/0005>
C	B29C 49/0015	1	{Making articles of indefinite length, e.g. corrugated tubes }	B29C 49/0015, B29C 49/0021, B29C 49/0022, B29C 49/0023, B29C 49/0024, B29C 49/0025, B29C 49/0027, B29C 49/0028, B29C 49/0029, B29C 49/003
C	B29C 49/0021	2	{using moulds or mould parts movable in a closed path, e.g. mounted on movable endless supports }	B29C 49/0021, B29C 49/0022, B29C 49/0023, B29C 49/0024, B29C 49/0025, B29C 49/0027, B29C 49/0028, B29C 49/0029, B29C 49/003
N	B29C 49/0022	3	{characterised by mould return means }	
N	B29C 49/0023	2	{using adjustable machine tables, e.g. to align extrusion nozzles with the moulds }	
N	B29C 49/0024	2	{using varying mould speed }	
N	B29C 49/0025	2	{subsequent mould cavities being different, e.g. for making bells }	
D	B29C 49/0026	3	{using independent mould parts, i.e. the mould parts not being interconnected, e.g. for speeding up the transfer of the moulds to the beginning of the moulding area }	<administrative transfer to B29C 49/0021>
N	B29C 49/0027	2	{involving the change of moulds, e.g. in production processes without interrupting the production processes }	
N	B29C 49/0028	2	{using variable forming length, e.g. adapted to cooling needs }	
N	B29C 49/0029	2	{wherein the process is characterised by the pressure used, e.g. using varying pressure depending on sequence of cavity shapes }	
N	B29C 49/003	2	{wherein the process is characterised by temperature conditioning, e.g. using inside cooling by air }	
M	B29C 49/0031	1	{Making articles having hollow walls }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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D	B29C 2049/0036	2	{by ballooning the parison in an open mould }	<administrative transfer to B29C 49/1602>
C	B29C 49/0042	1	{without using a mould (B29C 49/1602 takes precedence)}	B29C 49/0042, B29C 49/1602
D	B29C 49/0047	1	{Sheet blow-moulding, i.e. using at least two parallel sheets or a folded sheet as a preform}	<administrative transfer to B29C 49/0691>
D	B29C 2049/0052	2	{using a folded sheet as a preform}	<administrative transfer to B29C 49/06912>
D	B29C 2049/0057	2	{using two parallel sheets as a preform}	<administrative transfer to B29C 49/06914>
N	B29C 49/006	1	{Blow-moulding plants, e.g. using several blow-moulding apparatuses cooperating}	
N	B29C 49/0062	2	{using two or more parallel stations, e.g. two parallel heating or blowing stations}	
D	B29C 2049/0063	2	{whereby the folded sheets or the two parallel sheets are separated from each other at least at one place, e.g. to allow inserting of a blowing means}	<administrative transfer to B29C 49/06916>
N	B29C 49/0064	3	{the number of preform manufacturing stations being different to the number of blowing stations}	
D	B29C 2049/0068	2	{Means for avoiding the sheets to stick together before or during the blow moulding operation}	<administrative transfer to B29C 49/06916>
D	B29C 49/0073	1	{characterised by the parison configuration, e.g. nestable (B29C49/22 takes precedence)}	<administrative transfer to B29C 49/071>
D	B29C 49/0078	2	{Parisons having internal or external ribs }	<administrative transfer to B29C2949/074>
D	B29C 49/0084	3	{the internal ribs being connected to the opposite wall, e.g. forming an internal separating wall}	<administrative transfer to B29C2949/075>
D	B29C 2049/0089	2	{the parison being a tube, e.g. a tube which has to be reheated before blow moulding }	<administrative transfer to B29C2949/08>
D	B29C 2049/0094	1	{Blow moulding plants, e.g. using at least two blow moulding apparatuses at the same time}	<administrative transfer to B29C 49/006>
C	B29C 49/02	1	Combined blow-moulding and manufacture of the preform or the parison	B29C 49/02, B29C 49/0208, B29C 49/0665, B29C 49/0685, B29C 49/06905, B29C 49/0691, B29C 49/06912, B29C 49/06914, B29C 49/06916 B29C 49/071

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 49/0208	2	{joining several separate preforms while blow-moulding, e.g. two cylindrical preforms welded together during blowing }	
D	B29C 2049/021	2	{the preform or parison being made out of several parts, e.g. by welding or gluing parts together }	<administrative transfer to B29C2949/08>
D	B29C 49/022	2	{the parison being partly injected and partly extruded }	<administrative transfer to B29C2949/3032 and B29C2949/3041 simultaneously>
D	B29C 2049/025	2	{the preform or parison being made of powder }	<administrative transfer to B29C 49/02>
D	B29C 2049/026	2	{Coating a preform or parison, e.g. with reinforcing material }	<administrative transfer to B29C2949/3074>
D	B29C 2049/027	3	{on the inside }	<administrative transfer to B29C2949/3076>
D	B29C 2049/028	2	{Compression blow-moulding }	<administrative transfer to B29C 49/0685>
C	B29C 49/04	2	Extrusion blow-moulding	B29C 49/04, B29C 49/04102, B29C 49/04104, B29C 49/04106, B29C 49/04108, B29C 49/0411, B29C 49/04112, B29C 49/04114, B29C 49/04116, B29C 49/04118, B29C 49/0412
T	B29C 49/041	3	{using an accumulator head }	
N	B29C 49/04102	3	{extruding the material continuously }	
N	B29C 49/04104	3	{extruding the material discontinuously }	
N	B29C 49/04106	3	{Means for moving the extruder head up and down, e.g. to continue extruding the next parison while blow-moulding the previous parison in the blow-mould }	
N	B29C 49/04108	3	{extruding several parisons parallel to each other at the same time }	
N	B29C 49/0411	3	{Means for defining the wall or layer thickness }	
N	B29C 49/04112	4	{for varying the thickness }	
N	B29C 49/04114	4	{for keeping constant thickness }	
N	B29C 49/04116	3	{characterised by the die }	
N	B29C 49/04118	3	{Means for supporting the extruded parison }	
N	B29C 49/0412	3	{Means for cutting the extruded preform }	
D	B29C 2049/042	4	{disclosing the push out speed }	<administrative transfer to B29C 49/041>
D	B29C 2049/044	3	{extruding the material continuously }	<administrative transfer to B29C 49/04102>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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D	B29C 2049/045	4	{ with means to move the extruder head up and down, e.g. to continue extruding the next parison while blow moulding the previous parison in the blow mould }	<administrative transfer to B29C 49/04106>
D	B29C 2049/047	3	{ extruding the material discontinuously }	<administrative transfer to B29C 49/04104>
D	B29C 2049/048	3	{ extruding several parisons parallel to each other at the same time }	<administrative transfer to B29C 49/04108>
T	B29C 49/06	2	Injection blow-moulding	
M	B29C 2049/065	3	{ Means for compensating or avoiding the shrinking of preforms, e.g. in the injection mould or outside the injection mould }	
D	B29C 2049/066	3	{ One injection moulding station supplies several blow moulding stations with preforms }	<administrative transfer to B29C 49/0064>
N	B29C 49/0665	3	{ the injection mould cavity and the blow-mould cavity being displaceable to the geometrically fixed injection core mould }	
D	B29C 2049/067	3	{ Several injection moulding stations supply one blow moulding station with preforms }	<administrative transfer to B29C 49/0064>
D	B29C 2049/068	3	{ Moving the injection mould cavity and blow mould cavity to the geometrically fixed injection core mould }	<administrative transfer to B29C 49/0665>
N	B29C 49/0685	2	{ Compression blow-moulding }	
D	B29C 2049/069	3	{ using a porous core }	<administrative transfer to B29C 49/06>
N	B29C 49/06905	2	{ Using combined techniques for making the preform }	
N	B29C 49/0691	3	{ using sheet like material, e.g. sheet blow-moulding from joined sheets }	
N	B29C 49/06912	4	{ using folded sheets as a preform, e.g. folded into parallel sheets or rolled into cylindrical shape }	
N	B29C 49/06914	4	{ using parallel sheets as a preform }	
N	B29C 49/06916	4	{ Means for avoiding parts of the sheets to stick together, e.g. to provide blow opening }	
N	B29C 49/071	1	{ Preforms or parisons characterised by their configuration, e.g. geometry, dimensions or physical properties }	
C	B29C 49/08	1	Biaxial stretching during blow-moulding	B29C 49/08, B29C 49/086, B29C 49/087, B29C 49/0871, B29C 49/0872
M	B29C 49/085	2	{ without pre-stretching, e.g. simple blowing step }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 49/086	2	{ mono-axial stretching, e.g. either length or width }	
N	B29C 49/087	2	{ Means for providing controlled or limited stretch ratio }	
N	B29C 49/0871	3	{ radial stretch ratio, i.e. hoop or tangential stretch ratio }	
N	B29C 49/0872	3	{ axial stretch ratio }	
C	B29C 49/12	3	Stretching rods	B29C 49/12, B29C 49/1202, B29C 49/1205, B29C 49/1206, B29C 49/1208, B29C 49/121, B29C 49/1212, B29C 49/1215, B29C 49/1216, B29C 49/1218, B29C 49/122, B29C 49/1222, B29C 49/1224, B29C 49/1226, B29C 49/1229, B29C 49/123, B29C 49/1232, B29C 49/1602
N	B29C 49/1202	4	{ Means for fixing the stretching rod to the driving means, e.g. clamping means or bayonet connections }	
D	B29C 2049/1204	4	{ Means for fixing the stretching rod to the driving means, e.g. clamping means or bayonet connections }	<administrative transfer to B29C 49/1202>
N	B29C 49/1205	4	{ relative rotation between the preform and the stretch rod }	
N	B29C 49/1206	4	{ using at least two stretching rods for stretching different parts of the preform }	
N	B29C 49/1208	4	{ using additional means to clamp the preform bottom while stretching the preform }	
D	B29C 2049/1209	4	{ rotating during stretching of the preform }	<administrative transfer to B29C 49/1205>
N	B29C 49/121	4	{ Stretching rod configuration, e.g. geometry; Stretching rod material }	
N	B29C 49/1212	5	{ the stretching rod comprising at least one opening on the surface, e.g. through which compressed air is blown into the preform to expand the same }	
D	B29C 2049/1214	4	{ Using at least two stretching rods for stretching different parts of the preform }	<administrative transfer to B29C 49/1206>
N	B29C 49/1215	5	{ Geometry of the stretching rod, e.g. specific stretching rod end shape }	
N	B29C 49/1216	5	{ Material for stretching rods or parts thereof, e.g. heat insulating material }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 49/1218	4	{to stretch heated tubes }	
D	B29C 2049/1219	4	{Using additional means to clamp the preform bottom while stretching the preform}	<administrative transfer to B29C 49/1208>
N	B29C 49/122	3	{Drive means therefor}	
N	B29C 49/1222	4	{Pneumatic }	
D	B29C 2049/1223	4	{Stretching rod configuration, e.g. geometry; Stretching rod material}	<administrative transfer to B29C 49/121>
N	B29C 49/1224	4	{Hydraulic }	
N	B29C 49/1226	4	{Mechanical }	
D	B29C 2049/1228	5	{the stretching rod comprises at least one opening on the surface through which compressed air is blown into the preform to expand the same }	<administrative transfer to B29C 49/1212>
N	B29C 49/1229	4	{being a cam mechanism}	
N	B29C 49/123	4	{Electric drives, e.g. linear motors }	
N	B29C 49/1232	4	{Magnetic }	
D	B29C 2049/1233	6	{the opening being at the end where it touches the preform, e.g. to avoid direct contact between the preform and the stretching rod }	<administrative transfer to B29C 49/1212>
D	B29C 2049/1238	5	{Geometry of the stretching rod, e.g. specific stretching rod end shape }	<administrative transfer to B29C 49/1215>
D	B29C 2049/1242	5	{Material for parts or the whole stretching rod, e.g. heat insulating material}	<administrative transfer to B29C 49/1216>
D	B29C 2049/1247	4	{to stretch heated tubes }	<administrative transfer to B29C 49/1218>
D	B29C 2049/1252	4	{Drive means therefore }	<administrative transfer to B29C 49/122>
D	B29C 2049/1257	5	{Pneumatic }	<administrative transfer to B29C 49/1222>
D	B29C 2049/1261	5	{Hydraulic }	<administrative transfer to B29C 49/1224>
D	B29C 2049/1266	5	{Mechanical }	<administrative transfer to B29C 49/1226>
D	B29C 2049/1271	6	{being a cam mechanism}	<administrative transfer to B29C 49/1229>
D	B29C 2049/1276	7	{adaptable to different sized stretching rods }	<administrative transfer to B29C 49/1229>
D	B29C 2049/128	6	{being a toggle mechanism}	<administrative transfer to B29C 49/1229>
D	B29C 2049/1285	6	{being a spindle nut mechanism}	<administrative transfer to B29C 49/1229>
D	B29C 2049/129	5	{Electric direct drives, e.g. linear motors }	<administrative transfer to B29C 49/123>
D	B29C 2049/1295	5	{Magnetic }	<administrative transfer to B29C 49/1232>
C	B29C 49/16	2	using pressure difference { for pre-stretching }, e.g. pre-blowing	B29C 49/16, B29C 49/1602
N	B29C 49/1602	3	{pre-blowing without using a mould }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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D	B29C 2049/165	3		<administrative transfer to B29C 49/1602>
C	B29C 49/18	1	using several blowing steps (B29C 49/16 takes precedence)	B29C 49/18, B29C 49/1802
N	B29C 49/1802	2	{the first mould cavity being bigger than a second mould cavity}	
D	B29C 49/185	2	{in different mould cavities}	<administrative transfer to B29C 49/18>
C	B29C 49/20	1	of articles having inserts or reinforcements ; Handling of inserts or reinforcements }	B29C 49/20, B29C 2049/2071,
D	B29C 2049/2004	2	{with a specific location of the inserts or reinforcements in or on the final article }	<administrative transfer to B29C 49/20>
M	B29C 2049/2008	2	{inside the article }	
M	B29C 2049/2013	3	{for connecting opposite walls, e.g. baffles in a fuel tank }	
M	B29C 2049/2017	2	{outside the article }	
M	B29C 2049/2021	2	{Inserts characterised by the material or type }	
M	B29C 2049/2069	3	{moulded in combination, e.g. injection moulded in the same mould before or after blow-moulding }	
N	B29C 2049/2071	3	{comprising electronic elements or detection means, e.g. chips, RFIDs or barcodes }	
M	B29C 2049/2086	2	{Means for verifying or keeping the position of the insert, e.g. sensors, or attachment on mould wall }	
D	B29C 2049/2091	2	{Means for avoiding cooling of the inserts where the inserts touch the preform or the mould }	<administrative transfer to B29C49/20>
M	B29C 2049/2095	2	{Means for preparing or treating the inserts, e.g. cutting, deforming, heating, cooling or applying adhesives }	
C	B29C 49/22	1	using multilayered preforms or parisons	B29C 49/22, B29C 2949/00
D	B29C 49/221	2	{at least one layer being injected (injection moulding of multilayered parisons B29C 45/1643, B29C 45/1646)}	<administrative transfer to B29C2949/3032>
D	B29C 2049/224	3	{neck portion }	<administrative transfer to B29C2949/3008 and B29C2949/20 simultaneously>
D	B29C 2049/225	3	{body portion }	<administrative transfer to B29C2949/3016 and B29C2949/20 simultaneously>
D	B29C 2049/227	2	{with particular bonding between the layers }	<administrative transfer to B29C2949/3088>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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D	B29C 2049/228	2	{ at least one layer has a variable thickness }	<administrative transfer to B29C2949/072 and B29C2949/30 simultaneously>
C	B29C 49/24	1	Lining or labelling	B29C 49/24, B29C 2049/24302, B29C 2049/24304, B29C 2049/24306, B29C 2049/24308, B29C 2049/2442, B29C 49/249, B29C 49/251
D	B29C 2049/2402	2	{ lining articles }	<administrative transfer to B29C 49/251>
T	B29C 2049/2404	2	{ inside the article }	
D	B29C 2049/2406	4	{ the lining being used to line a previously coated mould }	<administrative transfer to B29C 2049/2404>
T	B29C 49/2408	2	{ In-mould lining or labelling }	
D	B29C 2049/241	2	{ In-mould labelling }	<administrative transfer to B29C 49/2408>
M	B29C 2049/2412	2	{ outside the article }	
T	B29C 2049/2414	2	{ Linings or labels, e.g. specific geometry, multi-layered or material }	
D	B29C 2049/2416	3	{ Specific shapes or geometries }	<administrative transfer to B29C 2049/2414>
D	B29C 2049/2418	4	{ Double folded labels }	<administrative transfer to B29C 2049/2414>
D	B29C 2049/242	4	{ Labels have round edges }	<administrative transfer to B29C 2049/2414>
M	B29C 2049/2422	3	{ Cylindrical or sleeve shaped linings or labels }	
T	B29C 2049/2425	3	{ Perforated, corrugated or embossed labels }	
D	B29C 2049/2427	4	{ Corrugated or embossed labels }	<administrative transfer to B29C 2049/2425>
U	B29C 2049/2429	3	{ Multilayered labels }	
N	B29C 2049/24302	3	{ Label materials }	
N	B29C 2049/24304	4	{ using identical material for the label and the preform }	
N	B29C 2049/24306	4	{ using different material for the label and the preform }	
N	B29C 2049/24308	3	{ comprising electronic elements or detection means, e.g. chips, RFIDs or barcodes }	
M	B29C 2049/2431	2	{ Means for preparing or treating the label or lining, e.g. cutting, deforming, heating or applying adhesive }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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M	B29C 2049/2433	3	{ Heating or applying adhesive }	
M	B29C 2049/2435	4	{ in a specific pattern }	
M	B29C 2049/2437	3	{ Cutting }	
M	B29C 2049/2439	4	{ by means in the mould cavity }	
T	B29C 2049/2441	3	{ Deforming }	
N	B29C 2049/2442	4	{ while blow-moulding, e.g. the preform expansion deforms the label or lining }	
M	B29C 2049/2443	2	{ Means for feeding the lining or label into the mould, preform or parison, e.g. grippers }	
M	B29C 2049/2458	2	{ Driving or transporting means related to lining or labelling }	
M	B29C 2049/246	3	{ Cams }	
M	B29C 2049/2462	3	{ Conveyor belts }	
M	B29C 2049/2464	2	{ Means for verifying or keeping the position of the lining or label, e.g. sensors, or attachment on mould wall }	
D	B29C 2049/2477	2	{ Deforming linings or the labels during blow moulding }	<administrative transfer to B29C 2049/2442>
U	B29C 2049/2487	3	{ comprising a rotary movement }	
D	B29C 2049/2489	2	{ Folding the label around the edges of the final blow moulded article, e.g. via mould closing or via additional means }	<administrative transfer to B29C 2049/2441>
N	B29C 49/249	2	{ explicit labelling }	
D	B29C 2049/2491	2	{ Label materials }	<administrative transfer to B29C 2049/24302>
D	B29C 2049/2493	3	{ using identical material for the label and the preform }	<administrative transfer to B29C 2049/24304>
D	B29C 2049/2495	3	{ using different material for the label and the preform }	<administrative transfer to B29C 2049/24306>
D	B29C 2049/2497	3	{ Labels comprising data carriers or detection means, e.g. chips, RFIDs, antennas }	<administrative transfer to B29C 2049/24308>
N	B29C 49/251	2	{ explicit lining (B29C 49/26 takes precedence) }	
U	B29C 49/26	2	inner lining of tubes	
C	B29C 49/28	1	Blow-moulding apparatus	B29C 49/28, B29C 49/28002, B29C 49/28004, B29C 49/28006, B29C 49/28008, B29C 49/28012

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 49/28002	2	{designed for reduced size or for experiments, e.g. lower inertia, transportable or experimental apparatus}	
N	B29C 49/28004	2	{designed for easy access by operator}	
N	B29C 49/28006	2	{having special frame}	
N	B29C 49/28008	2	{mounting, exchanging or centering machine parts, e.g. modular parts}	
N	B29C 49/28012	2	{using several moulds whereby at least one mould is different in at least one feature, e.g. size or shape (B29C 49/0025 takes precedence)}	
D	B29C 2049/283	2	{configured to easily exchange modules, e.g. heating or feeding module}	<administrative transfer to B29C 49/28008>
D	B29C 2049/286	2	{using several moulds whereby at least one mould is different from a plurality of identical moulds in at least one feature, e.g. size or shape}	<administrative transfer to B29C 49/28012>
U	B29C 49/30	2	having movable moulds or mould parts	
C	B29C 49/42	1	Component parts, details or accessories; Auxiliary operations	B29C 49/42, B29C 49/42378, B29C 49/4238, B29C 49/42382, B29C 49/42384, B29C 49/42386, B29C 49/42388, B29C 49/4239, B29C 49/42392, B29C 49/42394, B29C 49/42396, B29C 49/42398, B29C 49/424, B29C 49/42402, B29C 49/42403, B29C 49/42405, B29C 49/42407, B29C 49/42408, B29C 49/42409, B29C 49/4241, B29C 49/42412, B29C 49/42413, B29C 49/42414, B29C 49/42416, B29C 49/42418, B29C 49/4242, B29C 49/42421, B29C 49/42422, B29C 49/42424, B29C 49/42426, B29C 49/42428, B29C 49/4244, B29C 49/42442,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in { curly brackets }**</u>	<u>Transferred to#</u>
				B29C 49/42444, B29C 49/42446, B29C 49/42448, B29C 49/4245, B29C 49/42452, B29C 49/42454, B29C 49/425, B29C 49/4251, B29C 49/427, B29C 49/428, B29C 49/42802, B29C 49/42806, B29C 49/42808, B29C 49/42809, B29C 49/4281, B29C 49/42811, B29C 49/42815, B29C 49/42817, B29C 49/4282, B29C 49/42822, B29C 49/42824, B29C 49/42826, B29C 49/42828, B29C 49/4283, B29C 49/42832, B29C 49/42834, B29C 49/42836, B29C 49/42845, B29C 49/4285, B29C 49/42855, B29C 49/4286, B29C 49/42865, B29C 49/4287, B29C 2049/4296, B29C 2049/4298, B29C 2049/431
C	B29C 49/4205	2	{ Handling means, e.g. transfer, loading or discharging means (handling of inserts or reinforcements B29C 49/20; handling of linings or labels B29C 49/2408)}	B29C 49/4205, B29C 49/42051, B29C 49/42053, B29C 49/42055, B29C 49/42057, B29C 49/42059, B29C 49/42061, B29C 49/42063, B29C 49/42065, B29C 49/42067, B29C 49/42069, B29C 49/4207, B29C 49/42071, B29C 49/42073, B29C 49/42075, B29C 49/42077,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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				B29C 49/42079, B29C 49/42081, B29C 49/42083, B29C 49/42085, B29C 49/42087, B29C 49/42089, B29C 49/42091, B29C 49/42093, B29C 49/42095, B29C 49/42097, B29C 49/42099, B29C 49/42101, B29C 49/42103, B29C 49/42105, B29C 49/42107, B29C 49/42109, B29C 49/42111, B29C 49/42113, B29C 49/42115, B29C 49/42117, B29C 49/42119, B29C 49/42121, B29C 49/42155
N	B29C 49/42051	3	{ Means for stripping, aligning or de-stacking }	
N	B29C 49/42053	4	{ Stripping preforms from moulds, e.g. from injection moulds or cores }	
N	B29C 49/42055	4	{ De-stacking preforms, e.g. delivered in a stacked configuration }	
N	B29C 49/42057	4	{ Aligning disorderly arranged preforms, e.g. delivered disorderly }	
N	B29C 49/42059	4	{ Aligning of preforms getting stuck, unaligned or stacked during transport }	
N	B29C 49/42061	4	{ Means for correcting, aligning or straighten preforms, e.g. gripper with correcting means }	
N	B29C 49/42063	5	{ in relation to the mould, e.g. preform centring means in the mould }	
N	B29C 49/42065	3	{ Means specially adapted for transporting preforms }	
N	B29C 49/42067	4	{ Extruded preforms, e.g. providing means for avoiding deformation of the soft preform }	
N	B29C 49/42069	3	{ Means explicitly adapted for transporting blown article }	
N	B29C 49/4207	4	{ with stacking means, e.g. stacking the articles for further transport }	
N	B29C 49/42071	3	{ Temperature conditioned transport, e.g. insulated or heated transport means }	
N	B29C 49/42073	3	{ Grippers }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 49/42075	4	{ with pivoting clamps }	
N	B29C 49/42077	4	{ with U-shaped holder }	
N	B29C 49/42079	4	{ using vacuum for gripping }	
N	B29C 49/42081	4	{ adjustable for different preforms size }	
N	B29C 49/42083	4	{ being inflatable }	
N	B29C 49/42085	4	{ holding inside the neck }	
N	B29C 49/42087	4	{ holding outside the neck }	
N	B29C 49/42089	4	{ holding body portion }	
N	B29C 49/42091	4	{ holding bottom portion or sprue }	
N	B29C 49/42093	3	{ Transporting apparatus, e.g. slides, wheels or conveyors }	
N	B29C 49/42095	4	{ Rotating wheels or stars }	
N	B29C 49/42097	4	{ Sliding rails, e.g. inclined }	
N	B29C 49/42099	5	{ Pushing by air }	
D	B29C 49/421	3	{ for blown articles }	<administrative transfer to B29C 49/42069>
N	B29C 49/42101	4	{ Conveyors, e.g. flat conveyor or clamping between two bands }	
N	B29C 49/42103	4	{ Vacuum suction pipes }	
N	B29C 49/42105	4	{ for discontinuous or batch transport }	
N	B29C 49/42107	4	{ with accumulator or temporary storage, e.g. while waiting for the blowing apparatus }	
N	B29C 49/42109	5	{ keeping temperature of accumulated preforms or articles, e.g. the accumulator being an oven }	
N	B29C 49/42111	4	{ with changeable transporting paths or lengths }	
N	B29C 49/42113	3	{ Means for manipulating the objects' position or orientation }	
N	B29C 49/42115	4	{ Inversion, e.g. turning preform upside down }	
N	B29C 49/42117	4	{ Translation e.g. telescopic movement to pick up a preform }	
N	B29C 49/42119	4	{ Rotation, e.g. rotating a predetermined angle for asymmetric preform or with asymmetric heat profile }	
N	B29C 49/42121	4	{ Changing the center-center distance }	
N	B29C 49/42122	5	{ Adapting to blow-mould cavity center-center distance }	
D	B29C 49/4215	3	{ for increasing the space between preforms, e.g. in order to perform the blow moulding step }	<administrative transfer to B29C 49/42122>
N	B29C 49/42155	4	{ Keeping center-center distance constant }	
D	B29C 2049/4221	3	{ for transferring at least two preforms to the mould }	<administrative transfer to B29C 49/42105>
D	B29C 2049/4226	3	{ for orienting preforms in the mould, e.g. depending on their heat profile }	<administrative transfer to B29C 49/42119>
D	B29C 2049/4231	3	{ for aligning disorderly arranged preforms }	<administrative transfer to B29C 49/42057>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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C	B29C 49/4236	2	{ Drive means }	B29C 49/4236, B29C 49/42362, B29C 49/4237, B29C 49/42372, B29C 49/42374, B29C 49/42376
N	B29C 49/42362	3	{ Electric drive means, e.g. servomotors }	
N	B29C 49/4237	3	{ Pneumatic drive means }	
N	B29C 49/42372	3	{ Hydraulic drive means }	
N	B29C 49/42374	3	{ for the extruder, e.g. extruder moving up and down }	
N	B29C 49/42376	3	{ for moulds other than opening, closing and clamping }	
N	B29C 49/42378	2	{ Handling malfunction }	
N	B29C 49/4238	3	{ Ejecting defective preforms or products }	
N	B29C 49/42382	3	{ Stopping at least a part of the machine }	
N	B29C 49/42384	2	{ Safety, e.g. operator safety }	
N	B29C 49/42386	2	{ Improving flash formation, e.g. providing for easily removable flash from extrusion moulded articles }	
N	B29C 49/42388	2	{ Eliminating electric charge }	
N	B29C 49/4239	2	{ Avoiding condense, e.g. on cooled mould surfaces }	
N	B29C 49/42392	2	{ Avoiding marks or scratches, e.g. mould marks }	
N	B29C 49/42394	2	{ Providing specific wall thickness }	
N	B29C 49/42396	3	{ Avoiding excessive thickness differences, e.g. thinning of corners }	
N	B29C 49/42398	2	{ Simulation of the blow-moulding process }	
N	B29C 49/424	3	{ Simulation of the preform conditioning process }	
N	B29C 49/42402	3	{ Simulation of the shaping process }	
N	B29C 49/42403	2	{ Purging or cleaning the blow-moulding apparatus }	
N	B29C 49/42405	3	{ Sterilizing }	
N	B29C 49/42407	2	{ Procedures for start-up or material change }	
N	B29C 49/42408	3	{ Temperature conditioning, e.g. pre-heating of the moulds }	
N	B29C 49/42409	3	{ Special pressurization during start-up of the machine }	
N	B29C 49/4241	3	{ Material change }	
N	B29C 49/42412	2	{ Marking or printing }	
N	B29C 49/42413	3	{ with a pattern for analysing deformation }	
N	B29C 49/42414	2	{ Treatment of preforms, e.g. cleaning or spraying water for improved heat transfer }	
N	B29C 49/42416	3	{ Purging or cleaning the preforms }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 49/42418	4	{ for sterilizing }	
T	B29C 49/4242	2	{ Means for deforming the parison prior to the blowing operation (B29C49/08 takes precedence) }	
N	B29C 49/42421	3	{ before laying into the mould }	
N	B29C 49/42422	4	{ by the preform transporting means }	
N	B29C 49/42424	4	{ Deforming or closing the preformends, e.g. pinching and welding }	
N	B29C 49/42426	4	{ by pressure difference deforming parts of the preform }	
N	B29C 49/42428	4	{ in a separate pre-moulding station }	
N	B29C 49/4244	3	{ during or after laying preform into the final mould }	
N	B29C 49/42442	4	{ by moving the extruder head }	
N	B29C 49/42444	4	{ by moving the transport means }	
N	B29C 49/42446	4	{ by using a robot arm or similar actuator }	
N	B29C 49/42448	4	{ by moving the mould }	
N	B29C 49/4245	4	{ aided by air floating }	
N	B29C 49/42452	4	{ The mould opening plane being horizontal }	
N	B29C 49/42454	4	{ The mould opening plane being vertical }	
M	B29C 49/4247	3	{ using spreading or extending means }	
N	B29C 49/425	4	{ rods or bars entering the preform }	
N	B29C 49/4251	3	{ by foaming }	
M	B29C 49/4252	2	{ Auxiliary operations prior to the blow-moulding operation not otherwise provided for }	
D	B29C 2049/4257	3	{ Means for heating the mould cavity surface from the side of the cavity, e.g. putting an external heating member between the mould halves }	<administrative transfer to B29C 2049/4854>
D	B29C 2049/4263	4	{ using flames }	<administrative transfer to B29C 2049/4854>
T	B29C 49/4268	2	{ Auxiliary operations during the blow-moulding operation }	
N	B29C 49/427	3	{ Auxiliary deformation, i.e. not caused by pre-stretching or blowing not otherwise provided for }	
T	B29C 49/4273	2	{ Auxiliary operations after the blow-moulding operation not otherwise provided for }	
M	B29C 49/4278	3	{ Cutting }	
N	B29C 49/428	3	{ Joining }	
N	B29C 49/42802	4	{ a closure or a sealing foil to the article or pinching the opening }	
N	B29C 49/42806	4	{ auxiliary parts to the article, e.g. handle (B29C 49/42802 takes precedence) }	
N	B29C 49/42808	3	{ Filling the article }	
N	B29C 49/42809	4	{ while in the mould, i.e. with other material than the blowing fluid }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 49/4281	4	{outside the mould }	
N	B29C 49/42811	4	{Introducing an auxiliary material not being the content, e.g. foamable material in a hollow wall section}	
N	B29C 49/42815	3	{Emptying the article, e.g. emptying hydraulic blowing fluid }	
N	B29C 49/42817	3	{Drying the article }	
N	B29C 49/4282	3	{Purging or cleaning the article }	
N	B29C 49/42822	4	{Sterilizing the article }	
N	B29C 49/42824	3	{Cooling the article outside the mould }	
N	B29C 49/42826	3	{Separating burr or other part from the article, e.g. using mechanical means }	
N	B29C 49/42828	3	{Coating or painting the article }	
N	B29C 49/4283	3	{Deforming the finished article }	
N	B29C 49/42832	4	{Moving or inverting sections, e.g. inverting bottom as vacuum panel }	
N	B29C 49/42834	4	{Foaming, expanding or stretching the article }	
N	B29C 49/42836	4	{Collapsing or folding the article, e.g. to save space for transport }	
C	B29C 49/4284	2	{Means for recycling or reusing auxiliaries or materials, e.g. blowing fluids or energy }	B29C 49/4284, B29C 49/42845 - B29C 49/4287
N	B29C 49/42845	3	{Recycling or reusing of fluid, e.g. pressure }	
N	B29C 49/4285	4	{Reactive gases }	
N	B29C 49/42855	4	{Blowing fluids, e.g. reducing fluid consumption }	
N	B29C 49/4286	3	{Recycling or reusing of heat energy }	
N	B29C 49/42865	3	{Recycling or reusing of electric energy }	
N	B29C 49/4287	3	{for use outside the blow-moulding apparatus, e.g. generating power or as pressurized plant air }	
M	B29C 2049/4294	2	{Sealing means }	
N	B29C 2049/4296	3	{for avoiding blowing fluid from leaking, e.g. between the blowing means and the preform neck }	
N	B29C 2049/4298	3	{for sealing clean or sterile room or volume }	
N	B29C 2049/431	3	{for sealing moulds, e.g. for vacuum air floating }	
U	B29C 49/44	2	for applying pressure through the walls of an inflated bag	
C	B29C 49/46	2	characterised by using particular environment or blow fluids other than air	B29C 49/46, B29C 2049/4698, B29C 2049/4699
M	B29C 2049/4673	3	{Environments }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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M	B29C 2049/4679	4	{Sterile gas to surround or flush parts of the blow-moulding apparatus, e.g. blowing means, preforms or parisons}	
D	B29C 2049/4682	5	{surrounding or flushing preforms or parisons, e.g. flushing the inside of extruded parisons}	<administrative transfer to B29C 49/42414>
D	B29C 2049/4685	4	{after blow moulding}	<administrative transfer to B29C 49/4273>
D	B29C 2049/4688	5	{using reactive gas}	<administrative transfer to B29C 49/4273>
D	B29C 2049/4691	5	{using steam during blow moulding, e.g. to expand foamable beads}	<administrative transfer to B29C 49/42834>
D	B29C 2049/4694	5	{purging or cleaning the blow moulding apparatus or parts of it, e.g. cleaning blow moulds (cleaning moulds in general B29C 33/72)}	<administrative transfer to B29C 49/42403>
U	B29C 2049/4697	4	{Clean room}	
N	B29C 2049/4698	4	{Pressure difference, e.g. over pressure in room}	
N	B29C 2049/4699	4	{Air conditioned room}	
C	B29C 49/48	2	Moulds	B29C 49/48, B29C 49/48185, B29C 49/4819, B29C 2049/48615, B29C 2049/4862, B29C 2049/4863, B29C 2049/4874, B29C 2049/4881, B29C 2049/48825, B29C 2049/4883
U	B29C 49/4802	3	{with means for locally compressing part(s) of the parison in the main blowing cavity}	
D	B29C 2049/4812	4	{and welding opposite wall parts of the parisons or preforms to each other}	<administrative transfer to B29C 49/4812>
N	B29C 49/4812	4	{and welding opposite wall parts of the parisons or preforms to each other}	
M	B29C 49/4815	5	{by means of movable mould parts}	
M	B29C 49/4817	4	{with means for closing off parison ends}	
N	B29C 49/48185	3	{with more than one separate mould cavity}	
N	B29C 49/4819	4	{having different sizes or shapes of the mould cavities}	
T	B29C 2049/4825	4	{for cooling moulds or mould parts (B29C2049/5889 takes precedence)}	
D	B29C 2049/4828	5	{for cooling mould parts}	<administrative transfer to B29C 2049/4825>
T	B29C 2049/4838	4	{for heating moulds or mould parts}	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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D	B29C 2049/4841	5	{for heating mould parts }	<administrative transfer to B29C 2049/4838>
D	B29C 2049/4843	6	{for heating the bottom, e.g. heating the bottom part independently }	<administrative transfer to B29C 2049/4848>
T	B29C 2049/4848	6	{Bottom }	
M	B29C 2049/4853	4	{with means for improving heat transfer between the mould cavity and the preform }	
N	B29C 2049/4854	4	{Heating or cooling from the inside of the cavity, e.g. using flames or other means }	
M	B29C 2049/4856	3	{Mounting, exchanging or centering moulds or parts thereof (B29C2049/5893 takes precedence)}	
U	B29C 2049/4861	5	{Neck portions of bottle producing moulds }	
N	B29C 2049/48615	4	{Aligning the mould assembly position e.g. adapting center to the extruded parison }	
N	B29C 2049/4862	4	{Aligning the mould part position e.g. left half to right half }	
N	B29C 2049/4863	4	{Mould identification, e.g. chip on mould with ID and process data }	
U	B29C 2049/4866	5	{center the moulds with the mould half carriers }	
D	B29C 2049/4869	3	{containing more than one mould cavity }	<administrative transfer to B29C 49/48185>
N	B29C 49/487105	3	{characterised by the manufacturing process }	
D	B29C 2049/4871	4	{having different sizes or shapes mould cavities, e.g. for producing different sized bottles with the same mould }	<administrative transfer to B29C 49/4819>
T	B29C 2049/4874	3	{characterised by the material, e.g. having different thermal conductivities or hardness }	
M	B29C 2049/4879	3	{characterised by mould configurations }	
N	B29C 2049/4881	4	{having a mandrel or core e.g. two mould halves with a core in-between }	
C	B29C 2049/4882	4	{Mould cavity geometry }	B29C 2049/4882, B29C 2049/48825, B29C 2049/4883
N	B29C 2049/48825	5	{Asymmetric moulds, i.e. the parison is not in the center of the mould }	
N	B29C 2049/4883	5	{having cavity parts avoiding preform contact, e.g. partial free blow }	
D	B29C 2049/4897	3	{characterised by the manufacturing process (in general B29C33/38)}	<administrative transfer to B29C 49/487105>
C	B29C 49/56	2	Opening, closing or clamping means	B29C 49/56, B29C 49/5601,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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				B29C 49/5602, B29C 49/5603, B29C 49/5604, B29C 49/5605, B29C 49/5606, B29C 49/5607, B29C 49/5608, B29C 49/561, B29C 49/5611, B29C 49/5612, B29C 49/5613, B29C 49/5614, B29C 2049/5631, B29C 2049/5632, B29C 2049/5633, B29C 2049/5634, B29C 2049/5635, B29C 2049/5636, B29C 2049/5661, B29C 2049/5662, B29C 2049/5663, B29C 2049/5664, B29C 2049/5665, B29C 2049/5666
N	B29C 49/5601	3	{Mechanically operated, i.e. closing or opening of the mould parts is done by mechanic means }	
N	B29C 49/5602	4	{using cams }	
N	B29C 49/5603	4	{using toggle mechanism}	
N	B29C 49/5604	4	{using spindle nut mechanism}	
N	B29C 49/5605	3	{Hydraulically operated, i.e. closing or opening of the mould parts is done by hydraulic means }	
N	B29C 49/5606	3	{Pneumatically operated, i.e. closing or opening of the mould parts is done by hydraulic means }	
N	B29C 49/5607	3	{Electrically operated, e.g. the closing or opening is done with an electrical motor direct drive }	
N	B29C 49/5608	3	{Asymmetric movement of mould parts, e.g. by moving only one mould part }	
N	B29C 49/561	3	{Characterised by speed, e.g. variable opening closing speed }	
N	B29C 49/5611	3	{Tilting movement, e.g. changing angle of the mould parts towards the vertical direction }	
N	B29C 49/5612	3	{characterised by bottom part movement }	
N	B29C 49/5613	3	{characterised by connected mould part movement, e.g. bottom part movement is linked to mould half movement }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 49/5614	3	{Safety means, e.g. during ejection or locking failure}	
U	B29C 2049/563	3	{Clamping means }	
N	B29C 2049/5631	4	{Hydraulic }	
N	B29C 2049/5632	4	{Magnetic }	
N	B29C 2049/5633	4	{Pneumatic }	
N	B29C 2049/5634	4	{Electric, e.g. electric motor}	
N	B29C 2049/5635	4	{Avoiding mould deformation }	
N	B29C 2049/5636	3	{using closing means as clamping means }	
U	B29C 2049/566	3	{Locking means }	
N	B29C 2049/5661	4	{Mechanical }	
N	B29C 2049/5662	5	{Latch }	
N	B29C 2049/5663	5	{Rotating locking pin }	
N	B29C 2049/5664	5	{Translating locking pin }	
N	B29C 2049/5665	4	{Magnetic }	
N	B29C 2049/5666	4	{Pneumatic }	
T	B29C 49/58	2	Blowing means	
D	B29C 2049/5803	3	{Constructional features }	<administrative transfer to B29C49/58>
M	B29C 2049/5806	3	{Means for fixing the blowing means with the mould }	
M	B29C 2049/581	4	{Mechanical, e.g. fingers or toothed wheels }	
M	B29C 2049/5813	4	{Hydraulic }	
M	B29C 2049/5817	4	{Pneumatic }	
M	B29C 2049/582	4	{Magnetic, e.g. permanent magnets }	
M	B29C 2049/5824	5	{Electromagnetic means, e.g. electromagnets }	
M	B29C 2049/5827	3	{Blowing means not touching the preform }	
M	B29C 2049/5831	3	{Diaphragms or bellows protecting the blowing means against contamination }	
M	B29C 2049/5834	3	{Lost blowing means }	
M	B29C 2049/5837	3	{Plural independent blowing means }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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M	B29C 2049/5841	3	{Plural independent blowing paths }	
M	B29C 2049/5844	3	{Compacting means, e.g. to compact the neck portion of the blown article with the blowing means }	
M	B29C 2049/5848	3	{Cutting means, e.g. to cut parts of the preform or parison with the blowing means }	
M	B29C 2049/5851	3	{Means to avoid clogging of the blowing paths }	
M	B29C 2049/5855	3	{for injecting additional medium during the blowing operation, e.g. cooling medium }	
M	B29C 2049/5858	3	{Distributing blowing fluid to the moulds, e.g. rotative distributor or special connection }	
U	B29C 2049/5862	3	{Drive means therefore }	
C	B29C 2049/5893	3	{Mounting, exchanging or centering blowing means }	B29C 2049/5893, B29C 2049/5898
U	B29C 2049/5896	4	{Centering means therefore }	
N	B29C 2049/5898	4	{Regulation of the blowing means clamp force }	
C	B29C 49/60	3	Blow-needles	B29C 49/60, B29C 2049/6091, B29C 2049/6092
D	B29C 2049/6009	4	{Constructional features }	<administrative transfer to B29C 49/60>
M	B29C 2049/6018	4	{Constructional features of the air outlet }	
M	B29C 2049/6027	5	{having several air outlets e.g. for directing the blowing fluid in different directions }	
M	B29C 2049/6036	5	{the air outlet being located distant from the end of the needle }	
M	B29C 2049/6045	5	{the air outlet being openable and closable }	
M	B29C 2049/609	4	{Two or more blow-needles }	
N	B29C 2049/6091	4	{Avoiding needle marks, e.g. insertion in sprue }	
N	B29C 2049/6092	4	{Blow needle sterilization }	
C	B29C 49/62	2	Venting means	B29C 49/62, B29C 2049/6271, B29C 2049/6272
T	B29C 2049/622	3	{for venting air between preform and cavity, e.g. using venting holes, gaps or patterned moulds }	
D	B29C 2049/625	4	{by using spacing means between the mould halves }	<administrative transfer to B29C 2049/622>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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M	B29C 2049/627	4	{ using vacuum means }	
N	B29C 2049/6271	3	{ for venting blowing medium, e.g. using damper or silencer }	
N	B29C 2049/6272	4	{ using vacuum means }	
C	B29C 49/64	2	Heating or cooling preforms, parisons or blown articles	B29C 49/4268, B29C 49/4273, B29C 49/64, B29C 49/6419, B29C 49/64195, B29C 49/642, B29C 49/6427, B29C 49/643, B29C 49/6435, B29C 49/645, B29C 49/6452, B29C 49/6458, B29C 49/6462, B29C 49/6464, B29C 49/6465, B29C 49/6466, B29C 49/6467, B29C 49/648
U	B29C 49/6409	3	{ Thermal conditioning of preforms (B29C49/68 takes precedence) }	
M	B29C 49/6418	4	{ Heating of preforms }	
N	B29C 49/6419	5	{ from the inside }	
N	B29C 49/64195	5	{ Heated by the mould }	
N	B29C 49/642	5	{ and shrinking of the preform }	
T	B29C 49/6427	4	{ Cooling of preforms }	
N	B29C 49/643	5	{ from the inside }	
N	B29C 49/6435	5	{ from the outside }	
M	B29C 49/6436	4	{ characterised by temperature differential }	
U	B29C 49/6445	5	{ through the preform length }	
N	B29C 49/645	6	{ by cooling the neck }	
N	B29C 49/6452	6	{ by heating the neck }	
M	B29C 49/6454	5	{ through the preform thickness }	
N	B29C 49/6458	5	{ tangentially, i.e. along circumference }	
N	B29C 49/6462	5	{ by masking }	
M	B29C 49/6463	4	{ by contact heating or cooling, e.g. mandrels or cores specially adapted for heating or cooling preforms }	
N	B29C 49/6464	5	{ Heating }	
N	B29C 49/6465	5	{ Cooling }	
N	B29C 49/6466	5	{ on the inside }	
N	B29C 49/6467	5	{ on the outside }	
T	B29C 49/6472	3	{ in several stages }	
N	B29C 49/648	4	{ of preforms or parisons }	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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D	B29C 49/6481	4	{ using several mould cavities for each article }	<administrative transfer to B29C 49/18 and B29C 49/6472 simultaneously>
D	B29C 49/649	4	{ at least one stage being a heating stage used for shrinking of a preform prior to a subsequent blowing stage }	<administrative transfer to B29C 49/6472 and B29C 49/642 simultaneously>
C	B29C 49/66	3	Cooling by refrigerant introduced into the blown article	B29C 49/66, B29C 49/6604, B29C 49/6605, B29C 49/66055, B29C 2049/6606, B29C 2049/671
N	B29C49/6604	3	{ Thermal conditioning of the blown article (B29C49/66 takes precedence) }	
N	B29C 49/6605	4	{ Heating the article, e.g. for hot fill }	
N	B29C 49/66055	5	{ using special pressurizing during the heating, e.g. in order to control the shrinking }	
N	B29C 2049/6606	4	{ Cooling the article }	
T	B29C 2049/6607	5	{ Flushing blown articles }	
M	B29C 2049/6615	6	{ and exhausting through the blowing means }	
M	B29C 2049/6623	6	{ and exhausting through an opening in the blown article }	
D	B29C 2049/663	5	{ against ambient pressure }	<administrative transfer to B29C 2049/6607>
D	B29C 2049/6638	5	{ against a pressure higher than ambient pressure }	<administrative transfer to B29C 2049/6607>
M	B29C 2049/6646	6	{ while keeping the final blowing pressure in the article }	
M	B29C 2049/6653	5	{ the medium being other than cooled air }	
M	B29C 2049/6661	6	{ Water }	
M	B29C 2049/6669	6	{ Gas with water droplets }	
M	B29C 2049/6676	5	{ the medium being oriented towards special areas of the blown article }	
M	B29C 2049/6684	6	{ Neck area }	
M	B29C 2049/6692	6	{ Bottom area }	
N	B29C 2049/671	4	{ Conditioning the blown article outside the mould, e.g. while transporting it out of the mould }	
C	B29C 49/68	3	Ovens specially adapted for heating preforms or parisons	B29C 49/68, B29C 49/681, B29C 49/682,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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				B29C 49/6825, B29C 49/683, B29C 49/6835, B29C 49/684, B29C 49/6845, B29C 49/685, B29C 49/6855
N	B29C 49/681	4	{using a conditioning receptacle, e.g. a cavity, e.g. having heated or cooled regions }	
N	B29C 49/682	4	{ characterised by the path, e.g. sinusoidal path }	
N	B29C 49/6825	4	{Mounting exchanging or centering ovens or parts thereof }	
N	B29C 49/683	4	{Adjustable or modular conditioning means, e.g. position and number of heating elements }	
N	B29C 49/6835	4	{using reflectors }	
N	B29C 49/684	4	{using masking }	
N	B29C 49/6845	4	{using ventilation, e.g. a fan }	
N	B29C 49/685	4	{Rotating the preform in relation to heating means }	
N	B29C 49/6855	4	{Cooling of heating means, e.g. avoiding overheating }	
C	B29C 49/70	2	Removing or ejecting blown articles from the mould	B29C 49/4273, B29C 49/70, B29C 2049/709
T	B29C2049/701	3	{Ejecting means }	
D	B29C 2049/704	4	{Pins }	<administrative transfer to B29C 2049/701>
D	B29C 2049/705	5	{Driving means therefore }	<administrative transfer to B29C 2049/701>
M	B29C 2049/707	4	{Hydraulic driving means }	
M	B29C 2049/708	4	{Pneumatic driving means }	
N	B29C 2049/709	3	{Retaining means, e.g. means for retaining the article before it is removed or ejected }	
C	B29C 49/76	2	Neck calibration	B29C 49/4268, B29C 49/4273, B29C 49/76, B29C 49/761
N	B29C 49/761	3	{Forming threads, e.g. shaping neck thread between blowing means and mould }	
C	B29C 49/78	2	Measuring, controlling or regulating	B29C 49/4268, B29C 49/4273, B29C 49/78, B29C 2049/7831, B29C 2049/7832, B29C 2049/7833, B29C 2049/7834,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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				B29C 2049/7835, B29C 2049/7861, B29C 2049/7862, B29C 2049/7863, B29C 2049/7864, B29C 2049/78645, B29C 2049/7865, B29C 2049/7866, B29C 2049/7867, B29C 2049/78675, B29C 2049/7868, B29C 2049/787, B29C 2049/78705, B29C 2049/7871, B29C 2049/78715, B29C 2049/7873, B29C 2049/7874, B29C 2049/78745, B29C 2049/7875, B29C 2049/78755, B29C 2049/7876, B29C 2049/78765, B29C 2049/7878, B29C 2049/7879, B29C 2049/788, B29C 2049/78805, B29C 2049/7881, B29C 2049/78815, B29C 2049/7882
M	B29C 49/783	3	{blowing pressure}	
N	B29C 2049/7831	4	{characterised by pressure values or ranges}	
N	B29C 2049/7832	4	{Blowing with two or more pressure levels}	
N	B29C 2049/7833	5	{Blowing with three or more pressure levels}	
N	B29C 2049/7834	4	{Pressure increase speed, e.g. dependent on stretch or position}	
N	B29C 2049/7835	4	{Pressure reduction speed}	
M	B29C 49/786	3	{Temperature}	
N	B29C 2049/7861	4	{of the preform}	
N	B29C 2049/7862	5	{characterised by temperature values or ranges}	
N	B29C 2049/7863	5	{Cold blow-moulding, e.g. below Tg}	
N	B29C 2049/7864	4	{of the mould}	
N	B29C 2049/78645	5	{characterised by temperature values or ranges}	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C 2049/7865	4	{of the stretching means, e.g. stretch rod}	
N	B29C 2049/7866	4	{of the blowing medium}	
N	B29C 2049/7867	4	{of the heating or cooling means}	
N	B29C 2049/78675	5	{of the heating means}	
N	B29C 2049/7868	4	{of the articles}	
N	B29C 2049/787	3	{Thickness}	
N	B29C 2049/78705	4	{of a layer, e.g. intermediate layer}	
N	B29C 2049/7871	4	{of the extruded preform thickness}	
N	B29C 2049/78715	4	{of the blown article thickness}	
N	B29C 2049/7873	3	{Extrusion speed; Extruded preform position or length; Extrusion fall speed}	
N	B29C 2049/7874	3	{Preform or article shape, weight, defect or presence}	
N	B29C 2049/78745	4	{Weight or density}	
N	B29C 2049/7875	4	{Size or shape}	
N	B29C 2049/78755	4	{Optical properties}	
N	B29C 2049/7876	4	{Defects}	
N	B29C 2049/78765	4	{Presence, e.g. of the preform in the mould}	
N	B29C 2049/7878	3	{Preform or article handling, e.g. flow from station to station}	
N	B29C 2049/7879	3	{Stretching, e.g. stretch rod}	
N	B29C 2049/788	3	{Controller type or interface}	
N	B29C 2049/78805	4	{Computer or PLC control}	
N	B29C 2049/7881	4	{Mechanical control}	
N	B29C 2049/78815	4	{using wireless transmission}	
N	B29C 2049/7882	4	{Control interface, e.g. display}	
C	B29C 49/80	3	Testing, e.g. for leaks	B29C49/80, B29C 2049/801
N	B29C 2049/801	4	{Taking preform or article samples, e.g. by cutting out pieces for analysis}	
C	B29C2949/00	0	Indexing scheme relating to blow-moulding	B29C2949/00, B29C2949/07, B29C2949/071,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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				B29C2949/0715, B29C2949/072, B29C2949/0721, B29C2949/0722, B29C2949/0723, B29C2949/0724, B29C2949/0725, B29C2949/073, B29C2949/0731, B29C2949/0732, B29C2949/0733, B29C2949/0734, B29C2949/074, B29C2949/0741, B29C2949/0742, B29C2949/0744, B29C2949/0745, B29C2949/0746, B29C2949/0747, B29C2949/075, B29C2949/0751, B29C2949/0752, B29C2949/0753, B29C2949/0754, B29C2949/076, B29C2949/0761, B29C2949/0762, B29C2949/0763, B29C2949/0764, B29C2949/0765, B29C2949/0766, B29C2949/0767, B29C2949/0768, B29C2949/0769, B29C2949/077, B29C2949/0771, B29C2949/0772, B29C2949/0773, B29C2949/0774, B29C2949/0775, B29C2949/0776, B29C2949/0777, B29C2949/0778, B29C2949/0779, B29C2949/078, B29C2949/0781, B29C2949/0782, B29C2949/079, B29C2949/0791, B29C2949/0792, B29C2949/0793, B29C2949/0794,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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				B29C2949/0795, B29C2949/0796, B29C2949/0797, B29C2949/0798, B29C2949/0799, B29C2949/08, B29C2949/0801, B29C2949/081, B29C2949/0811, B29C2949/0812, B29C2949/0813, B29C2949/0814, B29C2949/0815, B29C2949/0816, B29C2949/0817, B29C2949/0818, B29C2949/0819, B29C2949/082, B29C2949/0821, B29C2949/0822, B29C2949/0823, B29C2949/0824, B29C2949/0825, B29C2949/0826, B29C2949/0827, B29C2949/0828, B29C2949/0829, B29C2949/083, B29C2949/0831, B29C2949/0832, B29C2949/0833, B29C2949/0834, B29C2949/0835, B29C2949/0836, B29C2949/0837, B29C2949/0838, B29C2949/0839, B29C2949/084, B29C2949/0841, B29C2949/0842, B29C2949/0843, B29C2949/0844, B29C2949/0845, B29C2949/0846, B29C2949/0847, B29C2949/0849, B29C2949/085, B29C2949/0851, B29C2949/0852, B29C2949/0853, B29C2949/0854, B29C2949/0855,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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				B29C2949/0856, B29C2949/086, B29C2949/0861, B29C2949/0862, B29C2949/0863, B29C2949/0864, B29C2949/0865, B29C2949/0866, B29C2949/0867, B29C2949/0868, B29C2949/0869, B29C2949/087, B29C2949/0871, B29C2949/0872, B29C2949/20, B29C2949/22, B29C2949/24, B29C2949/26, B29C2949/28, B29C2949/30, B29C2949/3004, B29C2949/3006, B29C2949/3008, B29C2949/3009, B29C2949/3012, B29C2949/3014, B29C2949/3016, B29C2949/3018, B29C2949/302, B29C2949/3022, B29C2949/3024, B29C2949/3026, B29C2949/3028, B29C2949/303, B29C2949/3032, B29C2949/3034, B29C2949/3036, B29C2949/3038, B29C2949/3041, B29C2949/3042, B29C2949/3044, B29C2949/3046, B29C2949/3048, B29C2949/3051, B29C2949/3052, B29C2949/3054, B29C2949/3056, B29C2949/3058, B29C2949/306, B29C2949/3062, B29C2949/3064, B29C2949/3066,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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				B29C2949/3068, B29C2949/307, B29C2949/3074, B29C2949/3076, B29C2949/3078, B29C2949/308, B29C2949/3082, B29C2949/3084, B29C2949/3086, B29C2949/3088, B29C2949/309, B29C2949/3092, B29C2949/3094
N	B29C2949/07	1	Preforms or parisons characterised by their configuration	
N	B29C2949/071	2	the preform being a tube, i.e. with both ends open	
N	B29C2949/0715	2	the preform having one end closed	
N	B29C2949/072	2	having variable wall thickness	
N	B29C2949/0721	3	Tangentially varying thickness	
N	B29C2949/0722	3	at neck portion	
N	B29C2949/0723	3	at flange portion	
N	B29C2949/0724	3	at body portion	
N	B29C2949/0725	3	at bottom portion	
N	B29C2949/073	2	having variable diameter	
N	B29C2949/0731	3	at neck portion	
N	B29C2949/0732	3	at flange portion	
N	B29C2949/0733	3	at body portion	
N	B29C2949/0734	3	at bottom portion	
N	B29C2949/074	2	having ribs or protrusions	
N	B29C2949/0741	3	longitudinal, e.g. from top to bottom	
N	B29C2949/0742	3	Circumferential	
N	B29C2949/0744	3	at neck portion	
N	B29C2949/0745	3	at flange portion	
N	B29C2949/0746	3	at body portion	
N	B29C2949/0747	3	at bottom portion	
N	B29C2949/075	2	having at least one internal separating wall	
N	B29C2949/0751	3	at neck portion	
N	B29C2949/0752	3	at flange portion	
N	B29C2949/0753	3	at body portion	
N	B29C2949/0754	3	at bottom portion	
N	B29C2949/076	2	characterised by the shape	
N	B29C2949/0761	3	characterised by overall the shape	
N	B29C2949/0762	4	Conical	
N	B29C2949/0763	4	Axially asymmetrical	
N	B29C2949/0764	4	Elliptic or oval cross-section shape	
N	B29C2949/0765	4	Rectangular cross-section shape	
N	B29C2949/0766	4	Hexagonal cross-section shape	
N	B29C2949/0767	4	the shape allowing stacking or nesting	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

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N	B29C2949/0768	3	characterised by the shape of specific parts of preform	
N	B29C2949/0769	4	characterised by the lip, i.e. very top of preform neck	
N	B29C2949/077	4	characterised by the neck	
N	B29C2949/0771	5	Wide-mouth	
N	B29C2949/0772	5	Closure retaining means	
N	B29C2949/0773	6	Threads	
N	B29C2949/0774	7	Interrupted threads	
N	B29C2949/0775	7	Inner threads	
N	B29C2949/0776	6	not containing threads	
N	B29C2949/0777	5	Tamper-evident band retaining ring	
N	B29C2949/0778	4	characterised by the flange	
N	B29C2949/0779	4	characterised by the body	
N	B29C2949/078	4	characterised by the bottom	
N	B29C2949/0781	5	characterised by the sprue, i.e. injection mark	
N	B29C2949/0782	5	characterised by the pinch-off portion	
N	B29C2949/079	2	Auxiliary parts or inserts	
N	B29C2949/0791	3	Handle	
N	B29C2949/0792	3	Closure	
N	B29C2949/0793	3	Transport means	
N	B29C2949/0794	3	Dispensing spout	
N	B29C2949/0795	3	Parts to assist orientation of preform, e.g. in mould	
N	B29C2949/0796	4	at neck portion	
N	B29C2949/0797	4	at flange portion	
N	B29C2949/0798	4	at body portion	
N	B29C2949/0799	4	at bottom portion	
N	B29C2949/08	3	Preforms made of several individual parts, e.g. by welding or gluing parts together	
N	B29C2949/0801	4	Finish neck ring	
N	B29C2949/081	2	Specified dimensions, e.g. values or ranges	
N	B29C2949/0811	3	Wall thickness	
N	B29C2949/0812	4	of the lip, i.e. the very top of the preform neck	
N	B29C2949/0813	4	of the neck	
N	B29C2949/0814	4	of the threads	
N	B29C2949/0815	4	of the tamper-evident band retaining ring	
N	B29C2949/0816	4	of the flange	
N	B29C2949/0817	4	of the body	
N	B29C2949/0818	4	of the bottom	
N	B29C2949/0819	4	of a layer	
N	B29C2949/082	3	Diameter	
N	B29C2949/0821	4	of the lip, i.e. the very top of the preform neck	
N	B29C2949/0822	4	of the neck	
N	B29C2949/0823	4	of the threads	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in { curly brackets }**	Transferred to#
N	B29C2949/0824	4	of the tamper-evident band retaining ring	
N	B29C2949/0825	4	of the flange	
N	B29C2949/0826	4	of the body	
N	B29C2949/0827	4	of the bottom	
N	B29C2949/0828	4	of a layer	
N	B29C2949/0829	3	Height, length	
N	B29C2949/083	4	of the lip, i.e. the very top of the preform neck	
N	B29C2949/0831	4	of the neck	
N	B29C2949/0832	4	of the threads	
N	B29C2949/0833	4	of the tamper-evident band retaining ring	
N	B29C2949/0834	4	of the flange	
N	B29C2949/0835	4	of the body	
N	B29C2949/0836	4	of the bottom	
N	B29C2949/0837	4	of a layer	
N	B29C2949/0838	3	Ratio between length and diameter	
N	B29C2949/0839	3	Angle	
N	B29C2949/084	4	of the lip, i.e. the very top of the preform neck	
N	B29C2949/0841	4	of the neck	
N	B29C2949/0842	4	of the threads	
N	B29C2949/0843	4	of the tamper-evident band retaining ring	
N	B29C2949/0844	4	of the flange	
N	B29C2949/0845	4	of the body	
N	B29C2949/0846	4	of the bottom	
N	B29C2949/0847	4	of a layer	
N	B29C2949/0849	3	Curvature, e.g. radius	
N	B29C2949/085	4	of the lip, i.e. the very top of the preform neck	
N	B29C2949/0851	4	of the neck	
N	B29C2949/0852	4	of the threads	
N	B29C2949/0853	4	of the tamper-evident band retaining ring	
N	B29C2949/0854	4	of the flange	
N	B29C2949/0855	4	of the body	
N	B29C2949/0856	4	of the bottom	
N	B29C2949/086	4	of a layer	
N	B29C2949/0861	2	Other specified values, e.g. values or ranges	
N	B29C2949/0862	3	Crystallinity	
N	B29C2949/0863	4	at the neck portion	
N	B29C2949/0864	4	at the flange portion	
N	B29C2949/0865	4	at the body portion	
N	B29C2949/0866	4	at the bottom portion	
N	B29C2949/0867	3	Surface roughness	
N	B29C2949/0868	4	at the neck portion	
N	B29C2949/0869	4	at the flange portion	
N	B29C2949/087	4	at the body portion	
N	B29C2949/0871	4	at the bottom portion	
N	B29C2949/0872	3	Weight	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
N	B29C2949/20	1	Preforms or parisons whereby a specific part is made of only one component, e.g. only one layer	
N	B29C2949/22	2	at neck portion	
N	B29C2949/24	2	at flange portion	
N	B29C2949/26	2	at body portion	
N	B29C2949/28	2	at bottom portion	
N	B29C2949/30	1	Preforms or parisons made of several components	
N	B29C2949/3004	2	having longitudinally different components within one layer, e.g. tubes with longitudinal stratified layering	
N	B29C2949/3006	2	having tangentially different components within one layer, e.g. longitudinal stripes	
N	B29C2949/3008	2	at neck portion	
N	B29C2949/3009	3	partially	
N	B29C2949/3012	2	at flange portion	
N	B29C2949/3014	3	partially	
N	B29C2949/3016	2	at body portion	
N	B29C2949/3018	3	partially	
N	B29C2949/302	2	at bottom portion	
N	B29C2949/3022	3	partially	
N	B29C2949/3024	2	characterised by the number of components or by the manufacturing technique	
N	B29C2949/3026	3	having two or more components	
N	B29C2949/3028	4	having three or more components	
N	B29C2949/303	5	having more than three components	
N	B29C2949/3032	2	having components being injected	
N	B29C2949/3034	3	having two or more components being injected	
N	B29C2949/3036	4	having three or more components being injected	
N	B29C2949/3038	5	having more than three components being injected	
N	B29C2949/3041	2	having components being extruded	
N	B29C2949/3042	3	having two or more components being extruded	
N	B29C2949/3044	4	having three or more components being extruded	
N	B29C2949/3046	5	having more than three components being extruded	
N	B29C2949/3048	2	having components being thermoformed	
N	B29C2949/3051	3	having two or more components being thermoformed	
N	B29C2949/3052	4	having three or more components being thermoformed	
N	B29C2949/3054	5	having more than three components being thermoformed	
N	B29C2949/3056	2	having components being compression moulded	

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in { curly brackets }**	Transferred to#
N	B29C2949/3058	3	having two or more components being compression moulded	
N	B29C2949/306	4	having three or more components being compression moulded	
N	B29C2949/3062	5	having more than three components being compression moulded	
N	B29C2949/3064	2	having at least one components being applied using techniques not covered by B29C 2949/3032 - B29C 2949/3062	
N	B29C2949/3066	3	having two or more components being applied using said techniques	
N	B29C2949/3068	4	having three or more components being applied using said techniques	
N	B29C2949/307	5	having more than three components being applied using said techniques	
N	B29C2949/3074	3	said at least one component obtained by coating	
N	B29C2949/3076	4	on the inside	
N	B29C2949/3078	4	by spray coating	
N	B29C2949/308	4	by dip coating	
N	B29C2949/3082	4	by powder coating	
N	B29C2949/3084	3	said at least one component obtained by casting	
N	B29C2949/3086	2	Interaction between two or more components, e.g. type of or lack of bonding	
N	B29C2949/3088	3	Bonding	
N	B29C2949/309	4	by welding	
N	B29C2949/3092	4	by using adhesives	
N	B29C2949/3094	3	preform having at least partially loose components, e.g. at least partially loose layers	
D	B29C 2949/78	1	Measuring, controlling or regulating	<administrative transfer to B29C 49/78>
D	B29C 2949/78008	2	Measuring	<administrative transfer to B29C 49/78>
D	B29C 2949/78016	3	Measured parameter	<administrative transfer to B29C 49/78>
D	B29C 2949/78025	4	Pressure	<administrative transfer to B29C 49/78>
D	B29C 2949/78033	4	Energy, power, electric current or voltage	<administrative transfer to B29C 49/78>
D	B29C 2949/78042	4	Time, e.g. start, termination, duration or interruption	<administrative transfer to B29C 49/78>
D	B29C 2949/7805	4	Position, e.g. start, end or actual position	<administrative transfer to B29C 49/78>
D	B29C 2949/78058	4	Velocity	<administrative transfer to B29C 49/78>
D	B29C 2949/78067	4	Dimension	<administrative transfer to B29C 49/78>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
D	B29C 2949/78075	5	Diameter	<administrative transfer to B29C 49/78>
D	B29C 2949/78084	5	Length	<administrative transfer to B29C 49/78>
D	B29C 2949/78092	5	Thickness	<administrative transfer to B29C 49/78>
D	B29C 2949/781	6	of individual layers of multilayered objects	<administrative transfer to B29C 49/78>
D	B29C 2949/78109	4	Volume or quantity	<administrative transfer to B29C 49/78>
D	B29C 2949/78117	4	Dimensional change, e.g. distortion or shrinkage	<administrative transfer to B29C 49/78>
D	B29C 2949/78126	4	Weight	<administrative transfer to B29C 49/78>
D	B29C 2949/78134	4	Density, e.g. per unit length or area	<administrative transfer to B29C 49/78>
D	B29C 2949/78142	4	Viscosity	<administrative transfer to B29C 49/78>
D	B29C 2949/78151	4	Temperature	<administrative transfer to B29C 49/78>
D	B29C 2949/78159	4	Electrical properties	<administrative transfer to B29C 49/78>
D	B29C 2949/78168	4	Optical properties	<administrative transfer to B29C 49/78>
D	B29C 2949/78176	5	Colour, e.g. transparency	<administrative transfer to B29C 49/78>
D	B29C 2949/78184	4	Mechanical properties	<administrative transfer to B29C 49/78>
D	B29C 2949/78193	4	Magnetic properties	<administrative transfer to B29C 49/78>
D	B29C 2949/78201	4	Surface properties	<administrative transfer to B29C 49/78>
D	B29C 2949/7821	4	Errors or malfunctioning	<administrative transfer to B29C 49/78>
D	B29C 2949/78218	4	Presence or absence, e.g. of preforms or parisons	<administrative transfer to B29C 49/78>
D	B29C 2949/78226	3	Location or phase of measurement	<administrative transfer to B29C 49/78>
D	B29C 2949/78235	4	Injection phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/78243	4	Extrusion phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/78252	5	Die; Nozzle zone	<administrative transfer to B29C 49/78>
D	B29C 2949/7826	4	Handling phase or unit, e.g. feeding device	<administrative transfer to B29C 49/78>
D	B29C 2949/78268	5	of blow moulded articles	<administrative transfer to B29C 49/78>
D	B29C 2949/78277	5	of inserts	<administrative transfer to B29C 49/78>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in { curly brackets }**	Transferred to#
D	B29C 2949/78285	5	of labels	<administrative transfer to B29C 49/78>
D	B29C 2949/78294	4	Blow moulding phase	<administrative transfer to B29C 49/78>
D	B29C 2949/78302	4	Closure, opening or clamping phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/7831	5	during opening phase	<administrative transfer to B29C 49/78>
D	B29C 2949/78319	5	during clamping phase	<administrative transfer to B29C 49/78>
D	B29C 2949/78327	4	Ejection phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/78336	4	Mould	<administrative transfer to B29C 49/78>
D	B29C 2949/78344	5	cavity	<administrative transfer to B29C 49/78>
D	B29C 2949/78352	5	non cavity forming parts	<administrative transfer to B29C 49/78>
D	B29C 2949/78361	5	core of the injection blow moulding machine, e.g. core transporting preform to blow moulding machine	<administrative transfer to B29C 49/78>
D	B29C 2949/78369	4	Stretching phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/78378	4	Blowing means, pressurized phase	<administrative transfer to B29C 49/78>
D	B29C 2949/78386	4	Preform or parison	<administrative transfer to B29C 49/78>
D	B29C 2949/78394	4	Moulded articles	<administrative transfer to B29C 49/78>
D	B29C 2949/78403	4	Inserts	<administrative transfer to B29C 49/78>
D	B29C 2949/78411	4	Fluids	<administrative transfer to B29C 49/78>
D	B29C 2949/7842	5	introduced into the preform, parison or blown article	<administrative transfer to B29C 49/78>
D	B29C 2949/78428	6	for temperature control	<administrative transfer to B29C 49/78>
D	B29C 2949/78436	5	Temperature control fluids, i.e. to regulate the temperature in the blow mould	<administrative transfer to B29C 49/78>
D	B29C 2949/78445	4	Driving means, e.g. motor or drive fluids	<administrative transfer to B29C 49/78>
D	B29C 2949/78453	4	Auxiliary phases or units	<administrative transfer to B29C 49/78>
D	B29C 2949/78462	5	Pre-treatment phase or devices	<administrative transfer to B29C 49/78>
D	B29C 2949/7847	5	Post-treatment phases or devices	<administrative transfer to B29C 49/78>
D	B29C 2949/78478	4	Start-up, shut-down phase; Emergency shut down	<administrative transfer to B29C 49/78>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in { curly brackets }**	Transferred to#
D	B29C 2949/78487	3	Measurement means	<administrative transfer to B29C 49/78>
D	B29C 2949/78495	4	Electrical, e.g. thermocouples	<administrative transfer to B29C 49/78>
D	B29C 2949/78504	4	Optical, e.g. laser	<administrative transfer to B29C 49/78>
D	B29C 2949/78512	5	Cameras	<administrative transfer to B29C 49/78>
D	B29C 2949/78521	2	Controlling or regulating	<administrative transfer to B29C 49/78>
D	B29C 2949/78529	3	Controlled parameter	<administrative transfer to B29C 49/78>
D	B29C 2949/78537	4	Pressure	<administrative transfer to B29C 49/78>
D	B29C 2949/78546	4	Energy, power, electric current or voltage	<administrative transfer to B29C 49/78>
D	B29C 2949/78554	4	Time, e.g. start, termination, duration or interruption	<administrative transfer to B29C 49/78>
D	B29C 2949/78563	4	Position, e.g. start, end or actual position	<administrative transfer to B29C 49/78>
D	B29C 2949/78571	4	Velocity	<administrative transfer to B29C 49/78>
D	B29C 2949/78579	4	Dimension	<administrative transfer to B29C 49/78>
D	B29C 2949/78588	5	Diameter	<administrative transfer to B29C 49/78>
D	B29C 2949/78596	5	Length	<administrative transfer to B29C 49/78>
D	B29C 2949/78605	5	Thickness	<administrative transfer to B29C 49/78>
D	B29C 2949/78613	6	of individual layers of multilayered objects	<administrative transfer to B29C 49/78>
D	B29C 2949/78621	4	Volume or quantity	<administrative transfer to B29C 49/78>
D	B29C 2949/7863	4	Dimensional change, e.g. distortion or shrinkage	<administrative transfer to B29C 49/78>
D	B29C 2949/78638	4	Weight	<administrative transfer to B29C 49/78>
D	B29C 2949/78647	4	Density, e.g. per unit length or area	<administrative transfer to B29C 49/78>
D	B29C 2949/78655	4	Viscosity	<administrative transfer to B29C 49/78>
D	B29C 2949/78663	4	Temperature	<administrative transfer to B29C 49/78>
D	B29C 2949/78672	4	Electrical properties	<administrative transfer to B29C 49/78>
D	B29C 2949/7868	4	Optical properties	<administrative transfer to B29C 49/78>
D	B29C 2949/78689	5	Colour, e.g. transparency	<administrative transfer to B29C 49/78>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in { curly brackets }**	Transferred to#
D	B29C 2949/78697	4	Mechanical properties	<administrative transfer to B29C 49/78>
D	B29C 2949/78705	4	Magnetic properties	<administrative transfer to B29C 49/78>
D	B29C 2949/78714	4	Surface properties	<administrative transfer to B29C 49/78>
D	B29C 2949/78722	4	Errors or malfunctioning	<administrative transfer to B29C 49/78>
D	B29C 2949/78731	4	Presence or absence, e.g. of preforms or parisons	<administrative transfer to B29C 49/78>
D	B29C 2949/78739	3	Location or phase of control	<administrative transfer to B29C 49/78>
D	B29C 2949/78747	4	Injection phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/78756	4	Extrusion phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/78764	5	Die; Nozzle zone	<administrative transfer to B29C 49/78>
D	B29C 2949/78773	4	Handling phase or unit, e.g. feeding device	<administrative transfer to B29C 49/78>
D	B29C 2949/78781	5	of blow moulded articles	<administrative transfer to B29C 49/78>
D	B29C 2949/78789	5	of inserts	<administrative transfer to B29C 49/78>
D	B29C 2949/78798	5	of labels	<administrative transfer to B29C 49/78>
D	B29C 2949/78806	4	Blow moulding phase	<administrative transfer to B29C 49/78>
D	B29C 2949/78815	4	Closure, opening or clamping phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/78823	5	during opening phase	<administrative transfer to B29C 49/78>
D	B29C 2949/78831	5	during clamping phase	<administrative transfer to B29C 49/78>
D	B29C 2949/7884	4	Ejection phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/78848	4	Mould	<administrative transfer to B29C 49/78>
D	B29C 2949/78857	5	cavity	<administrative transfer to B29C 49/78>
D	B29C 2949/78865	5	non cavity forming parts	<administrative transfer to B29C 49/78>
D	B29C 2949/78873	5	core of the injection blow moulding machine, e.g. core transporting preform to blow moulding machine	<administrative transfer to B29C 49/78>
D	B29C 2949/78882	4	Stretching phase or unit	<administrative transfer to B29C 49/78>
D	B29C 2949/7889	4	Blowing means, pressurized phase	<administrative transfer to B29C 49/78>
D	B29C 2949/78899	4	Preform or parison	<administrative transfer to B29C 49/78>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
D	B29C 2949/78907	4	Moulded articles	<administrative transfer to B29C 49/78>
D	B29C 2949/78915	4	Inserts	<administrative transfer to B29C 49/78>
D	B29C 2949/78924	4	Fluids	<administrative transfer to B29C 49/78>
D	B29C 2949/78932	5	introduced into the preform, parison or blown article	<administrative transfer to B29C 49/78>
D	B29C 2949/78941	6	for temperature control	<administrative transfer to B29C 49/78>
D	B29C 2949/78949	5	Temperature control fluids, i.e. to regulate the temperature in the blow mould	<administrative transfer to B29C 49/78>
D	B29C 2949/78957	4	Driving means, e.g. motor or drive fluids	<administrative transfer to B29C 49/78>
D	B29C 2949/78966	4	Auxiliary phases or units	<administrative transfer to B29C 49/78>
D	B29C 2949/78974	5	Pre-treatment phases or devices	<administrative transfer to B29C 49/78>
D	B29C 2949/78983	5	Post-treatment phases or devices	<administrative transfer to B29C 49/78>
D	B29C 2949/78991	4	Start-up, shut-down phase; Emergency shut down	<administrative transfer to B29C 49/78>

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “<administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

DATE: MAY 1, 2022

PROJECT RP10424

B. New, Modified or Deleted Warning(s)

SUBCLASS B29C – SHAPING OR JOINING OF PLASTICS; SHAPING OF MATERIAL IN A PLASTIC STATE, NOT OTHERWISE PROVIDED FOR; AFTER-TREATMENT OF THE SHAPED PRODUCTS, e.g. REPAIRING (.....)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B29C 49/00		Group B29C 49/00 is impacted by reclassification into groups B29C 49/006, B29C 49/0062 and B29C 49/0064. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/0005		Group B29C 49/0005 is impacted by reclassification into group B29C 49/0006. Groups B29C 49/0005 and B29C 49/0006 should be considered in order to perform a complete search.
N	B29C 49/0006		Group B29C 49/0006 is incomplete pending reclassification of documents from group B29C 49/0005. Groups B29C 49/0005 and B29C 49/0006 should be considered in order to perform a complete search.
N	B29C 49/0015		Group B29C 49/0015 is impacted by reclassification into groups B29C 49/0021, B29C 49/0022, B29C 49/0023, B29C 49/0024, B29C 49/0025, B29C 49/0027, B29C 49/0028, B29C 49/0029 and B29C 49/003. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/0021		Group B29C 49/0021 is incomplete pending reclassification of documents from group B29C 49/0015. Group B29C 49/0021 is also impacted by reclassification into groups B29C 49/0022, B29C 49/0023, B29C 49/0024, B29C 49/0025, B29C 49/0027, B29C 49/0028, B29C 49/0029 and B29C 49/003. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/0022		Group B29C 49/0022 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021. Groups B29C 49/0015, B29C 49/0021 and B29C 49/0022

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			should be considered in order to perform a complete search.
N	B29C 49/0023		Group B29C 49/0023 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021. Groups B29C 49/0015, B29C 49/0021 and B29C 49/0023 should be considered in order to perform a complete search.
N	B29C 49/0024		Group B29C 49/0024 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021. Groups B29C 49/0015, B29C 49/0021 and B29C 49/0024 should be considered in order to perform a complete search.
N	B29C 49/0025		Group B29C 49/0025 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021. Groups B29C 49/0015, B29C 49/0021 and B29C 49/0025 should be considered in order to perform a complete search.
N	B29C 49/0027		Group B29C 49/0027 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021. Groups B29C 49/0015, B29C 49/0021 and B29C 49/0027 should be considered in order to perform a complete search.
N	B29C 49/0028		Group B29C 49/0028 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021. Groups B29C 49/0015, B29C 49/0021 and B29C 49/0028 should be considered in order to perform a complete search.
N	B29C 49/0029		Group B29C 49/0029 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021. Groups B29C 49/0015, B29C 49/0021 and B29C 49/0029 should be considered in order to perform a complete search.
N	B29C 49/003		Group B29C 49/003 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021. Groups B29C 49/0015, B29C 49/0021 and B29C 49/003

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			should be considered in order to perform a complete search.
N	B29C 49/0042		Group B29C 49/0042 is impacted by reclassification into group B29C 49/1602. Groups B29C 49/0042 and B29C 49/1602 should be considered in order to perform a complete search.
N	B29C 49/006		Groups B29C 49/006, B29C 49/0062 and B29C 49/0064 are incomplete pending reclassification of documents from group B29C 49/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/02		Group B29C 49/02 is impacted by reclassification into groups B29C 49/0208, B29C 49/0665, B29C 49/0685, B29C 49/06905, B29C 49/0691, B29C 49/06912, B29C 49/06914, B29C 49/06916 and B29C 49/071. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/0208		Group B29C 49/0208 is incomplete pending reclassification of documents from group B29C 49/02. Groups B29C 49/02 and B29C 49/0208 should be considered in order to perform a complete search.
N	B29C 49/04		Group B29C 49/04 is impacted by reclassification into groups B29C 49/04102, B29C 49/04104, B29C 49/04106, B29C 49/04108, B29C 49/0411, B29C 49/04112, B29C 49/04114, B29C 49/04116, B29C 49/04118 and B29C 49/0412. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/04102		Group B29C 49/04102 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04102 should be considered in order to perform a complete search.
N	B29C 49/04104		Group B29C 49/04104 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04104 should be

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			considered in order to perform a complete search.
N	B29C 49/04106		Group B29C 49/04106 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04106 should be considered in order to perform a complete search.
N	B29C 49/04108		Group B29C 49/04108 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04108 should be considered in order to perform a complete search.
N	B29C 49/0411		Groups B29C 49/0411, B29C 49/04112 and B29C 49/04114 are incomplete pending reclassification of documents from group B29C 49/04. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/04116		Group B29C 49/04116 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04116 should be considered in order to perform a complete search.
N	B29C 49/04118		Group B29C 49/04118 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04118 should be considered in order to perform a complete search.
N	B29C 49/0412		Group B29C 49/0412 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/0412 should be considered in order to perform a complete search.
N	B29C 49/0665		Group B29C 49/0665 is incomplete pending reclassification of documents from group B29C 49/02. Groups B29C 49/02 and B29C 49/0665 should be considered in order to perform a complete search.
N	B29C 49/0685		Group B29C 49/0685 is incomplete pending reclassification of documents from group B29C 49/02. Groups B29C 49/02 and

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 49/0685 should be considered in order to perform a complete search.
N	B29C 49/06905		Groups B29C 49/06905, B29C 49/0691, B29C 49/06912, B29C 49/06914 and B29C 49/06916 are incomplete pending reclassification of documents from group B29C 49/02. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/071		Group B29C 49/071 is incomplete pending reclassification of documents from group B29C 49/02. Groups B29C 49/02 and B29C 49/071 should be considered in order to perform a complete search.
N	B29C 49/08		Group B29C 49/08 is impacted by reclassification into groups B29C 49/086, B29C 49/087, B29C 49/0871 and B29C 49/0872. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/086		Group B29C 49/086 is incomplete pending reclassification of documents from group B29C 49/08. Groups B29C 49/08 and B29C 49/086 should be considered in order to perform a complete search.
N	B29C 49/087		Groups B29C 49/087, B29C 49/0871 and B29C 49/0872 are incomplete pending reclassification of documents from group B29C 49/08. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/12		Group B29C 49/12 is impacted by reclassification into groups B29C 49/1202, B29C 49/1205, B29C 49/1206, B29C 49/1208, B29C 49/121, B29C 49/1212, B29C 49/1215, B29C 49/1216, B29C 49/1218, B29C 49/122, B29C 49/1222, B29C 49/1224, B29C 49/1226, B29C 49/1229, B29C 49/123, B29C 49/1232 and B29C 49/1602. All groups listed in this Warning should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B29C 49/1202		Group B29C 49/1202 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1202 should be considered in order to perform a complete search.
N	B29C 49/1205		Group B29C 49/1205 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1205 should be considered in order to perform a complete search.
N	B29C 49/1206		Group B29C 49/1206 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1206 should be considered in order to perform a complete search.
N	B29C 49/1208		Group B29C 49/1208 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1208 should be considered in order to perform a complete search.
N	B29C 49/121		Groups B29C 49/121, B29C 49/1212, B29C 49/1215 and B29C 49/1216 are incomplete pending reclassification of documents from group B29C 49/12. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/1218		Group B29C 49/1218 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1218 should be considered in order to perform a complete search.
N	B29C 49/122		Groups B29C 49/122, B29C 49/1222, B29C 49/1224, B29C 49/1226, B29C 49/1229, B29C 49/123 and B29C 49/1232 are incomplete pending reclassification of documents from group B29C 49/12. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/16		Group B29C 49/16 is impacted by reclassification into group B29C 49/1602. Groups B29C 49/16

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			and B29C 49/1602 should be considered in order to perform a complete search.
N	B29C 49/1602		Group B29C 49/1602 is incomplete pending reclassification of documents from groups B29C 49/0042, B29C 49/12 and B29C 49/16. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/18		Group B29C 49/18 is impacted by reclassification into group B29C 49/1802. Groups B29C 49/18 and B29C 49/1802 should be considered in order to perform a complete search.
N	B29C 49/1802		Group B29C 49/1802 is incomplete pending reclassification of documents from group B29C 49/18. Groups B29C 49/18 and B29C 49/1802 should be considered in order to perform a complete search.
N	B29C 49/20		Group B29C 49/20 is impacted by reclassification into group B29C 2049/2071. Groups B29C 49/20 and B29C 2049/2071 should be considered in order to perform a complete search.
N	B29C 2049/2071		Group B29C 2049/2071 is incomplete pending reclassification of documents from group B29C 49/20. Groups B29C 49/20 and B29C 2049/2071 should be considered in order to perform a complete search.
N	B29C 49/22		Group B29C 49/22 is impacted by reclassification into group B29C 2949/00. Groups B29C 49/22 and B29C 2949/00 should be considered in order to perform a complete search.
N	B29C 49/24		Group B29C 49/24 is impacted by reclassification into groups B29C 2049/24302, B29C 2049/24304, B29C 2049/24306, B29C 2049/24308, B29C 2049/2442, B29C 49/249 and B29C 49/251. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 2049/24302		Groups B29C 2049/24302, B29C 2049/24304 and

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 2049/24306 are incomplete pending reclassification of documents from group B29C 49/24. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 2049/24308		Group B29C 2049/24308 is incomplete pending reclassification of documents from group B29C 49/24. Groups B29C 49/24 and B29C 2049/24308 should be considered in order to perform a complete search.
N	B29C 2049/2442		Group B29C 2049/2442 is incomplete pending reclassification of documents from group B29C 49/24. Groups B29C 49/24 and B29C 2049/2442 should be considered in order to perform a complete search.
N	B29C 49/249		Group B29C 49/249 is incomplete pending reclassification of documents from group B29C 49/24. Groups B29C 49/24 and B29C 49/249 should be considered in order to perform a complete search.
N	B29C 49/251		Group B29C 49/251 is incomplete pending reclassification of documents from group B29C 49/24. Groups B29C 49/24 and B29C 49/251 should be considered in order to perform a complete search.
N	B29C 49/28		Group B29C 49/28 is impacted by reclassification into groups B29C 49/28002, B29C 49/28004, B29C 49/28006, B29C 49/28008 and B29C 49/28012. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/28002		Group B29C 49/28002 is incomplete pending reclassification of documents from group B29C 49/28. Groups B29C 49/28 and B29C 49/28002 should be considered in order to perform a complete search.
N	B29C 49/28004		Group B29C 49/28004 is incomplete pending reclassification of documents from group B29C 49/28. Groups B29C 49/28 and B29C 49/28004 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B29C 49/28006		Group B29C 49/28006 is incomplete pending reclassification of documents from group B29C 49/28. Groups B29C 49/28 and B29C 49/28006 should be considered in order to perform a complete search.
N	B29C 49/28008		Group B29C 49/28008 is incomplete pending reclassification of documents from group B29C 49/28. Groups B29C 49/28 and B29C 49/28008 should be considered in order to perform a complete search.
N	B29C 49/28012		Group B29C 49/28012 is incomplete pending reclassification of documents from group B29C 49/28. Groups B29C 49/28 and B29C 49/28012 should be considered in order to perform a complete search.
N	B29C 49/42		Group B29C 49/42 is impacted by reclassification into groups B29C 49/42378, B29C 49/4238, B29C 49/42382, B29C 49/42384, B29C 49/42386, B29C 49/42388, B29C 49/4239, B29C 49/42392, B29C 49/42394, B29C 49/42396, B29C 49/42398, B29C 49/424, B29C 49/42402, B29C 49/42403, B29C 49/42405, B29C 49/42407, B29C 49/42408, B29C 49/42409, B29C 49/4241, B29C 49/42412, B29C 49/42413, B29C 49/42414, B29C 49/42416, B29C 49/42418, B29C 49/4242, B29C 49/42421, B29C 49/42422, B29C 49/42424, B29C 49/42426, B29C 49/42428, B29C 49/4244, B29C 49/42442, B29C 49/42444, B29C 49/42446, B29C 49/42448, B29C 49/4245, B29C 49/42452, B29C 49/42454, B29C 49/425, B29C 49/4251, B29C 49/427, B29C 49/428, B29C 49/42802, B29C 49/42806, B29C 49/42808, B29C 49/42809, B29C 49/4281, B29C 49/42811, B29C 49/42815, B29C 49/42817, B29C 49/4282, B29C 49/42822, B29C 49/42824, B29C 49/42826, B29C 49/42828, B29C 49/4283, B29C 49/42832, B29C 49/42834, B29C 49/42836, B29C 49/42845, B29C 49/4285, B29C 49/42855, B29C 49/4286, B29C 49/42865, B29C 49/4287, B29C 2049/4296,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 2049/4298 and B29C 2049/431. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/4205		Group B29C 49/4205 is impacted by reclassification into groups B29C 49/42051, B29C 49/42053, B29C 49/42055, B29C 49/42057, B29C 49/42059, B29C 49/42061, B29C 49/42063, B29C 49/42065, B29C 49/42067, B29C 49/42069, B29C 49/4207, B29C 49/42071, B29C 49/42073, B29C 49/42075, B29C 49/42077, B29C 49/42079, B29C 49/42081, B29C 49/42083, B29C 49/42085, B29C 49/42087, B29C 49/42089, B29C 49/42091, B29C 49/42093, B29C 49/42095, B29C 49/42097, B29C 49/42099, B29C 49/42101, B29C 49/42103, B29C 49/42105, B29C 49/42107, B29C 49/42109, B29C 49/42111, B29C 49/42113, B29C 49/42115, B29C 49/42117, B29C 49/42119, B29C 49/42121 and B29C 49/42155. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42051		Groups B29C 49/42051, B29C 49/42053, B29C 49/42055, B29C 49/42057, B29C 49/42059, B29C 49/42061 and B29C 49/42063 are incomplete pending reclassification of documents from group B29C 49/4205. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42065		Groups B29C 49/42065 and B29C 49/42067 are incomplete pending reclassification of documents from group B29C 49/4205. Groups B29C 49/4205, B29C 49/42065 and B29C 49/42067 should be considered in order to perform a complete search.
N	B29C 49/42069		Groups B29C 49/42069 and B29C 49/4207 are incomplete pending reclassification of documents from group B29C 49/4205. Groups B29C 49/4205, B29C 49/42069 and

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 49/4207 should be considered in order to perform a complete search.
N	B29C 49/42071		Group B29C 49/42071 is incomplete pending reclassification of documents from group B29C 49/4205. Groups B29C 49/4205 and B29C 49/42071 should be considered in order to perform a complete search.
N	B29C 49/42073		Groups B29C 49/42073, B29C 49/42075, B29C 49/42077, B29C 49/42079, B29C 49/42081, B29C 49/42083, B29C 49/42085, B29C 49/42087, B29C 49/42089 and B29C 49/42091 are incomplete pending reclassification of documents from group B29C 49/4205. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42093		Groups B29C 49/42093, B29C 49/42095, B29C 49/42097, B29C 49/42099, B29C 49/42101, B29C 49/42103, B29C 49/42105, B29C 49/42107, B29C 49/42109 and B29C 49/42111 are incomplete pending reclassification of documents from group B29C 49/4205. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42113		Groups B29C 49/42113, B29C 49/42115, B29C 49/42117, B29C 49/42119, B29C 49/42121 and B29C 49/42155 are incomplete pending reclassification of documents from group B29C 49/4205. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/4236		Group B29C 49/4236 is impacted by reclassification into groups B29C 49/42362, B29C 49/4237, B29C 49/42372, B29C 49/42374 and B29C 49/42376. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42362		Group B29C 49/42362 is incomplete pending reclassification of documents from group B29C 49/4236. Groups

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 49/4236 and B29C 49/42362 should be considered in order to perform a complete search.
N	B29C 49/4237		Group B29C 49/4237 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/4237 should be considered in order to perform a complete search.
N	B29C 49/42372		Group B29C 49/42372 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/42372 should be considered in order to perform a complete search.
N	B29C 49/42374		Group B29C 49/42374 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/42374 should be considered in order to perform a complete search.
N	B29C 49/42376		Group B29C 49/42376 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/42376 should be considered in order to perform a complete search.
N	B29C 49/42378		Groups B29C 49/42378, B29C 49/4238 and B29C 49/42382 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42384		Group B29C 49/42384 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42384 should be considered in order to perform a complete search.
N	B29C 49/42386		Group B29C 49/42386 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42386 should be considered in order to perform a complete search.
N	B29C 49/42388		Group B29C 49/42388 is incomplete pending reclassification of documents from group

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 49/42. Groups B29C 49/42 and B29C 49/42388 should be considered in order to perform a complete search.
N	B29C 49/4239		Group B29C 49/4239 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/4239 should be considered in order to perform a complete search.
N	B29C 49/42392		Group B29C 49/42392 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42392 should be considered in order to perform a complete search.
N	B29C 49/42394		Groups B29C 49/42394 and B29C 49/42396 are incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42, B29C 49/42394 and B29C 49/42396 should be considered in order to perform a complete search.
N	B29C 49/42398		Groups B29C 49/42398, B29C 49/424 and B29C 49/42402 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42403		Groups B29C 49/42403 and B29C 49/42405 are incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42, B29C 49/42403 and B29C 49/42405 should be considered in order to perform a complete search.
N	B29C 49/42407		Groups B29C 49/42407, B29C 49/42408, B29C 49/42409 and B29C 49/4241 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42412		Groups B29C 49/42412 and B29C 49/42413 are incomplete pending reclassification of documents from group B29C 49/42.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			Groups B29C 49/42, B29C 49/42412 and B29C 49/42413 should be considered in order to perform a complete search.
N	B29C 49/42414		Groups B29C 49/42414, B29C 49/42416 and B29C 49/42418 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/4242		Groups B29C 49/4242, B29C 49/42421, B29C 49/42422, B29C 49/42424, B29C 49/42426, B29C 49/42428, B29C 49/4244, B29C 49/42442, B29C 49/42444, B29C 49/42446, B29C 49/42448, B29C 49/4245, B29C 49/42452, B29C 49/42454, B29C 49/425 and B29C 49/4251 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/4268		Group B29C 49/4268 is incomplete pending reclassification of documents from groups B29C 49/64, B29C 49/76 and B29C 49/78. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/427		Group B29C 49/427 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/427 should be considered in order to perform a complete search.
N	B29C 49/4273		Group B29C 49/4273 is incomplete pending reclassification of documents from groups B29C 49/64, B29C 49/70, B29C 49/76 and B29C 49/78. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/428		Groups B29C 49/428, B29C 49/42802 and B29C 49/42806 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			should be considered in order to perform a complete search.
N	B29C 49/42808		Groups B29C 49/42808, B29C 49/42809, B29C 49/4281 and B29C 49/42811 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/42815		Group B29C 49/42815 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42815 should be considered in order to perform a complete search.
N	B29C 49/42817		Group B29C 49/42817 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42817 should be considered in order to perform a complete search.
N	B29C 49/4282		Groups B29C 49/4282 and B29C 49/42822 are incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42, B29C 49/4282 and B29C 49/42822 should be considered in order to perform a complete search.
N	B29C 49/42824		Group B29C 49/42824 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42824 should be considered in order to perform a complete search.
N	B29C 49/42826		Group B29C 49/42826 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42826 should be considered in order to perform a complete search.
N	B29C 49/42828		Group B29C 49/42828 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42828 should be considered in order to perform a complete search.
N	B29C 49/4283		Groups B29C 49/4283, B29C 49/42832, B29C 49/42834 and B29C 49/42836 are incomplete

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/4284		Group B29C 49/4284 is impacted by reclassification into groups B29C 49/42845-B29C 49/4287. Groups B29C 49/4284 and B29C 49/42845-B29C 49/4287 should be considered in order to perform a complete search.
N	B29C 49/42845		Groups B29C 49/42845, B29C 49/4285 and B29C 49/42855 are incomplete pending reclassification of documents from groups B29C 49/42 and B29C 49/4284. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/4286		Group B29C 49/4286 is incomplete pending reclassification of documents from groups B29C 49/42 and B29C 49/4284. Groups B29C 49/42, B29C 49/4284 and B29C 49/4286 should be considered in order to perform a complete search.
N	B29C 49/42865		Group B29C 49/42865 is incomplete pending reclassification of documents from groups B29C 49/42 and B29C 49/4284. Groups B29C 49/42, B29C 49/4284 and B29C 49/42865 should be considered in order to perform a complete search.
N	B29C 49/4287		Group B29C 49/4287 is incomplete pending reclassification of documents from groups B29C 49/42 and B29C 49/4284. Groups B29C 49/42, B29C 49/4284 and B29C 49/4287 should be considered in order to perform a complete search.
N	B29C 2049/4296		Group B29C 2049/4296 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 2049/4296 should be considered in order to perform a complete search.
N	B29C 2049/4298		Group B29C 2049/4298 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			and B29C 2049/4298 should be considered in order to perform a complete search.
N	B29C 2049/431		Group B29C 2049/431 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 2049/431 should be considered in order to perform a complete search.
N	B29C 49/46		Group B29C 49/46 is impacted by reclassification into groups B29C 2049/4698 and B29C 2049/4699. Groups B29C 49/46, B29C 2049/4698 and B29C 2049/4699 should be considered in order to perform a complete search.
N	B29C 2049/4698		Group B29C 2049/4698 is incomplete pending reclassification of documents from group B29C 49/46. Groups B29C 49/46 and B29C 2049/4698 should be considered in order to perform a complete search.
N	B29C 2049/4699		Group B29C 2049/4699 is incomplete pending reclassification of documents from group B29C 49/46. Groups B29C 49/46 and B29C 2049/4699 should be considered in order to perform a complete search.
N	B29C 49/48		Group B29C 49/48 is impacted by reclassification into groups B29C 49/48185, B29C 49/4819, B29C 2049/48615, B29C 2049/4862, B29C 2049/4863, B29C 2049/4874, B29C 2049/4881, B29C 2049/48825 and B29C 2049/4883. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/48185		Groups B29C 49/48185 and B29C 49/4819 are incomplete pending reclassification of documents from group B29C 49/48. Groups B29C 49/48, B29C 49/48185 and B29C 49/4819 should be considered in order to perform a complete search.
N	B29C 2049/48615		Group B29C 2049/48615 is incomplete pending reclassification of documents from group B29C 49/48. Groups B29C 49/48 and B29C 2049/48615 should be

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			considered in order to perform a complete search.
N	B29C 2049/4862		Group B29C 2049/4862 is incomplete pending reclassification of documents from group B29C 49/48. Groups B29C 49/48 and B29C 2049/4862 should be considered in order to perform a complete search.
N	B29C 2049/4863		Group B29C 2049/4863 is incomplete pending reclassification of documents from group B29C 49/48. Groups B29C 49/48 and B29C 2049/4863 should be considered in order to perform a complete search.
N	B29C 2049/4874		Group B29C 2049/4874 is incomplete pending reclassification of documents from group B29C 49/48. Groups B29C 49/48 and B29C 2049/4874 should be considered in order to perform a complete search.
N	B29C 2049/4881		Group B29C 2049/4881 is incomplete pending reclassification of documents from group B29C 49/48. Groups B29C 49/48 and B29C 2049/4881 should be considered in order to perform a complete search.
N	B29C 2049/4882		Group B29C 2049/4882 is impacted by reclassification into groups B29C 2049/48825 and B29C 2049/4883. Groups B29C 2049/4882, B29C 2049/48825 and B29C 2049/4883 should be considered in order to perform a complete search.
N	B29C 2049/48825		Group B29C 2049/48825 is incomplete pending reclassification of documents from groups B29C 49/48 and B29C 2049/4882. Groups B29C 49/48, B29C 2049/4882 and B29C 2049/48825 should be considered in order to perform a complete search.
N	B29C 2049/4883		Group B29C 2049/4883 is incomplete pending reclassification of documents from groups B29C 49/48 and B29C 2049/4882. Groups B29C 49/48, B29C 2049/4882 and B29C 2049/4883 should be

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			considered in order to perform a complete search.
N	B29C 49/56		Group B29C 49/56 is impacted by reclassification into groups B29C 49/5601, B29C 49/5602, B29C 49/5603, B29C 49/5604, B29C 49/5605, B29C 49/5606, B29C 49/5607, B29C 49/5608, B29C 49/561, B29C 49/5611, B29C 49/5612, B29C 49/5613, B29C 49/5614, B29C 2049/5631, B29C 2049/5632, B29C 2049/5633, B29C 2049/5634, B29C 2049/5635, B29C 2049/5636, B29C 2049/5661, B29C 2049/5662, B29C 2049/5663, B29C 2049/5664, B29C 2049/5665 and B29C 2049/5666. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/5601		Groups B29C 49/5601, B29C 49/5602, B29C 49/5603 and B29C 49/5604 are incomplete pending reclassification of documents from group B29C 49/56. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/5605		Group B29C 49/5605 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5605 should be considered in order to perform a complete search.
N	B29C 49/5606		Group B29C 49/5606 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5606 should be considered in order to perform a complete search.
N	B29C 49/5607		Group B29C 49/5607 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5607 should be considered in order to perform a complete search.
N	B29C 49/5608		Group B29C 49/5608 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5608 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B29C 49/561		Group B29C 49/561 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/561 should be considered in order to perform a complete search.
N	B29C 49/5611		Group B29C 49/5611 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5611 should be considered in order to perform a complete search.
N	B29C 49/5612		Group B29C 49/5612 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5612 should be considered in order to perform a complete search.
N	B29C 49/5613		Group B29C 49/5613 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5613 should be considered in order to perform a complete search.
N	B29C 49/5614		Group B29C 49/5614 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5614 should be considered in order to perform a complete search.
N	B29C 2049/5631		Group B29C 2049/5631 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 2049/5631 should be considered in order to perform a complete search.
N	B29C 2049/5632		Group B29C 2049/5632 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 2049/5632 should be considered in order to perform a complete search.
N	B29C 2049/5633		Group B29C 2049/5633 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 2049/5633 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B29C 2049/5634		Group B29C 2049/5634 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 2049/5634 should be considered in order to perform a complete search.
N	B29C 2049/5635		Group B29C 2049/5635 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 2049/5635 should be considered in order to perform a complete search.
N	B29C 2049/5636		Group B29C 2049/5636 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 2049/5636 should be considered in order to perform a complete search.
N	B29C 2049/5661		Groups B29C 2049/5661, B29C 2049/5662, B29C 2049/5663 and B29C 2049/5664 are incomplete pending reclassification of documents from group B29C 49/56. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 2049/5665		Group B29C 2049/5665 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 2049/5665 should be considered in order to perform a complete search.
N	B29C 2049/5666		Group B29C 2049/5666 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 2049/5666 should be considered in order to perform a complete search.
N	B29C 2049/5893		Group B29C 2049/5893 is impacted by reclassification into group B29C 2049/5898. Groups B29C 2049/5893 and B29C 2049/5898 should be considered in order to perform a complete search.
N	B29C 2049/5898		Group B29C 2049/5898 is incomplete pending reclassification of documents from group B29C 2049/5893. Groups B29C 2049/5893 and

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 2049/5898 should be considered in order to perform a complete search.
N	B29C 49/60		Group B29C 49/60 is impacted by reclassification into groups B29C 2049/6091 and B29C 2049/6092. Groups B29C 49/60, B29C 2049/6091 and B29C 2049/6092 should be considered in order to perform a complete search.
N	B29C 2049/6091		Group B29C 2049/6091 is incomplete pending reclassification of documents from group B29C 49/60. Groups B29C 49/60 and B29C 2049/6091 should be considered in order to perform a complete search.
N	B29C 2049/6092		Group B29C 2049/6092 is incomplete pending reclassification of documents from group B29C 49/60. Groups B29C 49/60 and B29C 2049/6092 should be considered in order to perform a complete search.
N	B29C 49/62		Group B29C 49/62 is impacted by reclassification into groups B29C 2049/6271 and B29C 2049/6272. Groups B29C 49/62, B29C 2049/6271 and B29C 2049/6272 should be considered in order to perform a complete search.
N	B29C 2049/6271		Groups B29C 2049/6271 and B29C 2049/6272 are incomplete pending reclassification of documents from group B29C 49/62. Groups B29C 49/62, B29C 2049/6271 and B29C 2049/6272 should be considered in order to perform a complete search.
N	B29C 49/64		Group B29C 49/64 is impacted by reclassification into groups B29C 49/4268, B29C 49/4273, B29C 49/6419, B29C 49/64195, B29C 49/642, B29C 49/6427, B29C 49/643, B29C 49/6435, B29C 49/645, B29C 49/6452, B29C 49/6458, B29C 49/6462, B29C 49/6464, B29C 49/6465, B29C 49/6466, B29C 49/6467 and B29C 49/648. All groups listed in this Warning should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B29C 49/6419		Group B29C 49/6419 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6419 should be considered in order to perform a complete search.
N	B29C 49/64195		Group B29C 49/64195 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/64195 should be considered in order to perform a complete search.
N	B29C 49/642		Group B29C 49/642 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/642 should be considered in order to perform a complete search.
N	B29C 49/6427		Groups B29C 49/6427, B29C 49/643 and B29C 49/6435 are incomplete pending reclassification of documents from group B29C 49/64. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/645		Group B29C 49/645 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/645 should be considered in order to perform a complete search.
N	B29C 49/6452		Group B29C 49/6452 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6452 should be considered in order to perform a complete search.
N	B29C 49/6458		Group B29C 49/6458 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6458 should be considered in order to perform a complete search.
N	B29C 49/6462		Group B29C 49/6462 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6462 should be considered

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			in order to perform a complete search.
N	B29C 49/6464		Group B29C 49/6464 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6464 should be considered in order to perform a complete search.
N	B29C 49/6465		Group B29C 49/6465 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6465 should be considered in order to perform a complete search.
N	B29C 49/6466		Group B29C 49/6466 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6466 should be considered in order to perform a complete search.
N	B29C 49/6467		Group B29C 49/6467 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6467 should be considered in order to perform a complete search.
N	B29C 49/648		Group B29C 49/648 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/648 should be considered in order to perform a complete search.
N	B29C 49/66		Group B29C 49/66 is impacted by reclassification into groups B29C 49/6604, B29C 49/6605, B29C 49/66055, B29C 2049/6606 and B29C 2049/671. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/6604		Groups B29C 49/6604, B29C 49/6605, B29C 49/66055, B29C 2049/6606 and B29C 2049/671 are incomplete pending reclassification of documents from group B29C 49/66. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/68		Group B29C 49/68 is impacted by reclassification into groups

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 49/681, B29C 49/682, B29C 49/6825, B29C 49/683, B29C 49/6835, B29C 49/684, B29C 49/6845, B29C 49/685 and B29C 49/6855. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/681		Group B29C 49/681 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/681 should be considered in order to perform a complete search.
N	B29C 49/682		Group B29C 49/682 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/682 should be considered in order to perform a complete search.
N	B29C 49/6825		Group B29C 49/6825 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/6825 should be considered in order to perform a complete search.
N	B29C 49/683		Group B29C 49/683 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/683 should be considered in order to perform a complete search.
N	B29C 49/6835		Group B29C 49/6835 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/6835 should be considered in order to perform a complete search.
N	B29C 49/684		Group B29C 49/684 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/684 should be considered in order to perform a complete search.
N	B29C 49/6845		Group B29C 49/6845 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/6845 should be considered

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			in order to perform a complete search.
N	B29C 49/685		Group B29C 49/685 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/685 should be considered in order to perform a complete search.
N	B29C 49/6855		Group B29C 49/6855 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/6855 should be considered in order to perform a complete search.
N	B29C 49/70		Group B29C 49/70 is impacted by reclassification into groups B29C 49/4273 and B29C 2049/709. Groups B29C 49/70, B29C 49/4273 and B29C 2049/709 should be considered in order to perform a complete search.
N	B29C 2049/709		Group B29C 2049/709 is incomplete pending reclassification of documents from group B29C 49/70. Groups B29C 49/70 and B29C 2049/709 should be considered in order to perform a complete search.
N	B29C 49/76		Group B29C 49/76 is impacted by reclassification into groups B29C 49/4268, B29C 49/4273 and B29C 49/761. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/761		Group B29C 49/761 is incomplete pending reclassification of documents from group B29C 49/76. Groups B29C 49/76 and B29C 49/761 should be considered in order to perform a complete search.
N	B29C 49/78		Group B29C 49/78 is impacted by reclassification into groups B29C 49/4268, B29C 49/4273, B29C 2049/7831, B29C 2049/7832, B29C 2049/7833, B29C 2049/7834, B29C 2049/7835, B29C 2049/7861, B29C 2049/7862, B29C 2049/7863, B29C 2049/7864, B29C 2049/78645, B29C 2049/7865, B29C 2049/7866, B29C 2049/7867, B29C 2049/78675,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 2049/7868, B29C 2049/787, B29C 2049/78705, B29C 2049/7871, B29C 2049/78715, B29C 2049/7873, B29C 2049/7874, B29C 2049/78745, B29C 2049/7875, B29C 2049/78755, B29C 2049/7876, B29C 2049/78765, B29C 2049/7878, B29C 2049/7879, B29C 2049/788, B29C 2049/78805, B29C 2049/7881, B29C 2049/78815 and B29C 2049/7882. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 2049/7831		Group B29C 2049/7831 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7831 should be considered in order to perform a complete search.
N	B29C 2049/7832		Groups B29C 2049/7832 and B29C 2049/7833 are incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78, B29C 2049/7832 and B29C 2049/7833 should be considered in order to perform a complete search.
N	B29C 2049/7834		Group B29C 2049/7834 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7834 should be considered in order to perform a complete search.
N	B29C 2049/7835		Group B29C 2049/7835 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7835 should be considered in order to perform a complete search.
N	B29C 2049/7861		Groups B29C 2049/7861, B29C 2049/7862 and B29C 2049/7863 are incomplete pending reclassification of documents from group B29C 49/78. All groups listed in this Warning should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B29C 2049/7864		Groups B29C 2049/7864 and B29C 2049/78645 are incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78, B29C 2049/7864 and B29C 2049/78645 should be considered in order to perform a complete search.
N	B29C 2049/7865		Group B29C 2049/7865 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7865 should be considered in order to perform a complete search.
N	B29C 2049/7866		Group B29C 2049/7866 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7866 should be considered in order to perform a complete search.
N	B29C 2049/7867		Groups B29C 2049/7867 and B29C 2049/78675 are incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78, B29C 2049/7867 and B29C 2049/78675 should be considered in order to perform a complete search.
N	B29C 2049/7868		Group B29C 2049/7868 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7868 should be considered in order to perform a complete search.
N	B29C 2049/787		Groups B29C 2049/787, B29C 2049/78705, B29C 2049/7871 and B29C 2049/78715 are incomplete pending reclassification of documents from group B29C 49/78. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 2049/7873		Group B29C 2049/7873 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7873 should be considered in order to perform a complete search.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B29C 2049/7874		Groups B29C 2049/7874, B29C 2049/78745, B29C 2049/7875, B29C 2049/78755, B29C 2049/7876 and B29C 2049/78765 are incomplete pending reclassification of documents from group B29C 49/78. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 2049/7878		Group B29C 2049/7878 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7878 should be considered in order to perform a complete search.
N	B29C 2049/7879		Group B29C 2049/7879 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7879 should be considered in order to perform a complete search.
N	B29C 2049/788		Groups B29C 2049/788, B29C 2049/78805, B29C 2049/7881, B29C 2049/78815 and B29C 2049/7882 are incomplete pending reclassification of documents from group B29C 49/78. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 49/80		Group B29C 49/80 is impacted by reclassification into group B29C 2049/801. Groups B29C 49/80 and B29C 2049/801 should be considered in order to perform a complete search.
N	B29C 2049/801		Group B29C 2049/801 is incomplete pending reclassification of documents from group B29C 49/80. Groups B29C 49/80 and B29C 2049/801 should be considered in order to perform a complete search.
N	B29C 2949/00		Group B29C 2949/00 is incomplete pending reclassification of documents from group B29C 49/22. Group B29C 2949/00 is also impacted by reclassification into groups B29C 2949/07, B29C 2949/071, B29C 2949/0715, B29C 2949/072, B29C 2949/0721,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 2949/0722, B29C 2949/0723, B29C 2949/0724, B29C 2949/0725, B29C 2949/073, B29C 2949/0731, B29C 2949/0732, B29C 2949/0733, B29C 2949/0734, B29C 2949/074, B29C 2949/0741, B29C 2949/0742, B29C 2949/0744, B29C 2949/0745, B29C 2949/0746, B29C 2949/0747, B29C 2949/075, B29C 2949/0751, B29C 2949/0752, B29C 2949/0753, B29C 2949/0754, B29C 2949/076, B29C 2949/0761, B29C 2949/0762, B29C 2949/0763, B29C 2949/0764, B29C 2949/0765, B29C 2949/0766, B29C 2949/0767, B29C 2949/0768, B29C 2949/0769, B29C 2949/077, B29C 2949/0771, B29C 2949/0772, B29C 2949/0773, B29C 2949/0774, B29C 2949/0775, B29C 2949/0776, B29C 2949/0777, B29C 2949/0778, B29C 2949/0779, B29C 2949/078, B29C 2949/0781, B29C 2949/0782, B29C 2949/079, B29C 2949/0791, B29C 2949/0792, B29C 2949/0793, B29C 2949/0794, B29C 2949/0795, B29C 2949/0796, B29C 2949/0797, B29C 2949/0798, B29C 2949/0799, B29C 2949/08, B29C 2949/0801, B29C 2949/081, B29C 2949/0811, B29C 2949/0812, B29C 2949/0813, B29C 2949/0814, B29C 2949/0815, B29C 2949/0816, B29C 2949/0817, B29C 2949/0818, B29C 2949/0819, B29C 2949/082, B29C 2949/0821, B29C 2949/0822, B29C 2949/0823, B29C 2949/0824, B29C 2949/0825, B29C 2949/0826, B29C 2949/0827, B29C 2949/0828, B29C 2949/0829, B29C 2949/083, B29C 2949/0831, B29C 2949/0832, B29C 2949/0833, B29C 2949/0834, B29C 2949/0835, B29C 2949/0836, B29C 2949/0837, B29C 2949/0838, B29C 2949/0839, B29C 2949/084, B29C 2949/0841, B29C 2949/0842, B29C 2949/0843, B29C 2949/0844, B29C 2949/0845, B29C 2949/0846, B29C 2949/0847, B29C 2949/0849, B29C 2949/085, B29C 2949/0851, B29C 2949/0852, B29C 2949/0853, B29C 2949/0854, B29C 2949/0855, B29C 2949/0856, B29C 2949/086, B29C 2949/0861, B29C 2949/0862, B29C 2949/0863, B29C 2949/0864, B29C 2949/0865, B29C 2949/0866, B29C 2949/0867, B29C 2949/0868, B29C 2949/0869,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 2949/087, B29C 2949/0871, B29C 2949/0872, B29C 2949/20, B29C 2949/22, B29C 2949/24, B29C 2949/26, B29C 2949/28, B29C 2949/30, B29C 2949/3004, B29C 2949/3006, B29C 2949/3008, B29C 2949/3009, B29C 2949/3012, B29C 2949/3014, B29C 2949/3016, B29C 2949/3018, B29C 2949/302, B29C 2949/3022, B29C 2949/3024, B29C 2949/3026, B29C 2949/3028, B29C 2949/303, B29C 2949/3032, B29C 2949/3034, B29C 2949/3036, B29C 2949/3038, B29C 2949/3041, B29C 2949/3042, B29C 2949/3044, B29C 2949/3046, B29C 2949/3048, B29C 2949/3051, B29C 2949/3052, B29C 2949/3054, B29C 2949/3056, B29C 2949/3058, B29C 2949/306, B29C 2949/3062, B29C 2949/3064, B29C 2949/3066, B29C 2949/3068, B29C 2949/307, B29C 2949/3074, B29C 2949/3076, B29C 2949/3078, B29C 2949/308, B29C 2949/3082, B29C 2949/3084, B29C 2949/3086, B29C 2949/3088, B29C 2949/309, B29C 2949/3092 and B29C 2949/3094. All groups listed in this Warning should be considered in order to perform a complete search.
N	B29C 2949/07		Groups B29C 2949/07, B29C 2949/071, B29C 2949/0715, B29C 2949/072, B29C 2949/0721, B29C 2949/0722, B29C 2949/0723, B29C 2949/0724, B29C 2949/0725, B29C 2949/073, B29C 2949/0731, B29C 2949/0732, B29C 2949/0733, B29C 2949/0734, B29C 2949/074, B29C 2949/0741, B29C 2949/0742, B29C 2949/0744, B29C 2949/0745, B29C 2949/0746, B29C 2949/0747, B29C 2949/075, B29C 2949/0751, B29C 2949/0752, B29C 2949/0753, B29C 2949/0754, B29C 2949/076, B29C 2949/0761, B29C 2949/0762, B29C 2949/0763, B29C 2949/0764, B29C 2949/0765, B29C 2949/0766, B29C 2949/0767, B29C 2949/0768, B29C 2949/0769, B29C 2949/077, B29C 2949/0771, B29C 2949/0772, B29C 2949/0773, B29C 2949/0774, B29C 2949/0775, B29C 2949/0776, B29C 2949/0777, B29C 2949/0778, B29C 2949/0779, B29C 2949/078, B29C 2949/0781, B29C 2949/0782,

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			<p>B29C 2949/079, B29C 2949/0791, B29C 2949/0792, B29C 2949/0793, B29C 2949/0794, B29C 2949/0795, B29C 2949/0796, B29C 2949/0797, B29C 2949/0798, B29C 2949/0799, B29C 2949/08, B29C 2949/0801, B29C 2949/081, B29C 2949/0811, B29C 2949/0812, B29C 2949/0813, B29C 2949/0814, B29C 2949/0815, B29C 2949/0816, B29C 2949/0817, B29C 2949/0818, B29C 2949/0819, B29C 2949/082, B29C 2949/0821, B29C 2949/0822, B29C 2949/0823, B29C 2949/0824, B29C 2949/0825, B29C 2949/0826, B29C 2949/0827, B29C 2949/0828, B29C 2949/0829, B29C 2949/083, B29C 2949/0831, B29C 2949/0832, B29C 2949/0833, B29C 2949/0834, B29C 2949/0835, B29C 2949/0836, B29C 2949/0837, B29C 2949/0838, B29C 2949/0839, B29C 2949/084, B29C 2949/0841, B29C 2949/0842, B29C 2949/0843, B29C 2949/0844, B29C 2949/0845, B29C 2949/0846, B29C 2949/0847, B29C 2949/0849, B29C 2949/085, B29C 2949/0851, B29C 2949/0852, B29C 2949/0853, B29C 2949/0854, B29C 2949/0855, B29C 2949/0856, B29C 2949/086, B29C 2949/0861, B29C 2949/0862, B29C 2949/0863, B29C 2949/0864, B29C 2949/0865, B29C 2949/0866, B29C 2949/0867, B29C 2949/0868, B29C 2949/0869, B29C 2949/087, B29C 2949/0871 and B29C 2949/0872 are incomplete pending reclassification of documents from group B29C 2949/00. All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	B29C 2949/20		<p>Groups B29C 2949/20, B29C 2949/22, B29C 2949/24, B29C 2949/26 and B29C 2949/28 are incomplete pending reclassification of documents from group B29C 2949/00. All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	B29C 2949/30		<p>Groups B29C 2949/30, B29C 2949/3004, B29C 2949/3006, B29C 2949/3008, B29C 2949/3009, B29C 2949/3012, B29C 2949/3014, B29C 2949/3016, B29C 2949/3018,</p>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
			B29C 2949/302, B29C 2949/3022, B29C 2949/3024, B29C 2949/3026, B29C 2949/3028, B29C 2949/303, B29C 2949/3032, B29C 2949/3034, B29C 2949/3036, B29C 2949/3038, B29C 2949/3041, B29C 2949/3042, B29C 2949/3044, B29C 2949/3046, B29C 2949/3048, B29C 2949/3051, B29C 2949/3052, B29C 2949/3054, B29C 2949/3056, B29C 2949/3058, B29C 2949/306, B29C 2949/3062, B29C 2949/3064, B29C 2949/3066, B29C 2949/3068, B29C 2949/307, B29C 2949/3074, B29C 2949/3076, B29C 2949/3078, B29C 2949/308, B29C 2949/3082, B29C 2949/3084, B29C 2949/3086, B29C 2949/3088, B29C 2949/309, B29C 2949/3092 and B29C 2949/3094 are incomplete pending reclassification of documents from group B29C 2949/00. All groups listed in this Warning should be considered in order to perform a complete search.

*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

2. A. Definitions (new)

Insert: The following new Definitions.

B29C 49/0006

Definition statement

This place covers:

Modification or selection of the moulding material to facilitate heating or cooling.

B29C 49/0022

Definition statement

This place covers:

Details of the device to return the moulding section to a receiving portion of the parison.

B29C 49/0023

Definition statement

This place covers:

Relative movement of the mould table or support of the extrusion nozzle for alignment of the apparatus.

B29C 49/0024

Definition statement

This place covers:

Modification of the mould speed to account for changes in mould geometry or extrudate thickness. Usually to form a product having uniform thickness.

B29C 49/0025

Definition statement

This place covers:

Indefinite length moulding apparatus which has cavities of different configurations along the mould path.

Illustrative example of subject matter classified in this group:

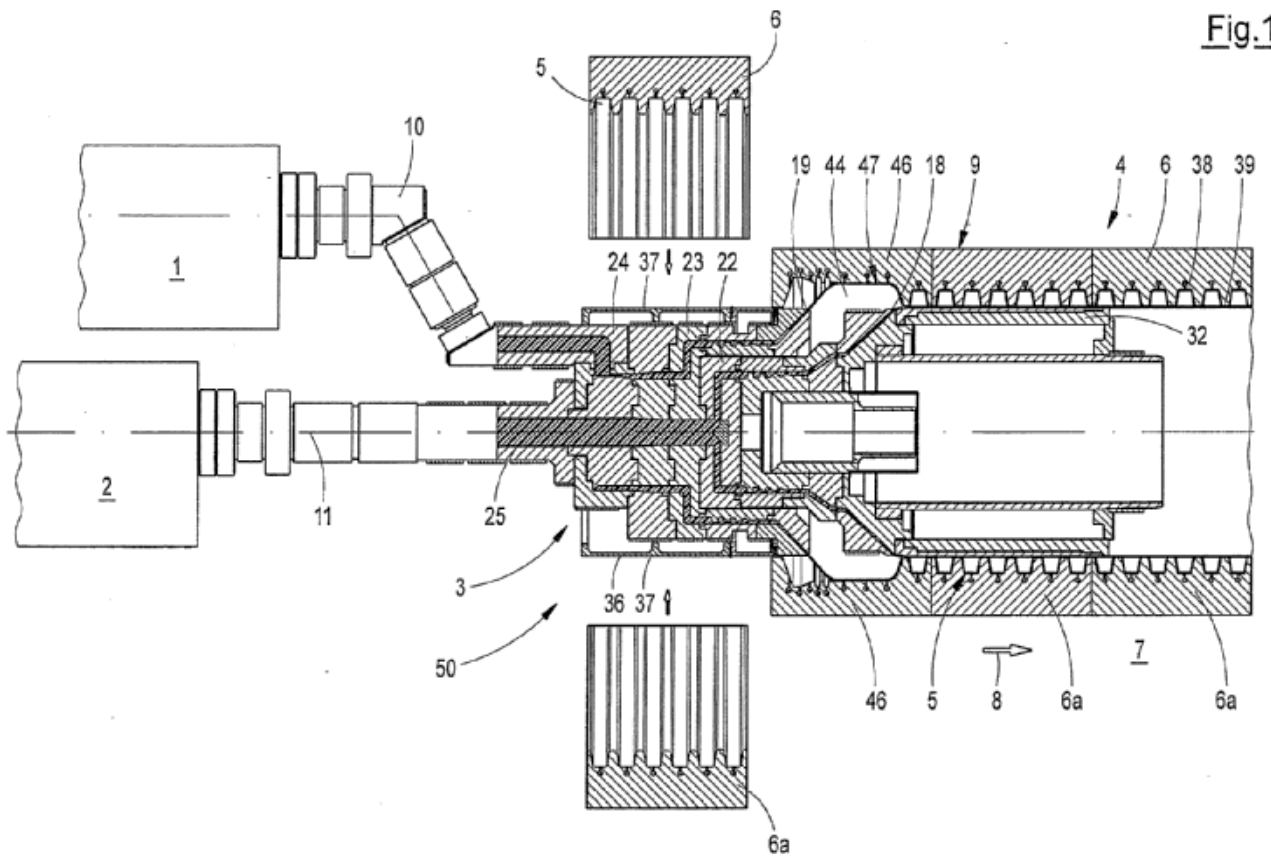
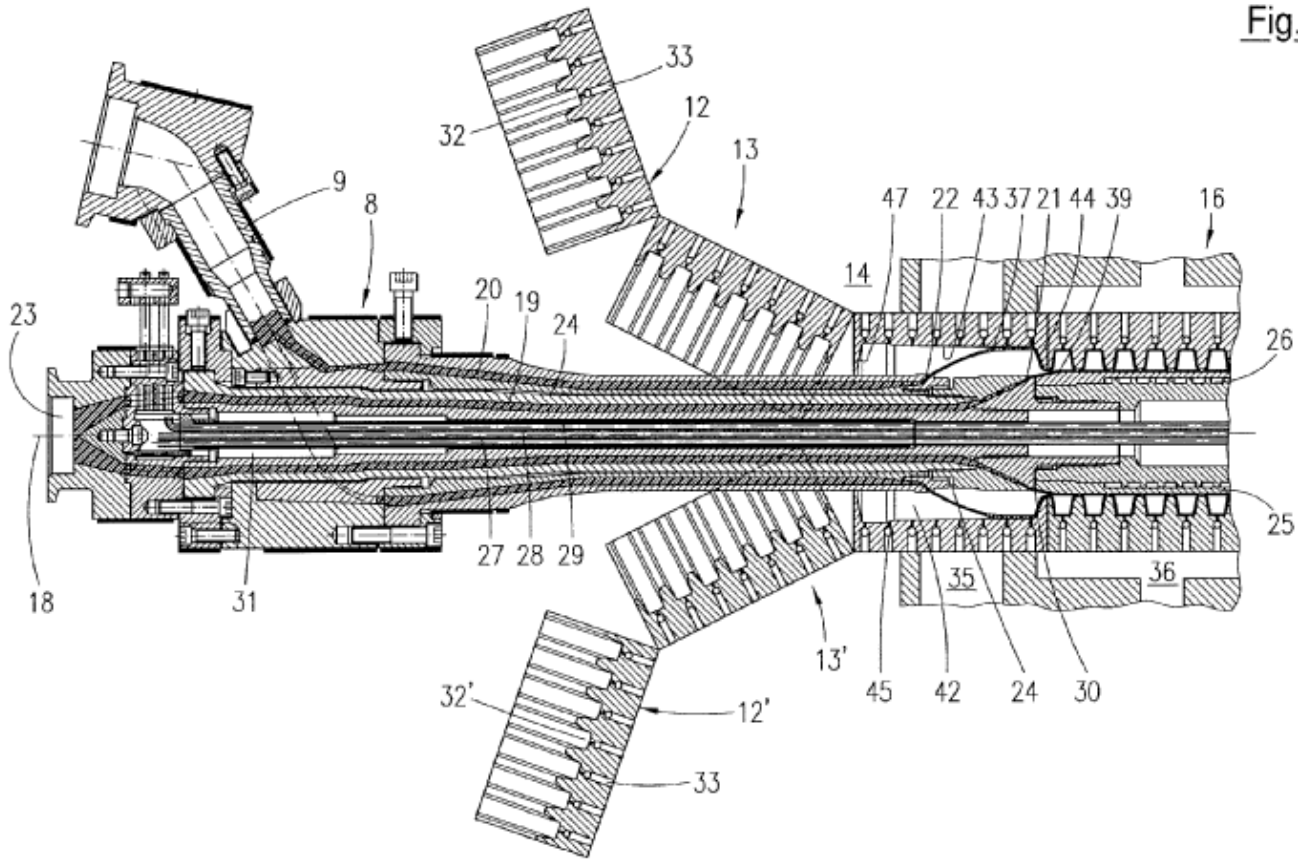


Fig.1

Fig.



B29C 49/0027

Definition statement

This place covers:

Using an auxiliary device, e.g. conveyor, to change the moulds without pausing the moulding apparatus.

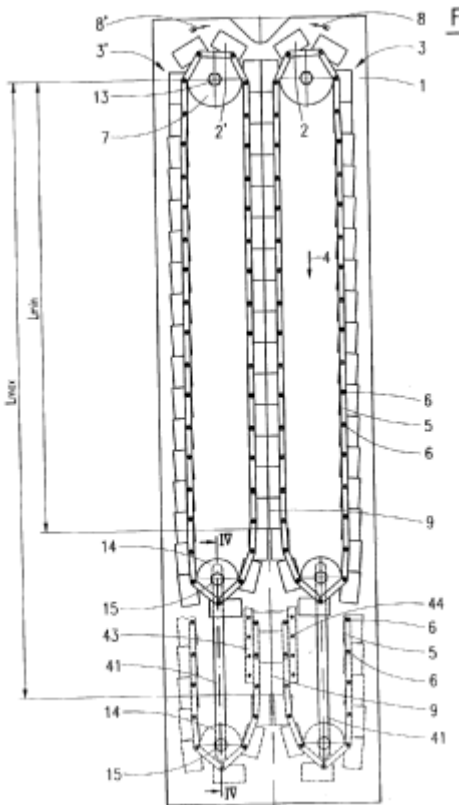
B29C 49/0028

Definition statement

This place covers:

Indefinite length moulding apparatus whose length can be varied according to desired process conditions or outcomes (e.g. cooling).

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/0029

Definition statement

This place covers:

Indefinite length moulding apparatus which uses varying/controlled pressure in the moulding process.

B29C49/003

Definition statement

This place covers:

Indefinite length moulding apparatus which involves various temperature conditioning techniques (e.g. interior cooling air). Examples include cooling of fused layers and details of the internal cooling plug.

B29C49/006

Definition statement

This place covers:

A combination of different apparatus to form a single blow-moulding plant. More than just extrusion or injection moulding combined with blow-moulding, could also be more than one blow-mould or other moulding apparatus.

B29C 49/0062

Definition statement

This place covers:

A plant wherein the plurality of stations are parallel to one another.

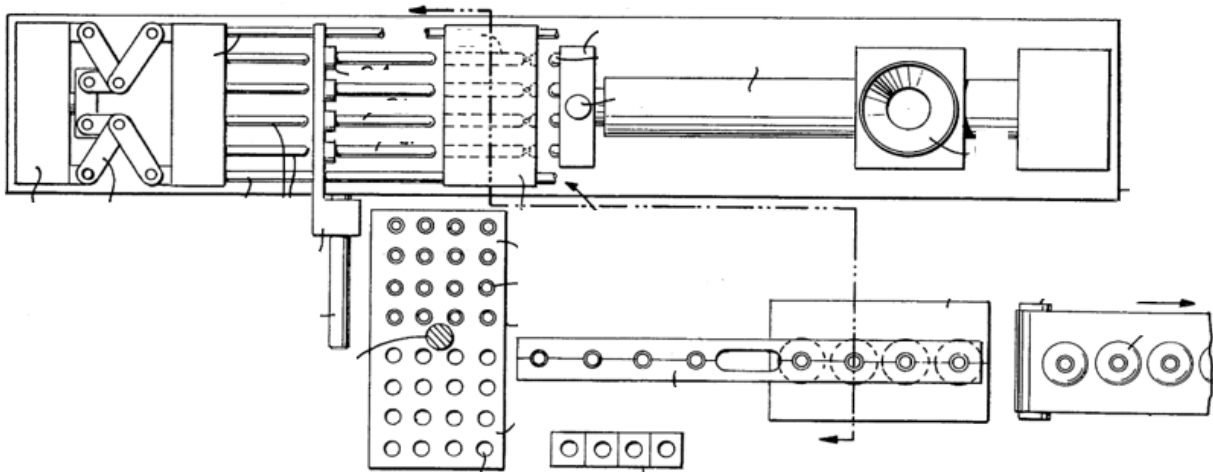
B29C 49/0064

Definition statement

This place covers:

Blow-moulding plants that have preform manufacturing segments and blow-moulding segments which are not equal in number.

In the example below the injection mould has 32 cavities and the blow-mould has 4 cavities.



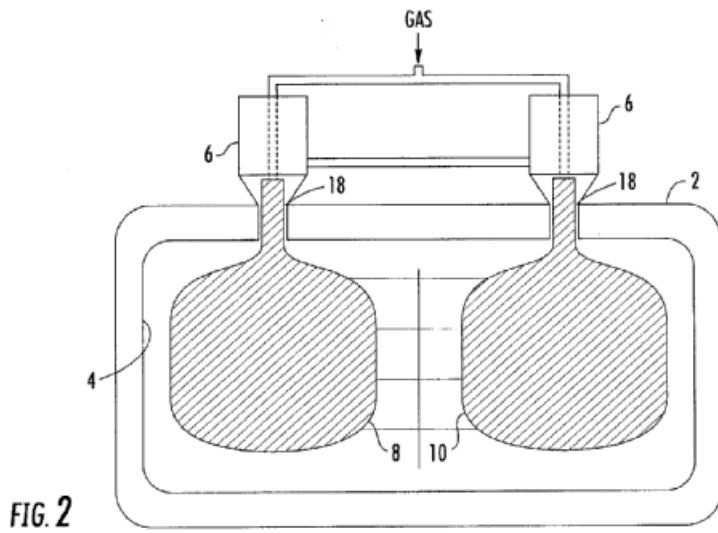
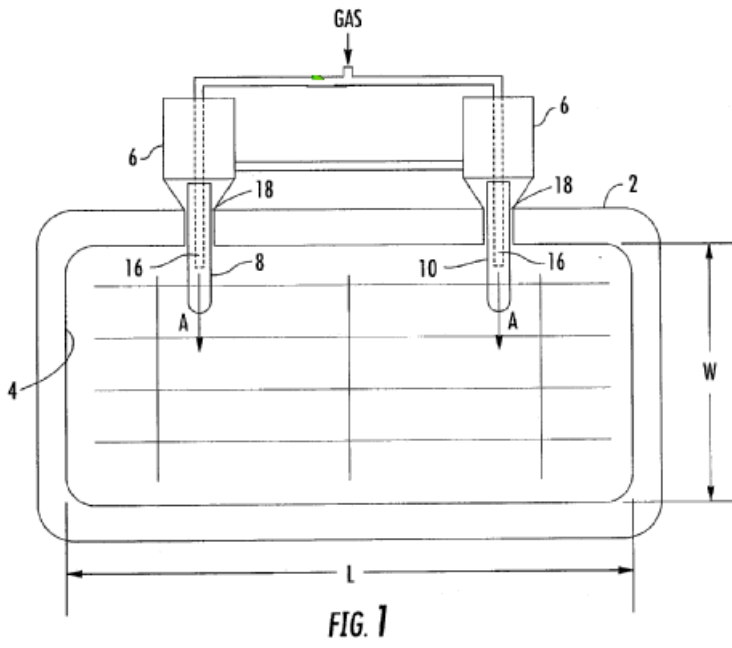
B29C 49/0208

Definition statement

This place covers:

Manufacturing process which includes both preform manufacture and blow-moulding of the preform, especially including manufacturing more than one distinct preforms and joining them together during blow-moulding.

Illustrative example of subject matter classified in this group:



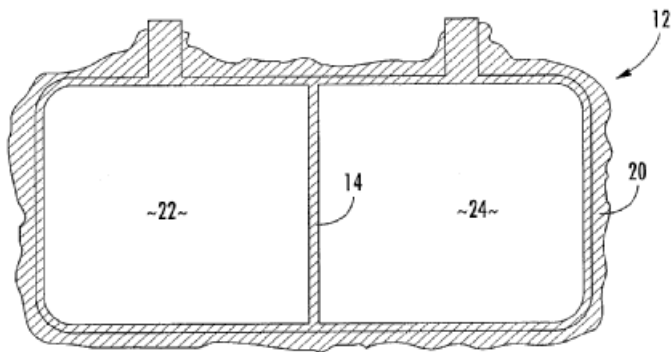
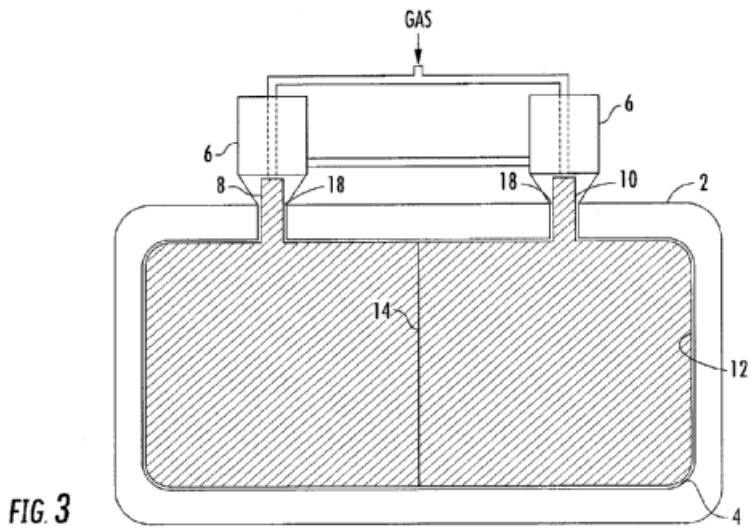
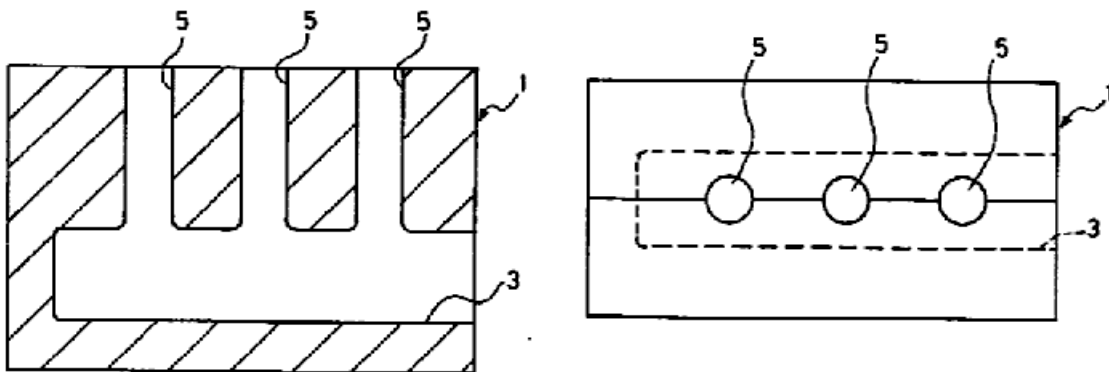
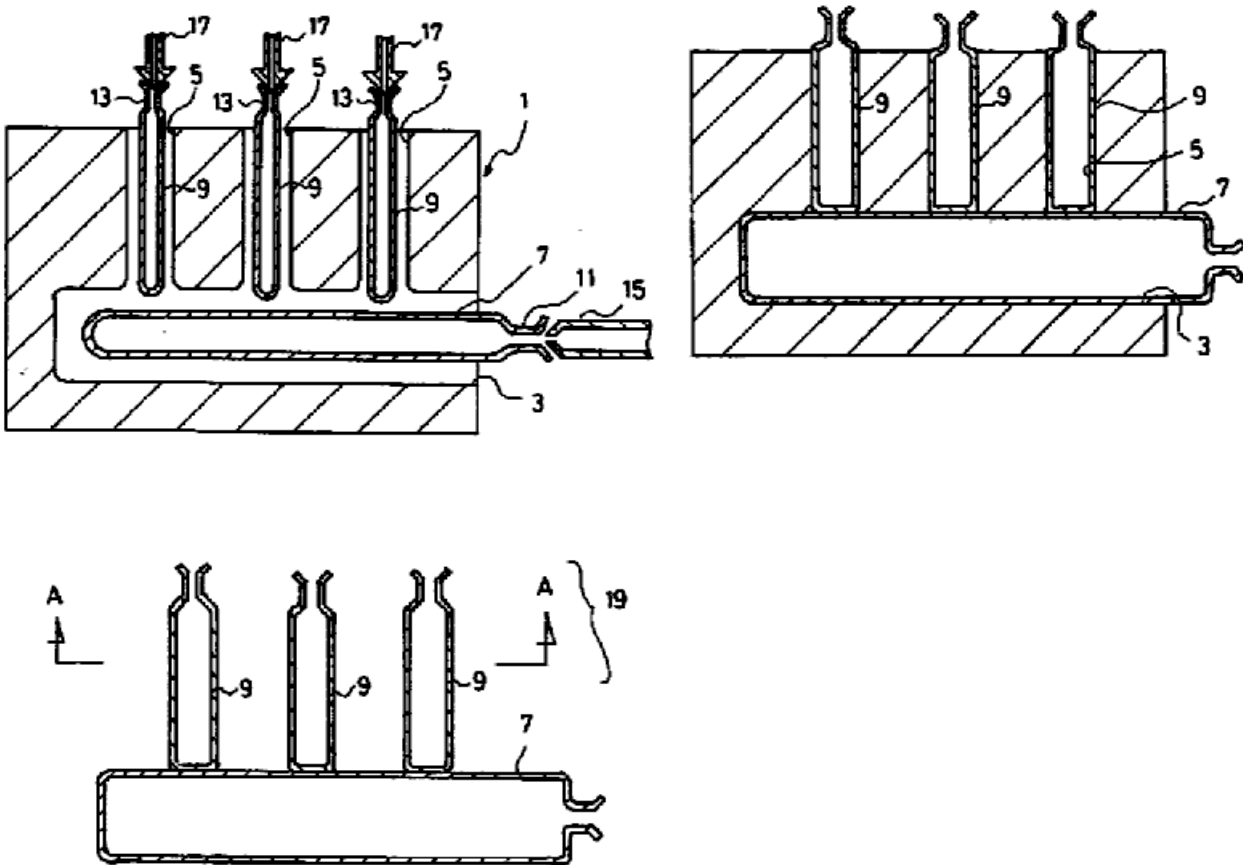


FIG. 4





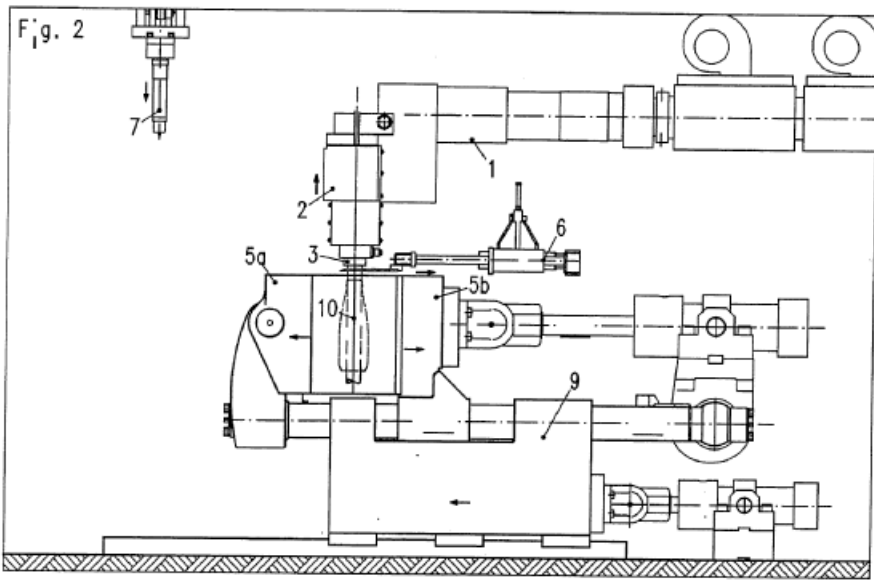
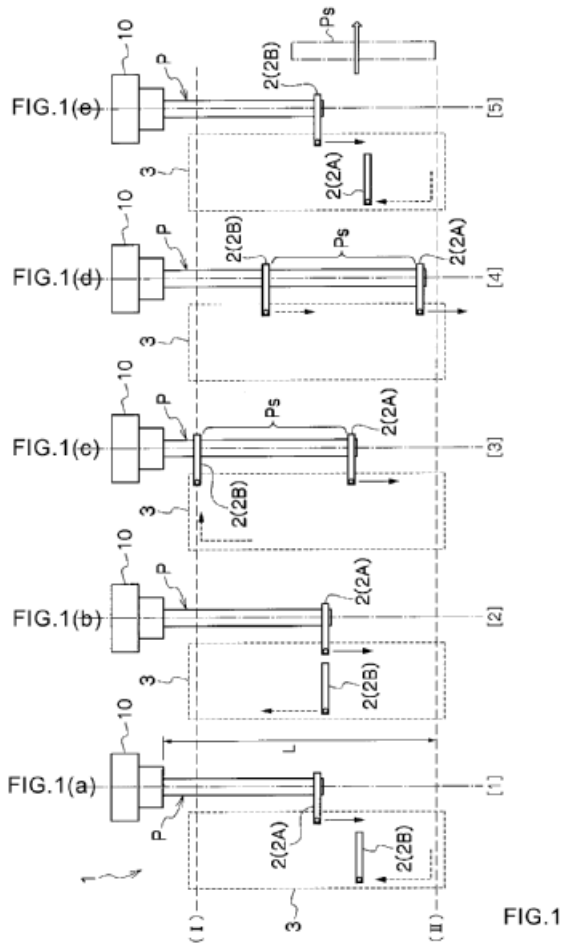
B29C 49/04102

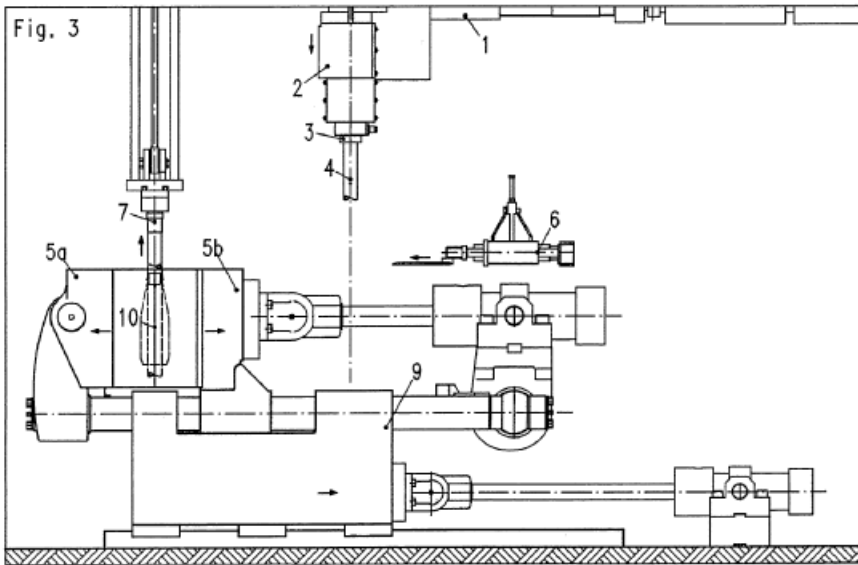
Definition statement

This place covers:

Manufacturing preforms via continuous extrusion prior to blow-moulding the preforms.

Illustrative example of subject matter classified in this group:





B29C 49/04104

Definition statement

This place covers:

Manufacturing preforms via extrusion which is not continuous, prior to blow-moulding the preforms.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424

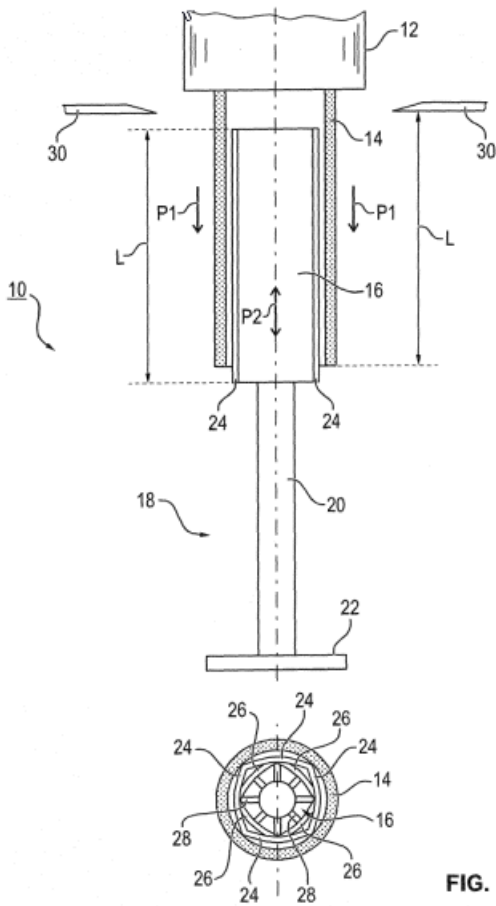


FIG. 1

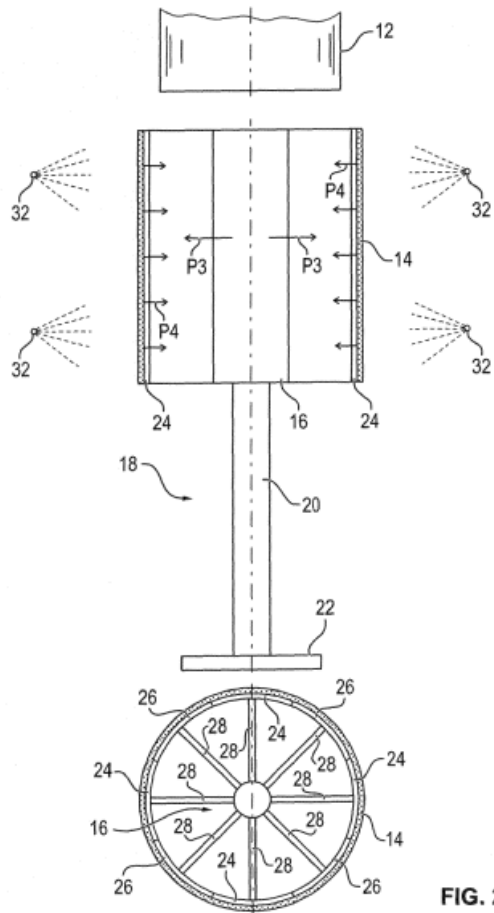


FIG. 2

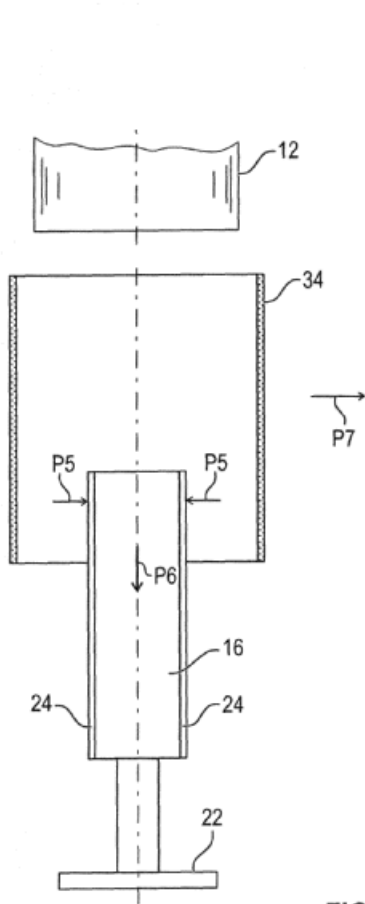


FIG. 3

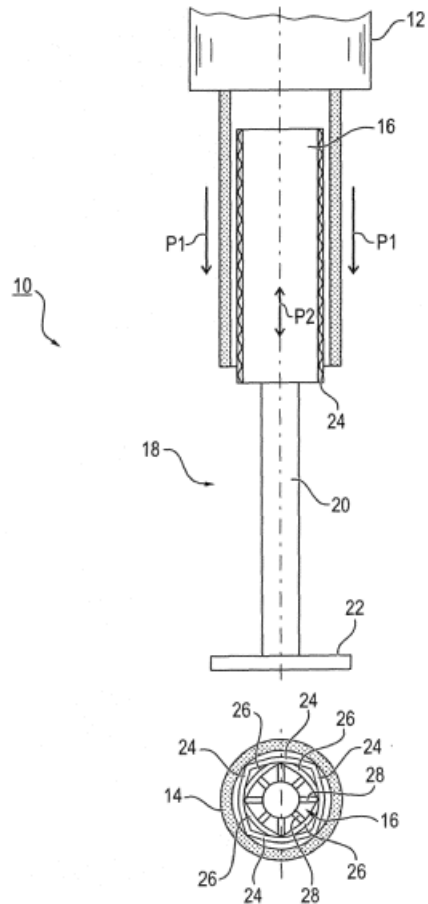


FIG. 4

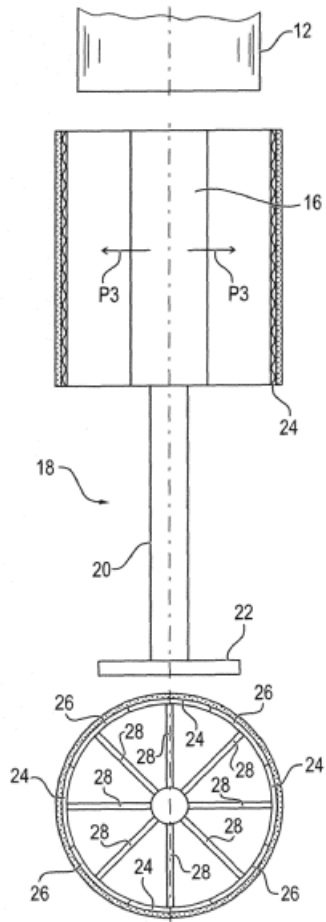


FIG. 5

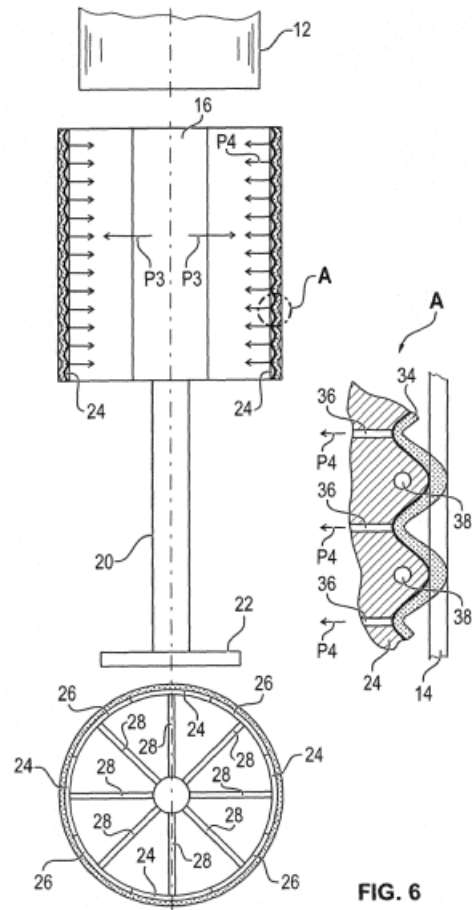
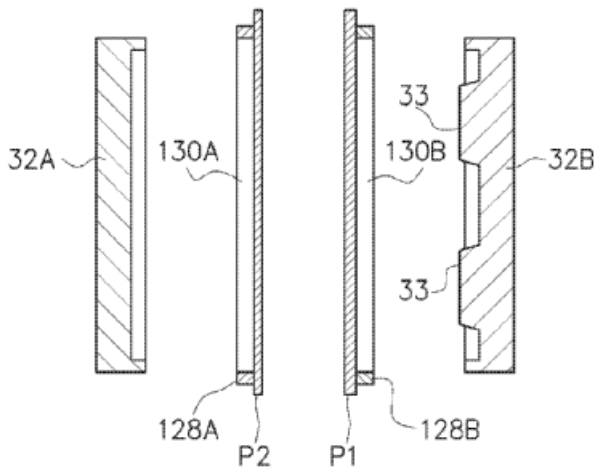


FIG. 6

FIG. 4



B29C 49/04106

Definition statement

This place covers:

Manufacturing method which includes preform manufacture followed by blow-moulding and also including a vertically movable extruder. This allows the extruder to be repositioned during the process to accommodate subsequent moulding operations concurrently with extrusion.

Illustrative example of subject matter classified in this group:

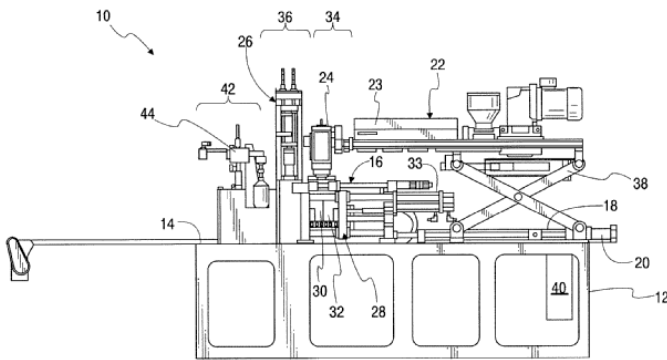
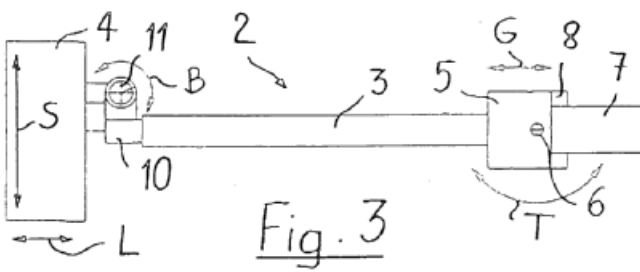
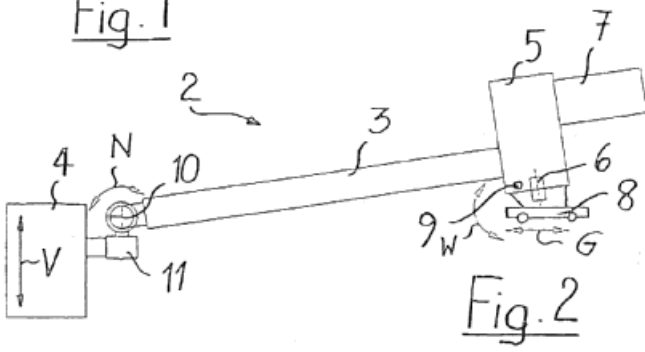
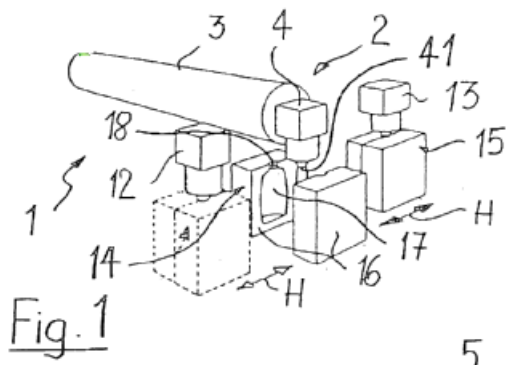


Fig. 1



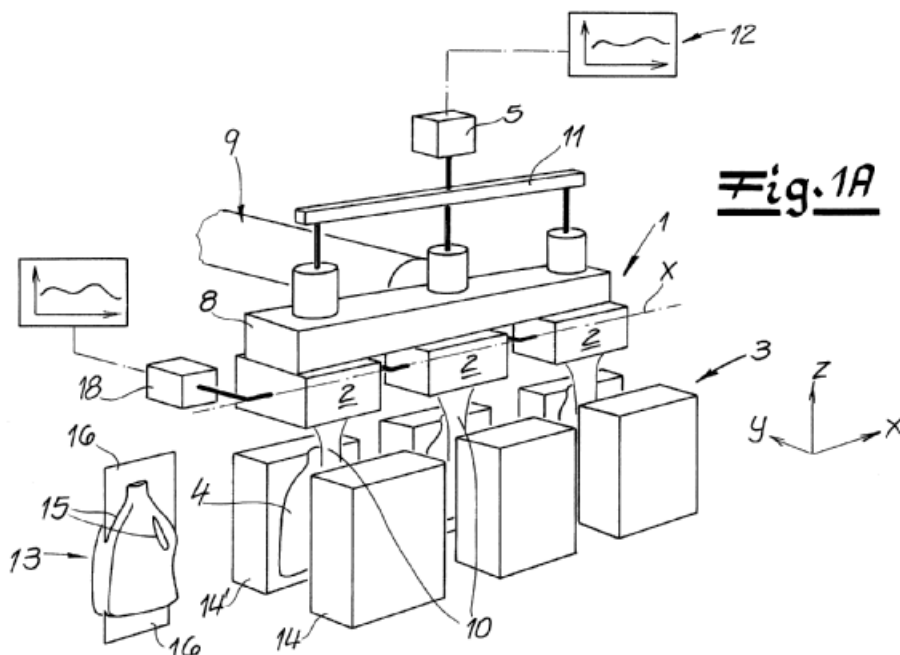
B29C 49/04108

Definition statement

This place covers:

Preform extrusion including several preforms (i.e. parisons) being extruded simultaneously and parallel to each other.

Illustrative example of subject matter classified in this group:



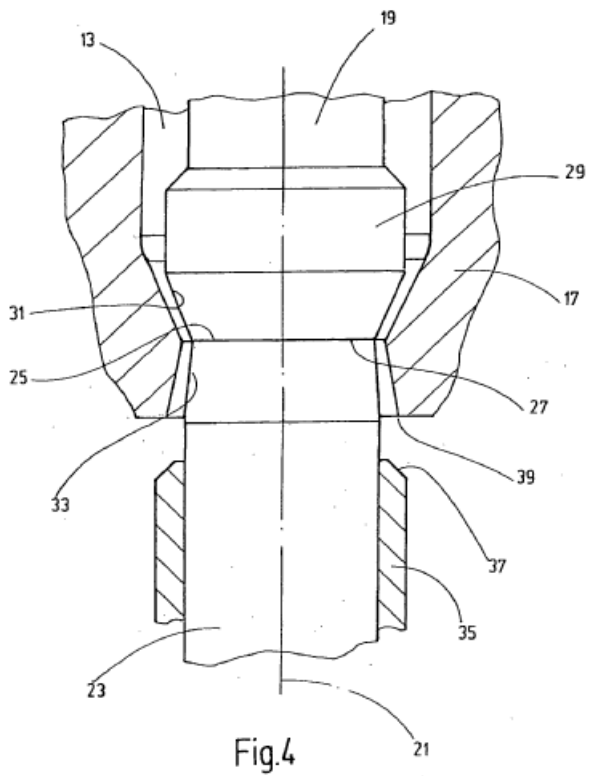
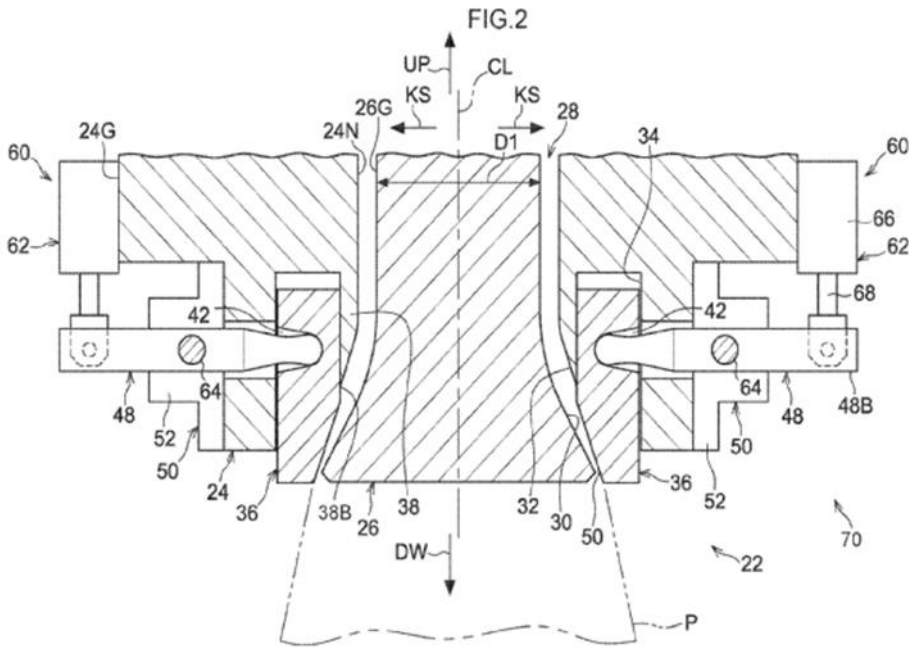
B29C 49/0411

Definition statement

This place covers:

Preform extrusion in which the wall/layer thickness is particularly controlled by an apparatus feature.

Illustrative example of subject matter classified in this group:



B29C 49/04114

Definition statement

This place covers:

Preform extrusion wherein it is ensured that the preform wall/layer thickness is constant.

Illustrative example of subject matter classified in this group:

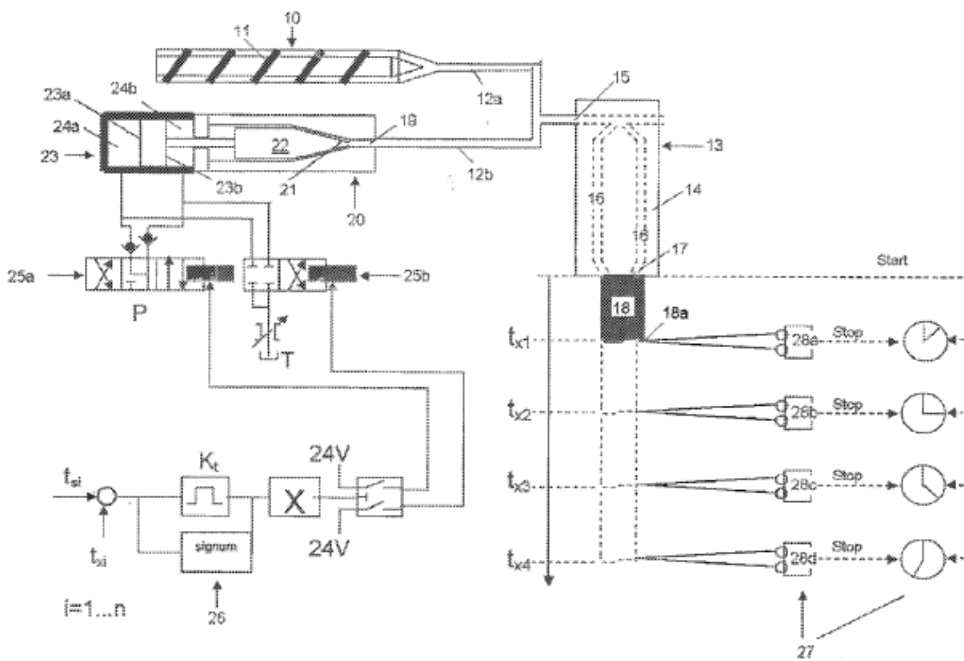


FIG. 1

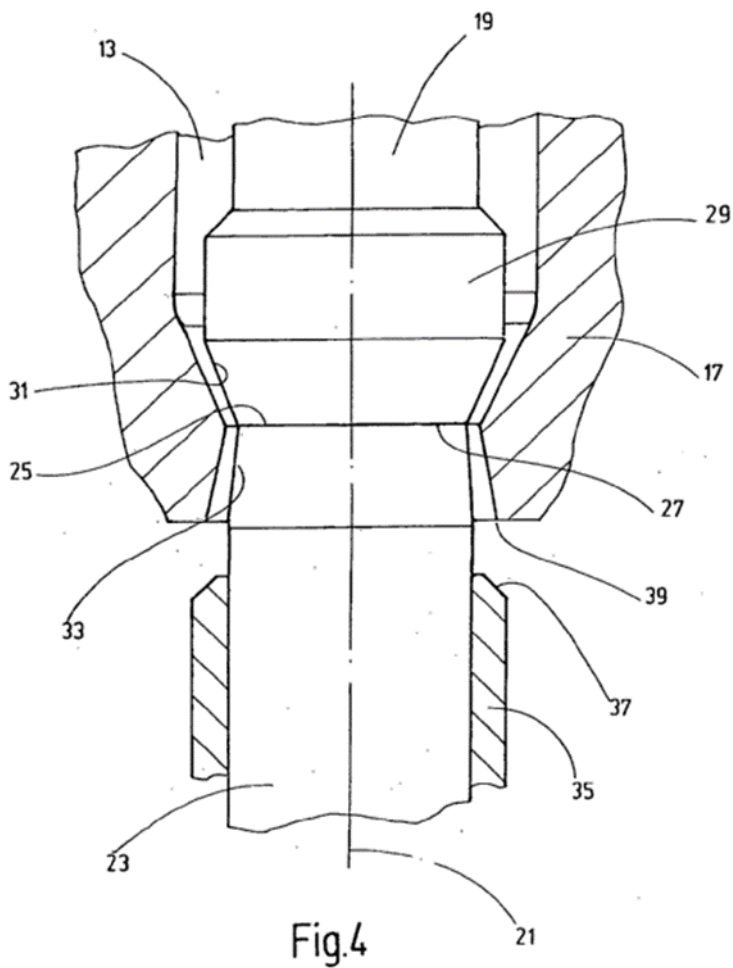
B29C 49/04116

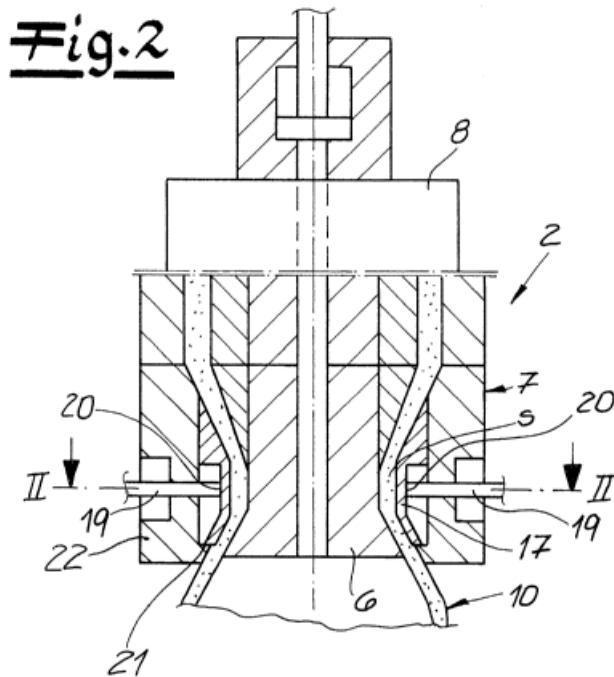
Definition statement

This place covers:

Preform extrusion wherein the die configuration is of particular importance and effect.

Illustrative example of subject matter classified in this group:





B29C 49/04118

Definition statement

This place covers:

Preform extrusion method including elements which support or guide the preform after it is extruded.

Illustrative example of subject matter classified in this group:

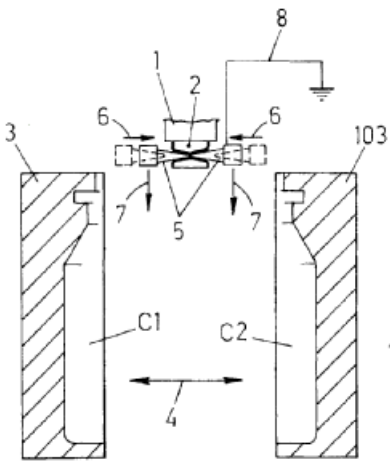


Fig.1

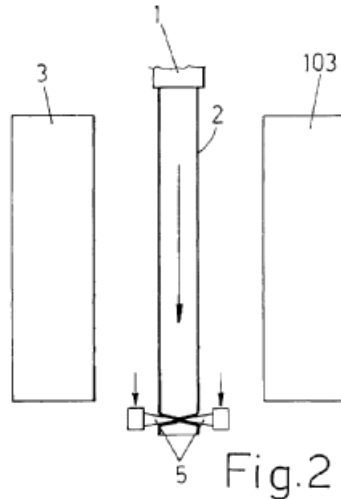


Fig.2

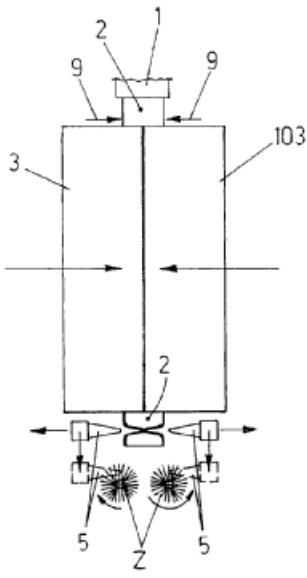


Fig.3

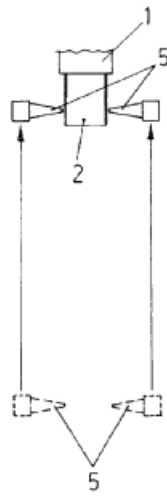
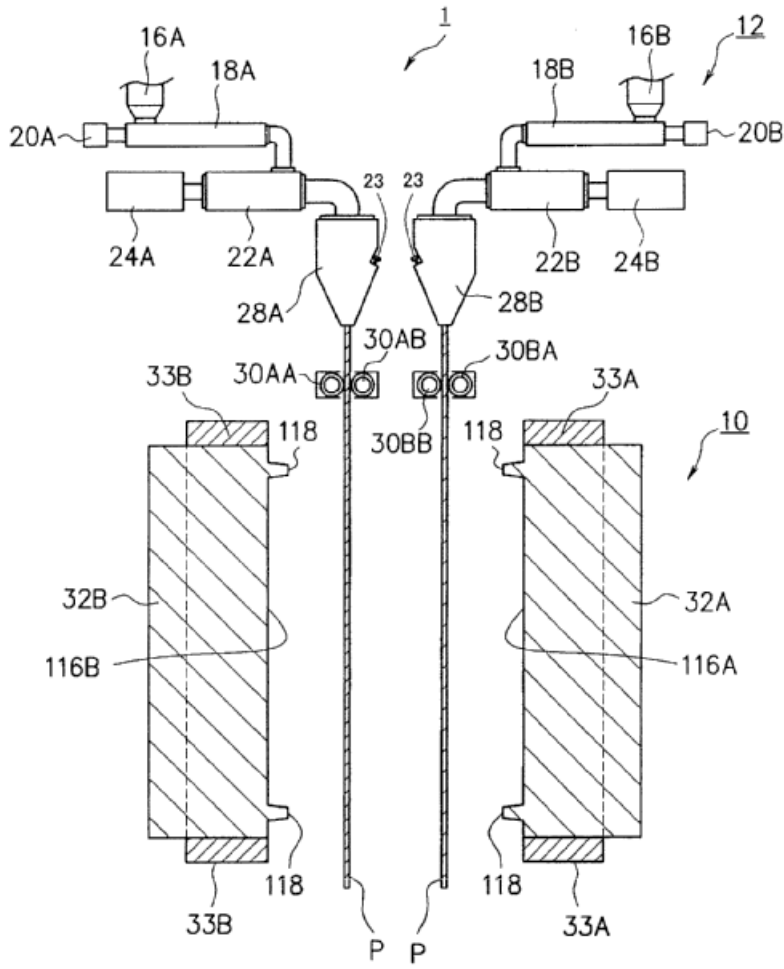


Fig.4

DATE: MAY 1, 2022

PROJECT RP10424



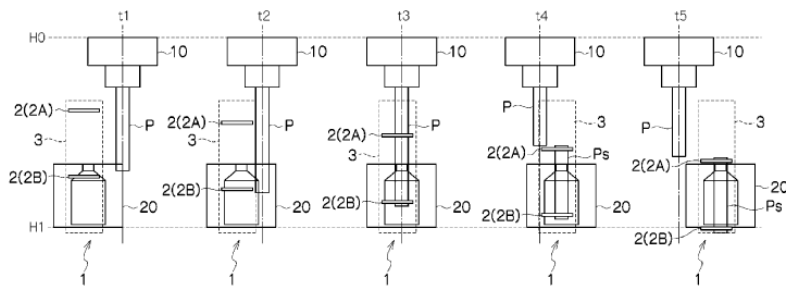
B29C 49/0412

Definition statement

This place covers:

Cutting to length of the parison or cutting the tubular parison to form sheets.

Illustrative example of subject matter classified in this group:



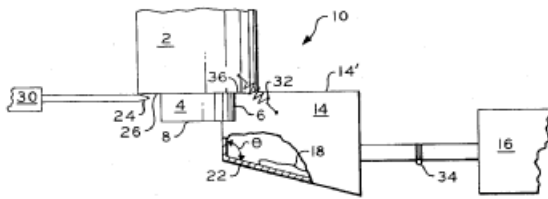


FIG. 1

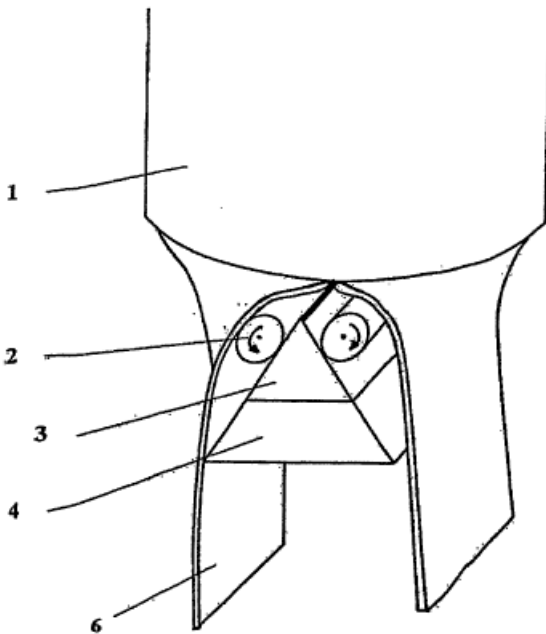


FIGURE 1

B29C 49/0665

Definition statement

This place covers:

An injection moulding apparatus of creating a preform and a blow-moulding apparatus for blowing of the preform, which includes a stationary core that is common between the injection mould and the blow-mould.

Illustrative example of subject matter classified in this group:

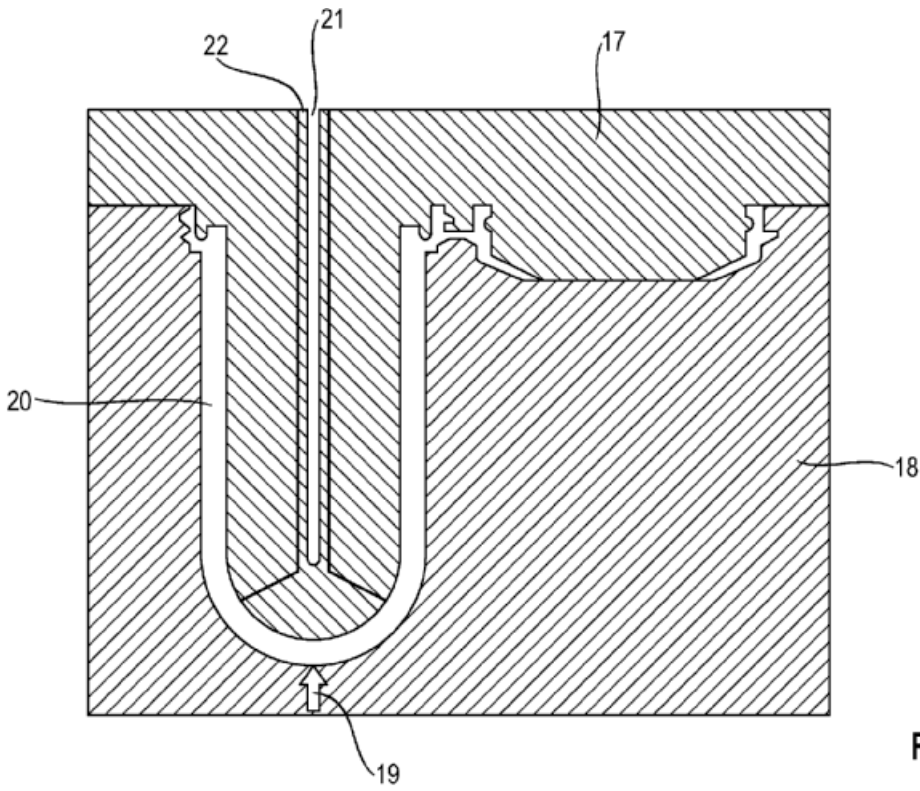


Fig. 9

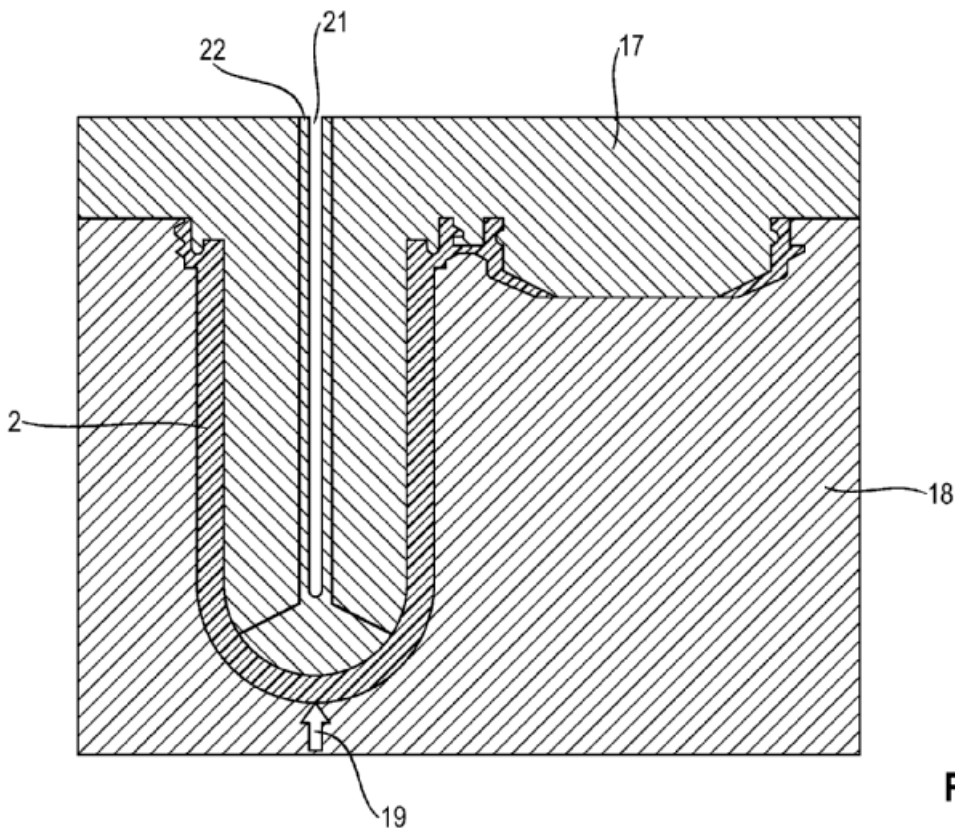


Fig. 10

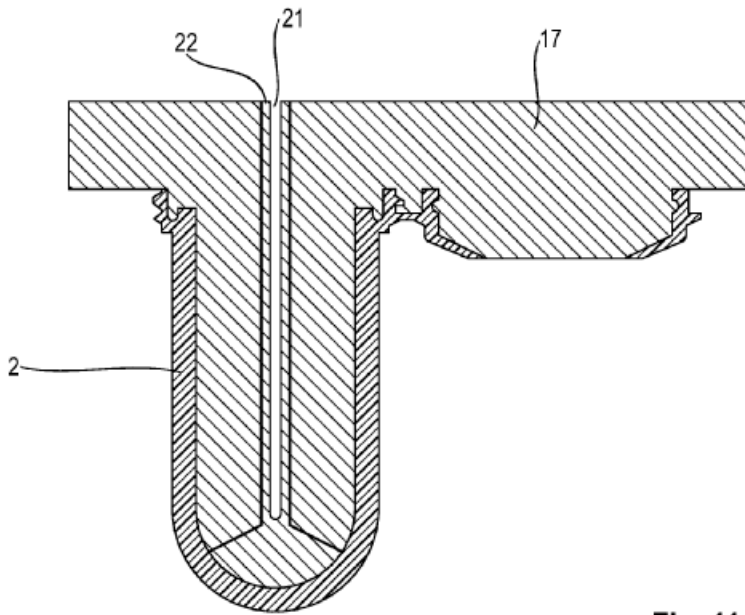


Fig. 11

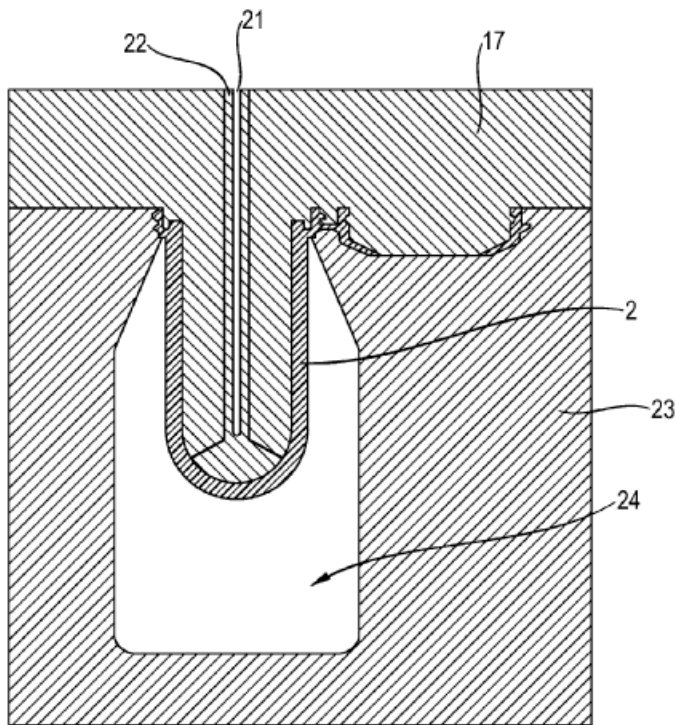


Fig. 12

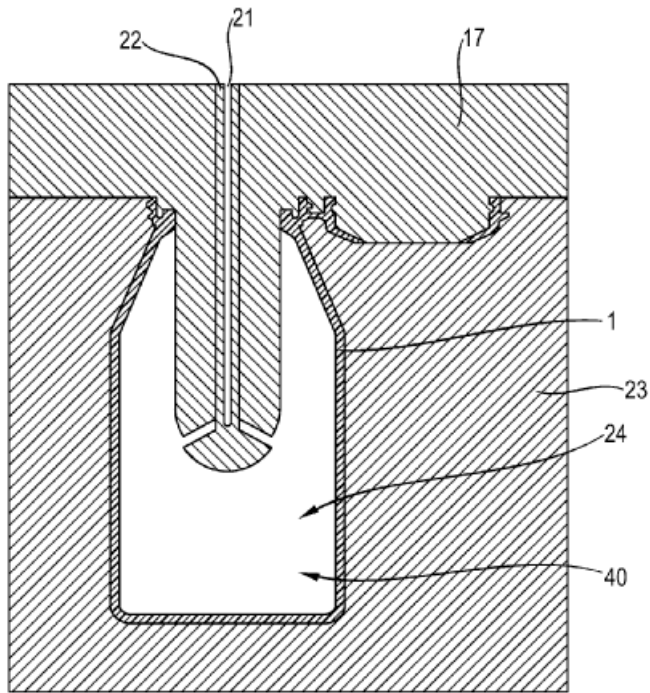


Fig. 13

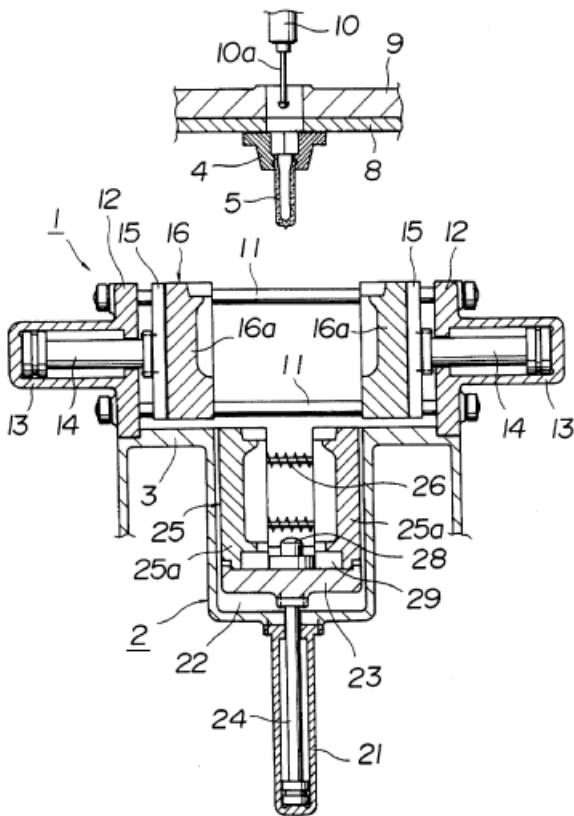


FIG. 2

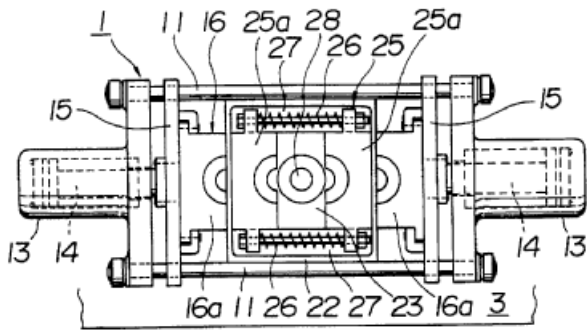


FIG. 3

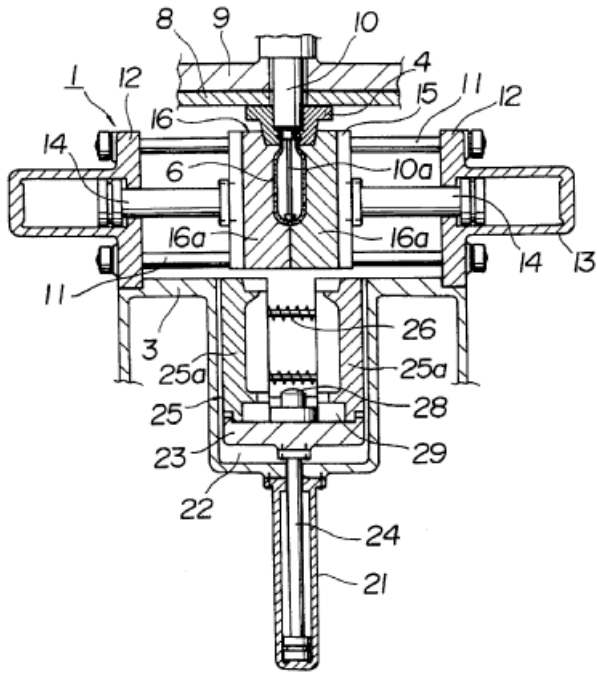


FIG. 4

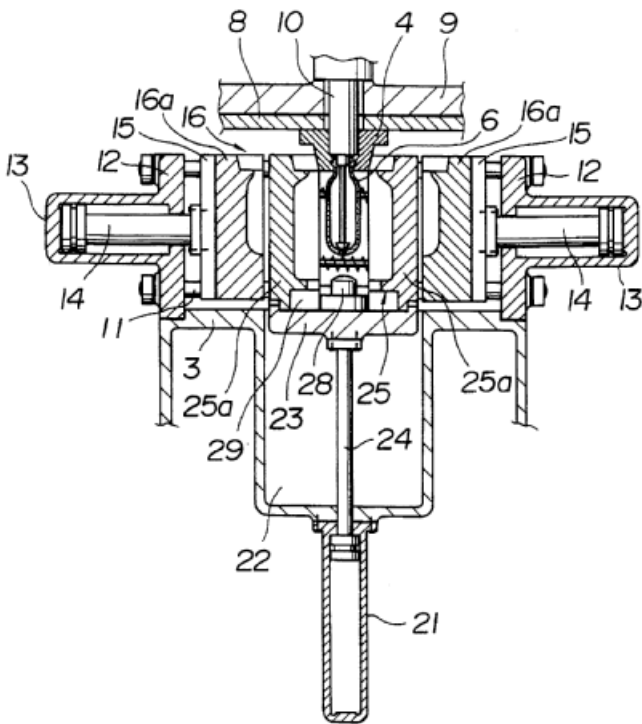


FIG. 5

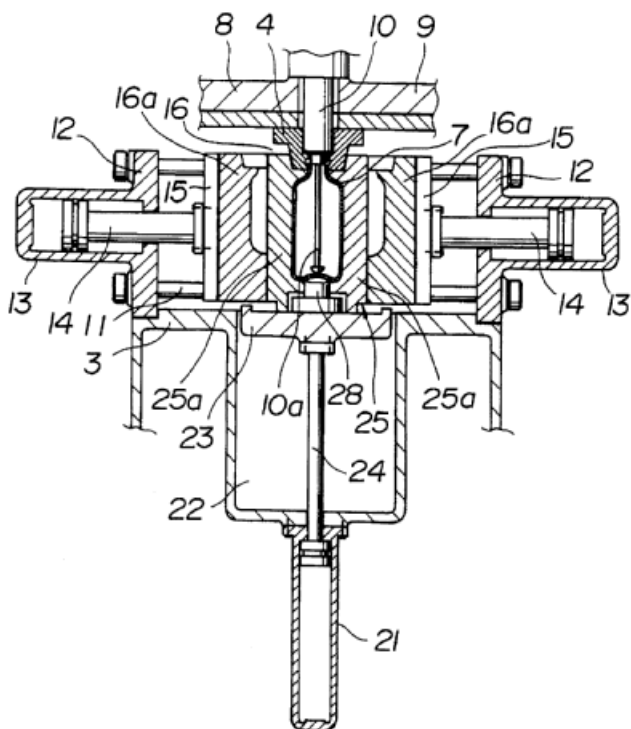
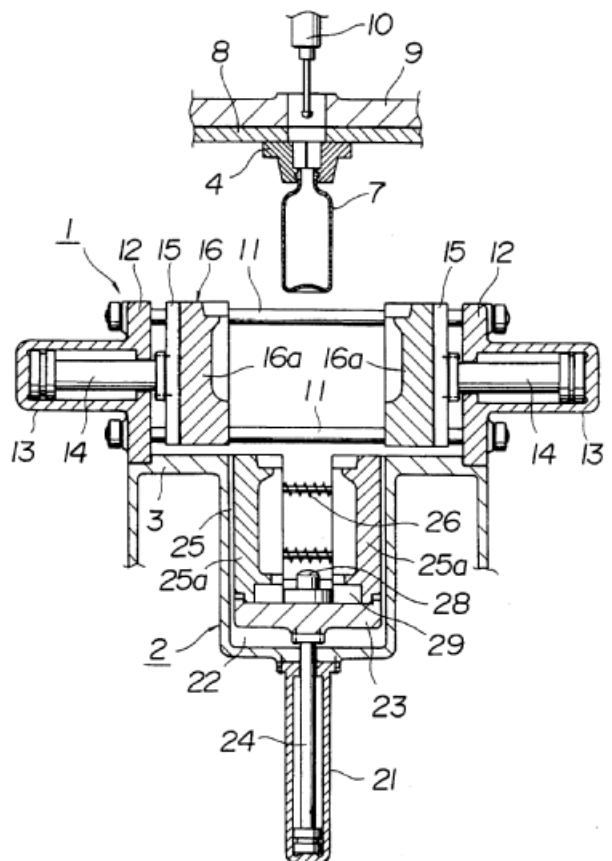


FIG. 6



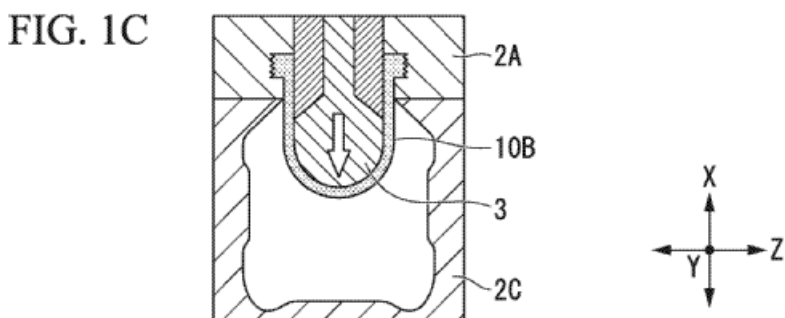
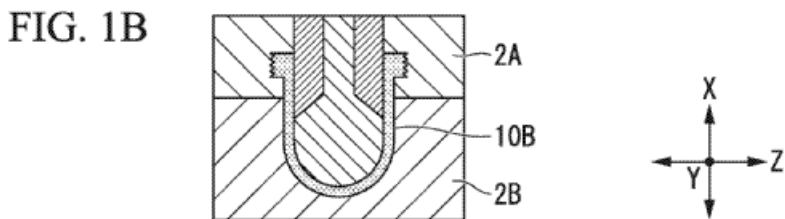
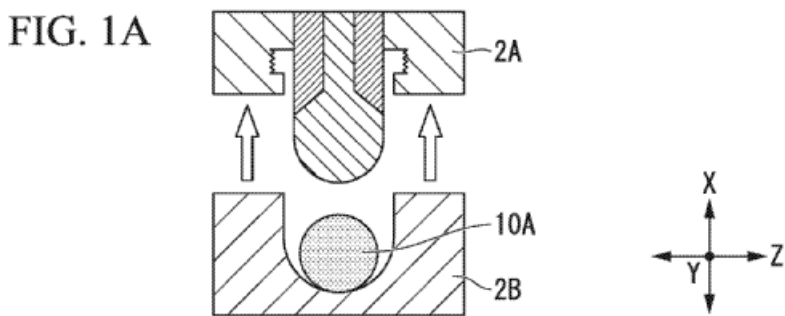
B29C 49/0685

Definition statement

This place covers:

Blow-moulding where the preform is made by compression moulding and then blow-moulded into a final article.

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

FIG. 1D

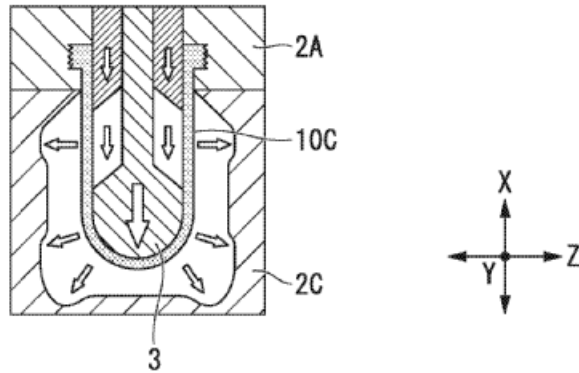
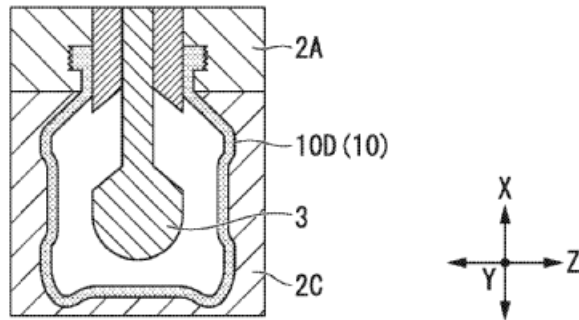


FIG. 1E

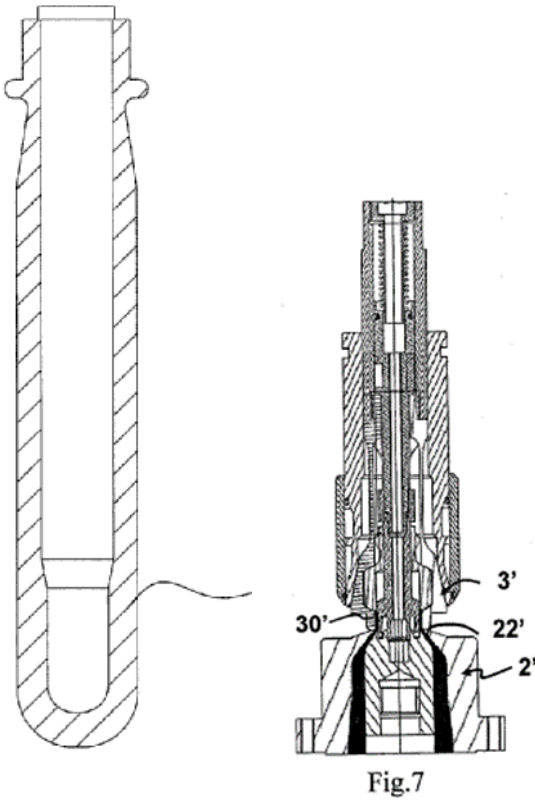
**B29C 49/06905****Definition statement**

This place covers:

Preform manufacturing which includes a variety of moulding processes, e.g. compression, injection, extrusion, or casting.

Illustrative example of subject matter classified in this group:

The figure shows a combination of injection moulding followed by extrusion as the die moves away from the neck mould.



B29C 49/06912

Definition statement

This place covers:

Preform manufacturing which includes making sheets followed by a folding process to create the preform.

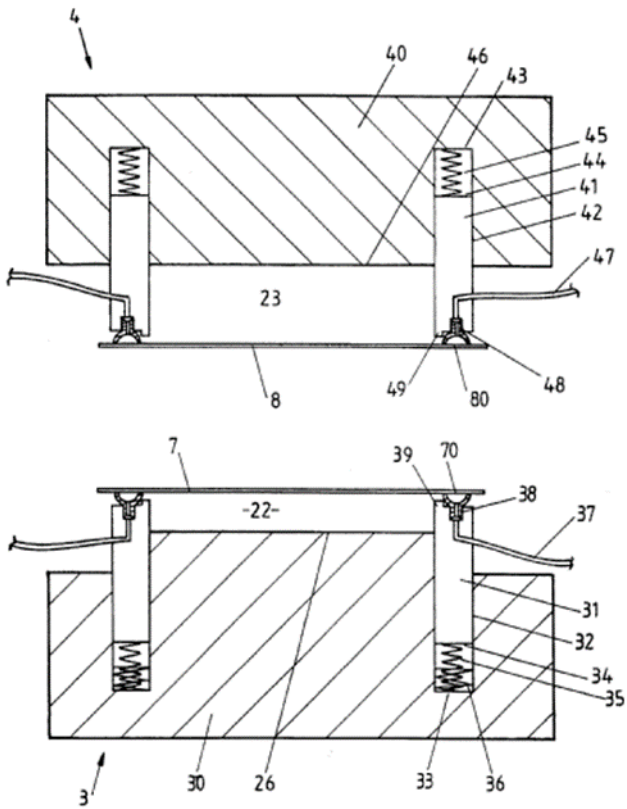
B29C 49/06914

Definition statement

This place covers:

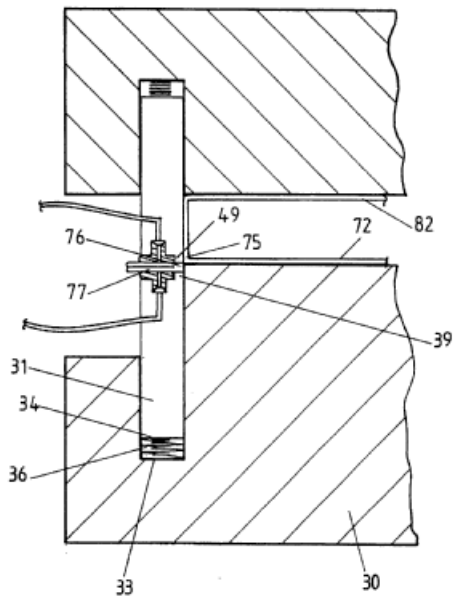
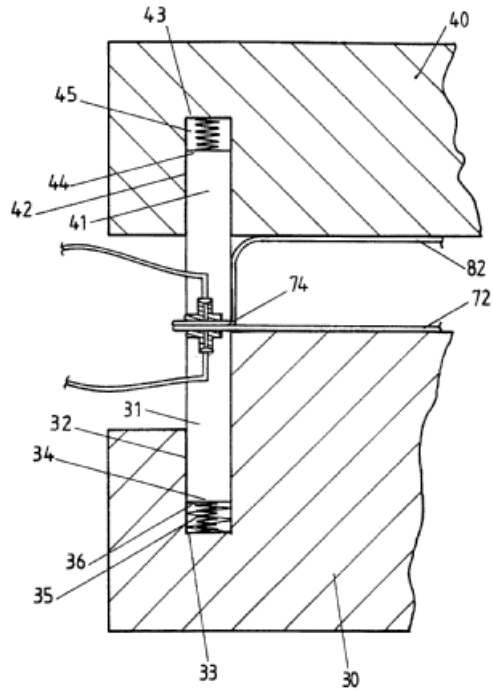
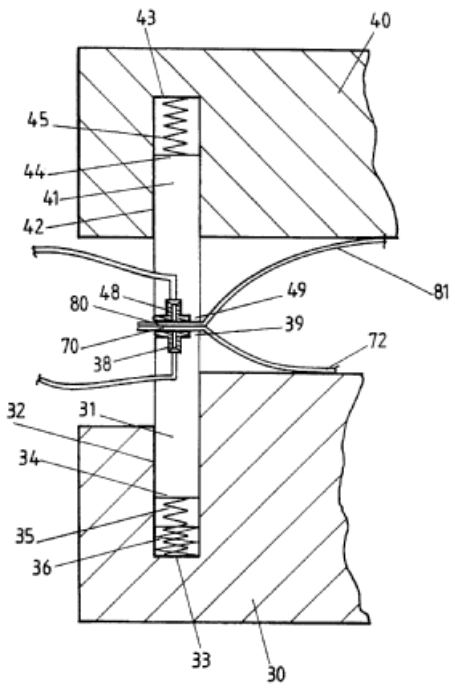
Manufacturing process which identifies the preform as two parallel sheets.

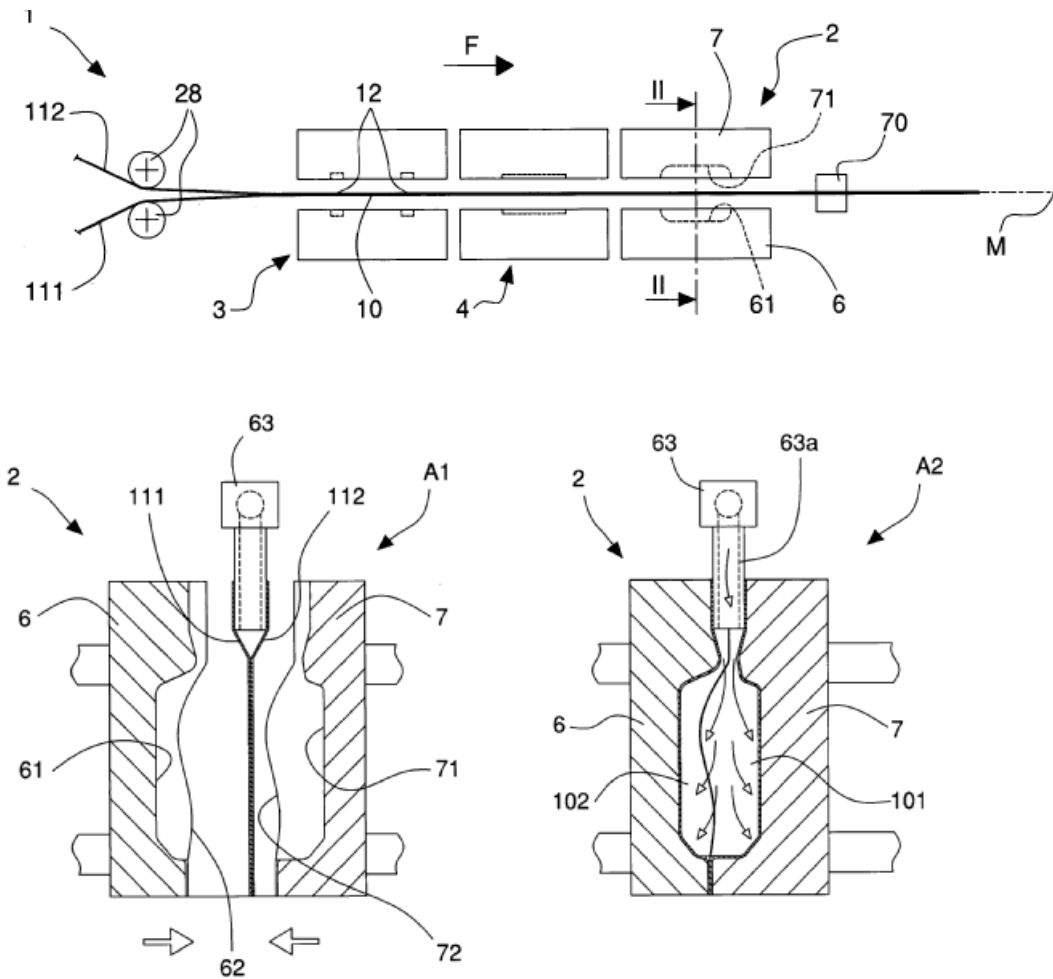
Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424





B29C 49/06916

Definition statement

This place covers:

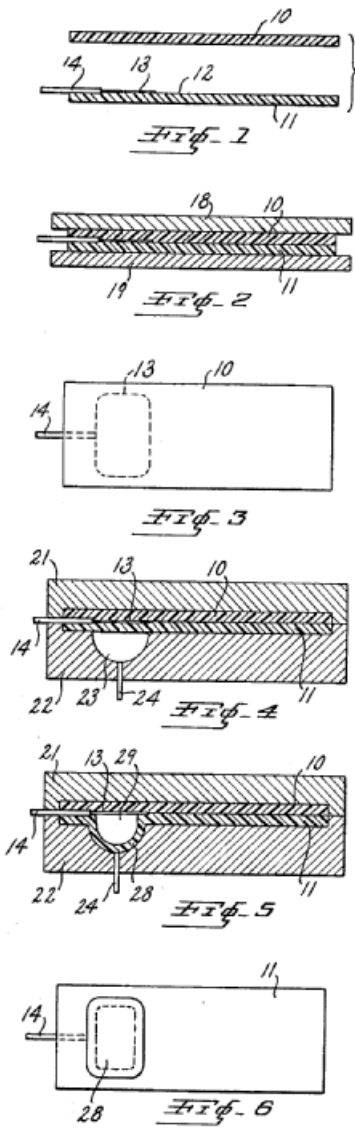
A process which uses two preformed sheets which are prevented from contacting each other in certain areas.

Illustrative example of subject matter classified in this group:

A hollow container producing device comprising a jetting unit that discharges a jet of gas toward each of the pair of parison sheets from an intermediate frame side of the parison sheet.

DATE: MAY 1, 2022

PROJECT RP10424

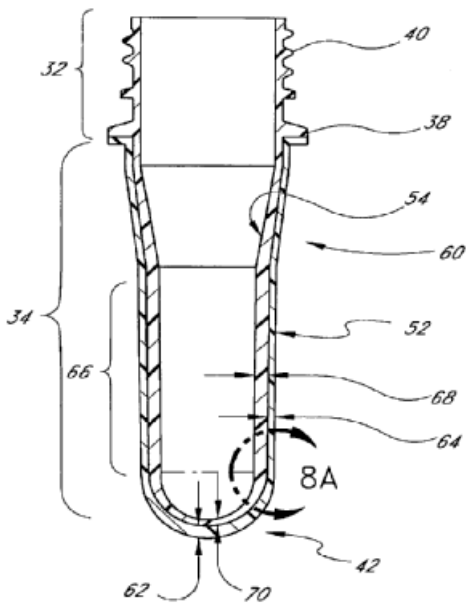
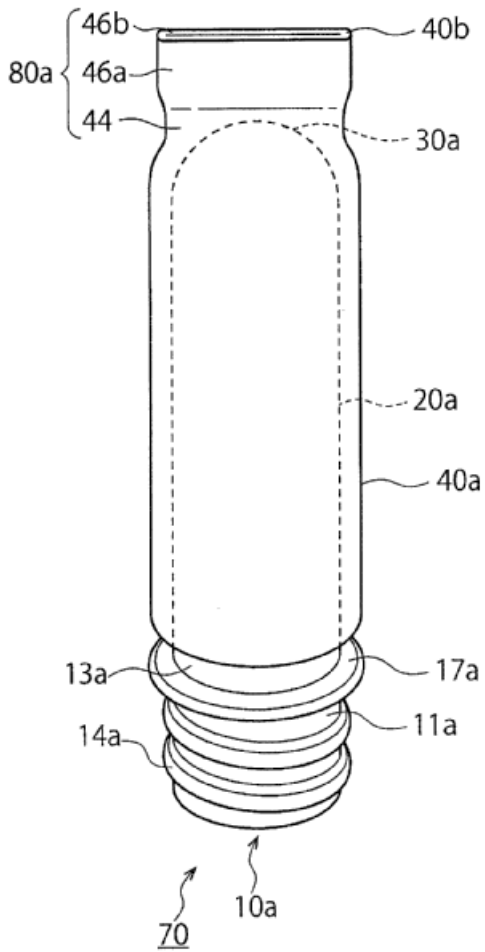


B29C 49/071

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

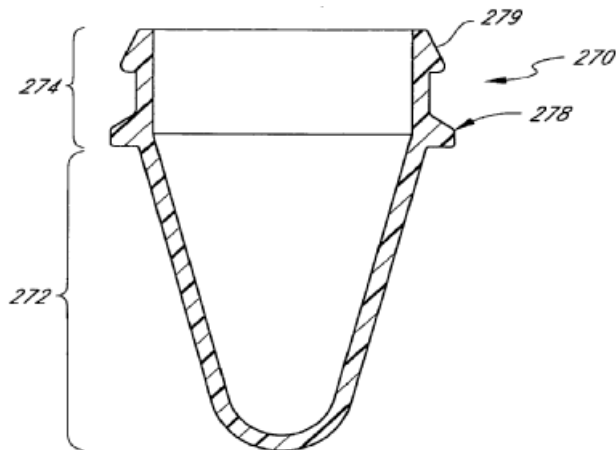
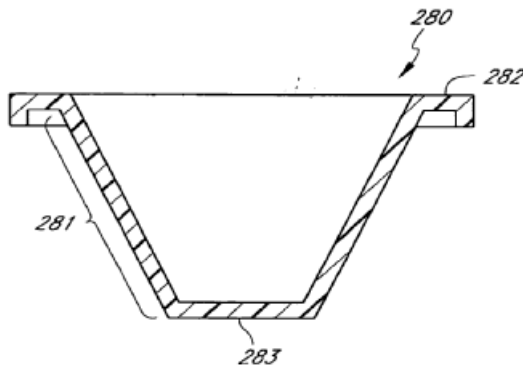


FIG. 16



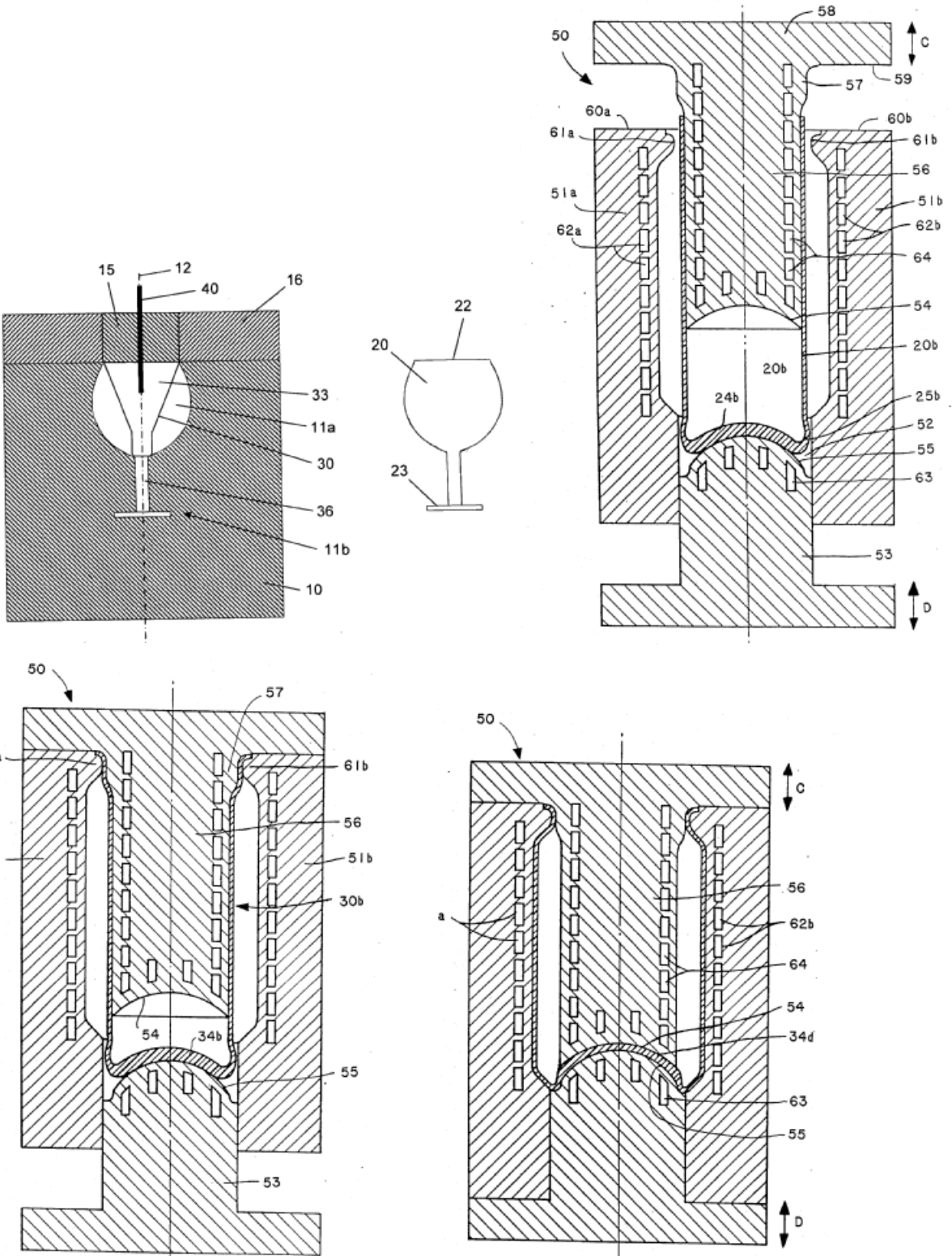
B29C 49/086

Definition statement

This place covers:

Blow-moulding process where a preform of a particular configuration is stretched only one direction.

Illustrative example of subject matter classified in this group:



B29C 49/1202

Definition statement

This place covers:

Stretching rods which are attached to their driving means by mechanical features.

Illustrative example of subject matter classified in this group:

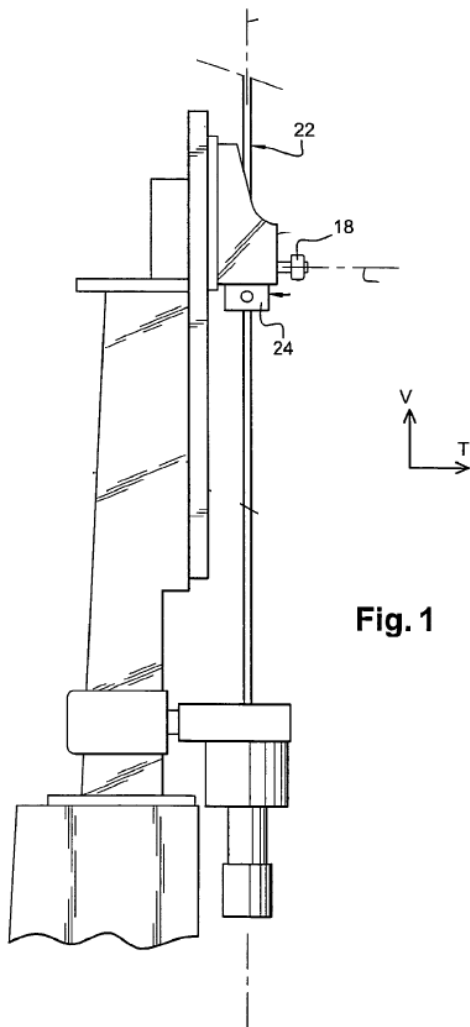


Fig. 1

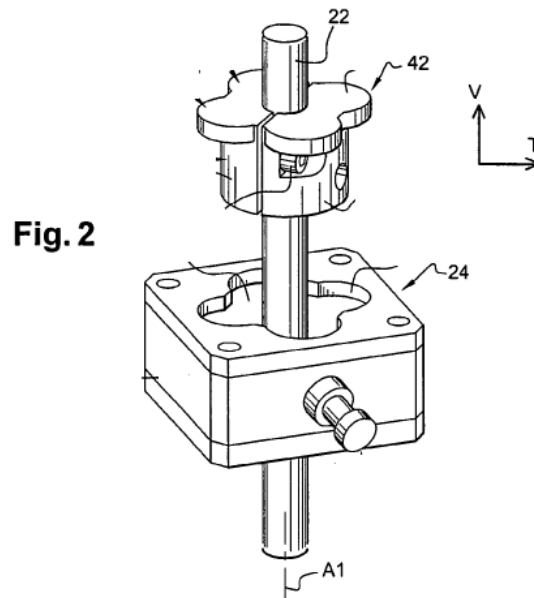


Fig. 2

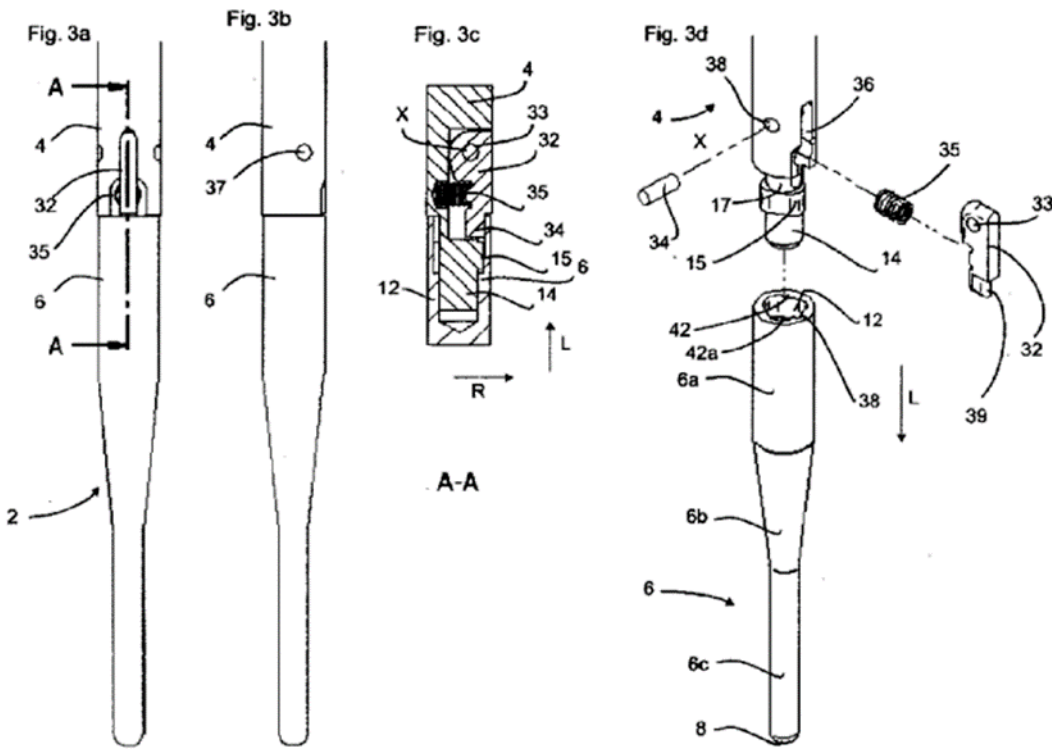
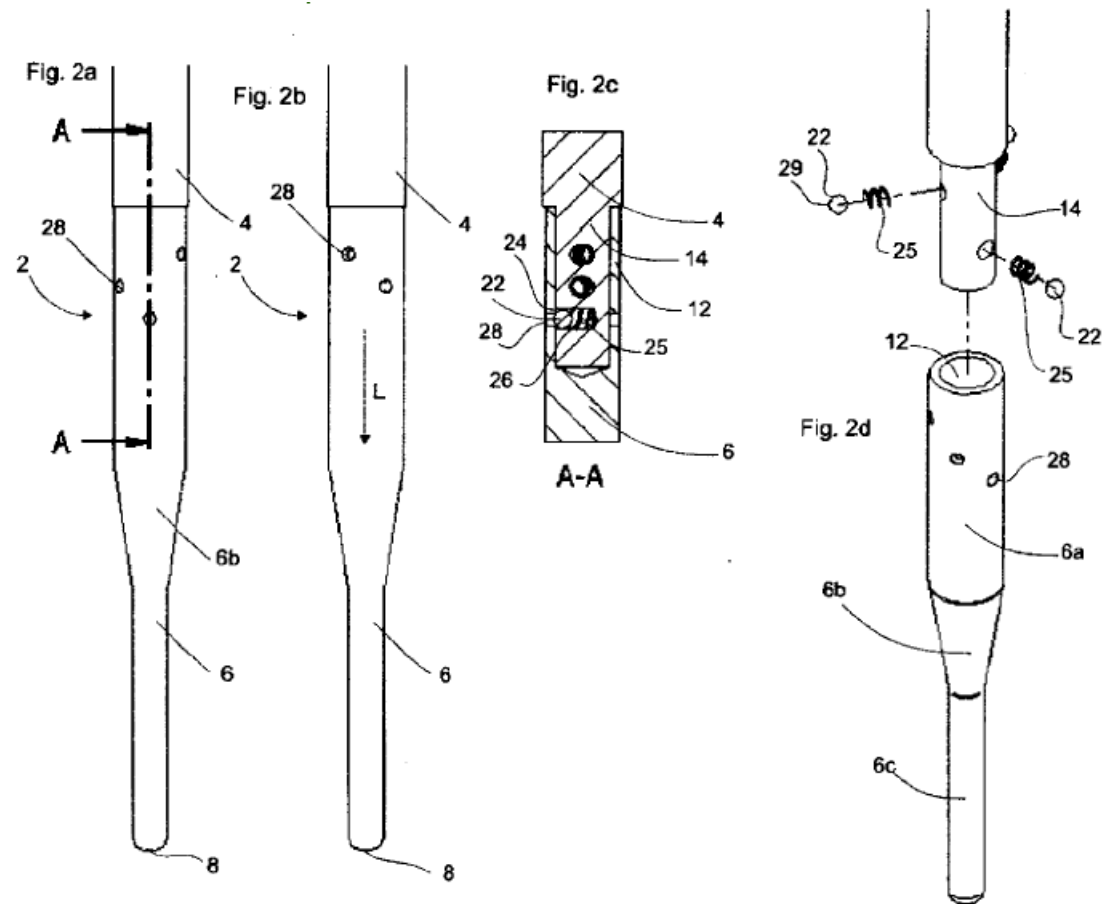


Fig. 4

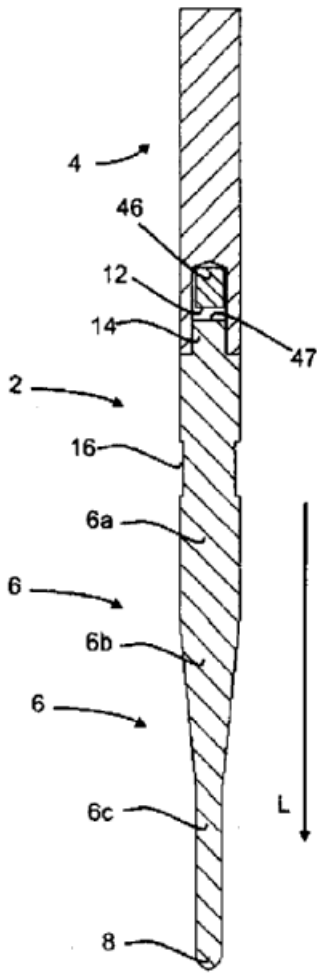
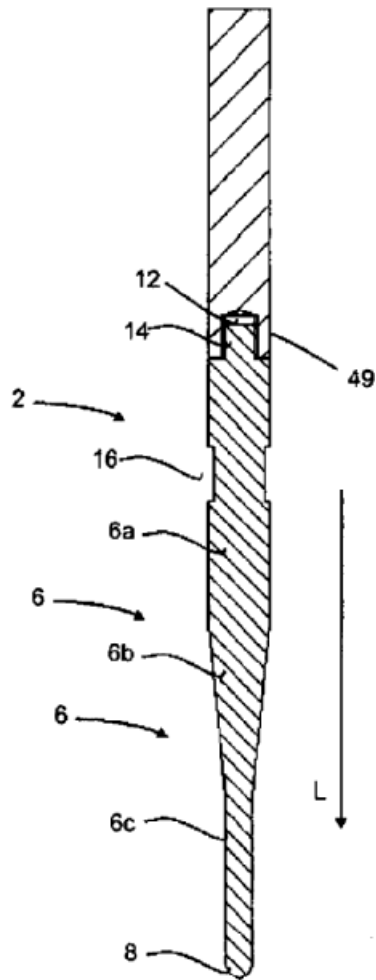


Fig. 5



B29C 49/1205

Definition statement

This place covers:

Stretch rod configuration which allows rotation between the stretch rod and the preform.

B29C 49/1206

Definition statement

This place covers:

Several biaxial stretching rods which are each positioned to act upon different areas of the preform.

Illustrative example of subject matter classified in this group:

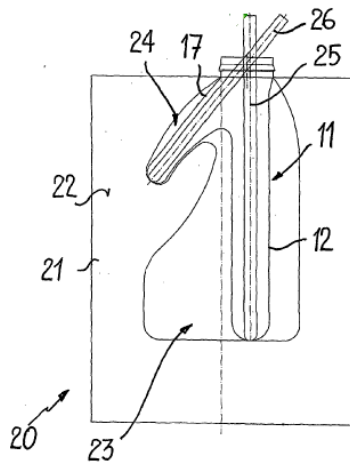
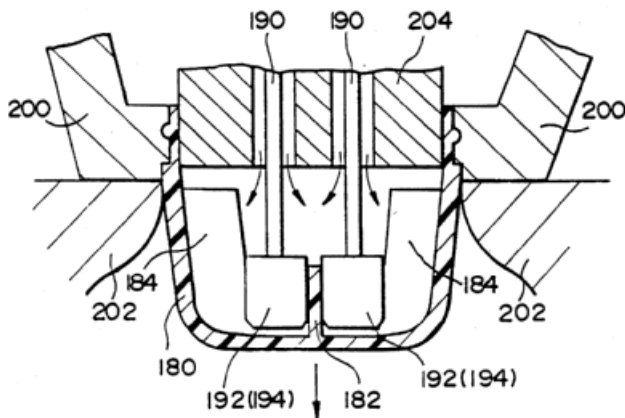


Fig. 3



B29C 49/1208

Definition statement

This place covers:

Stretching rods which include the ability to hold/clamp the preform bottom while stretching occurs.

Illustrative example of subject matter classified in this group:

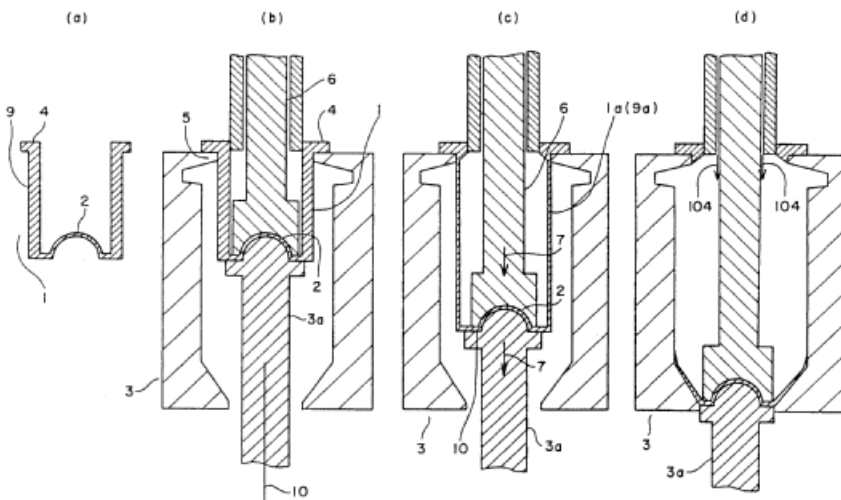
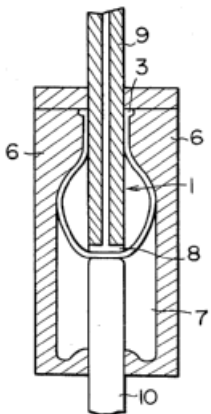


Fig. 3



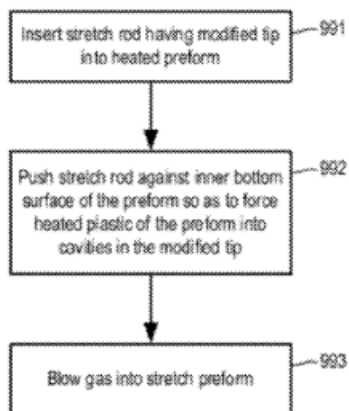
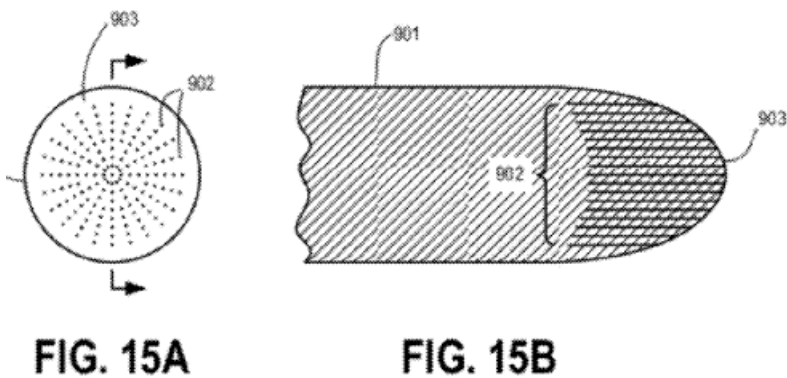
B29C 49/1212

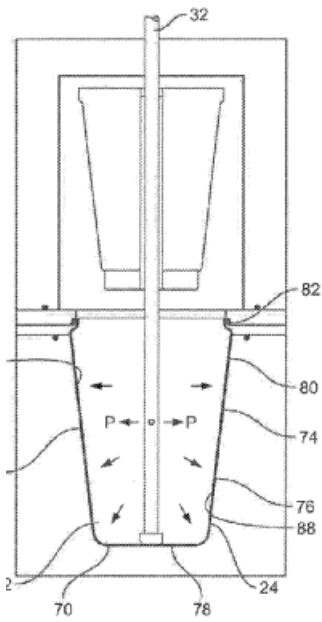
Definition statement

This place covers:

Stretching rod which includes openings on its surface which facilitate compressed air to be blown through the openings into the preform.

Illustrative example of subject matter classified in this group:





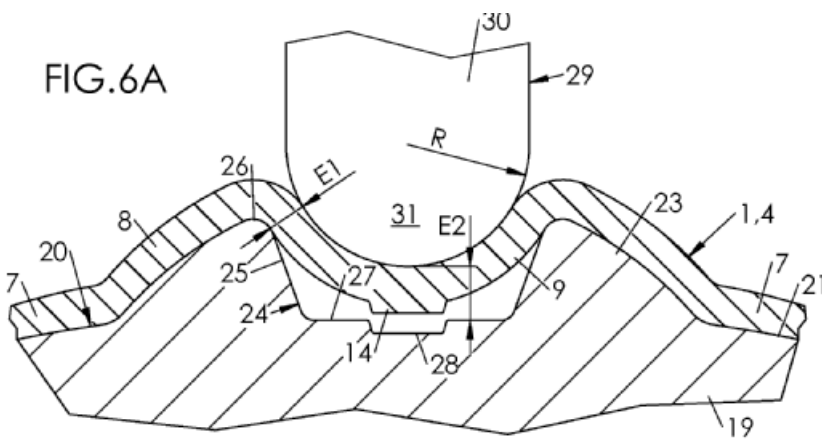
B29C 49/1215

Definition statement

This place covers:

Stretching rods which are particularly configured to have a specific geometry or shape.

Illustrative example of subject matter classified in this group:



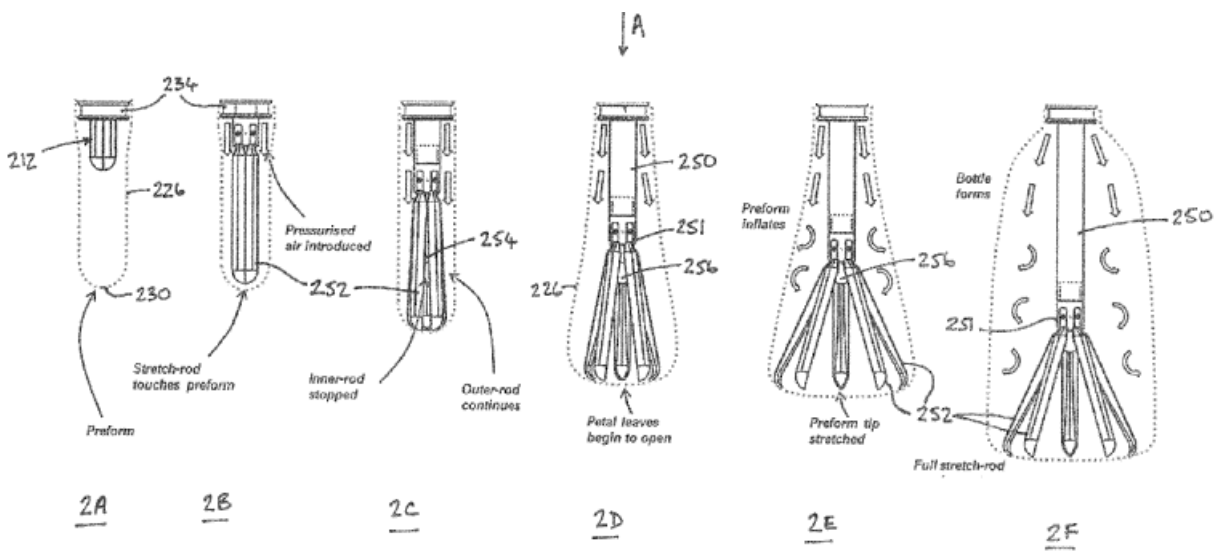
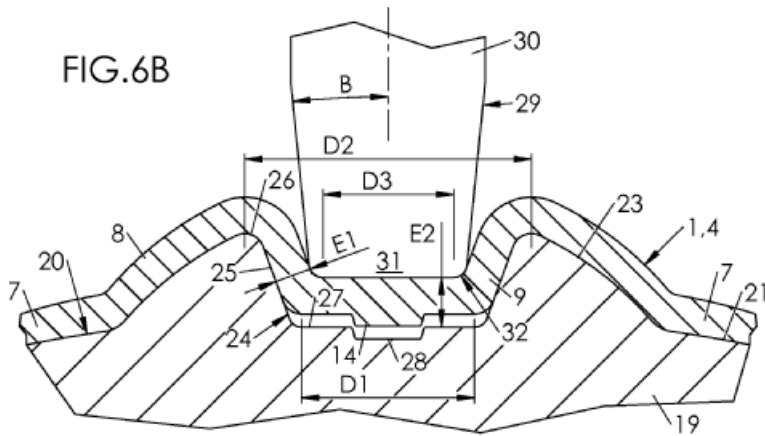
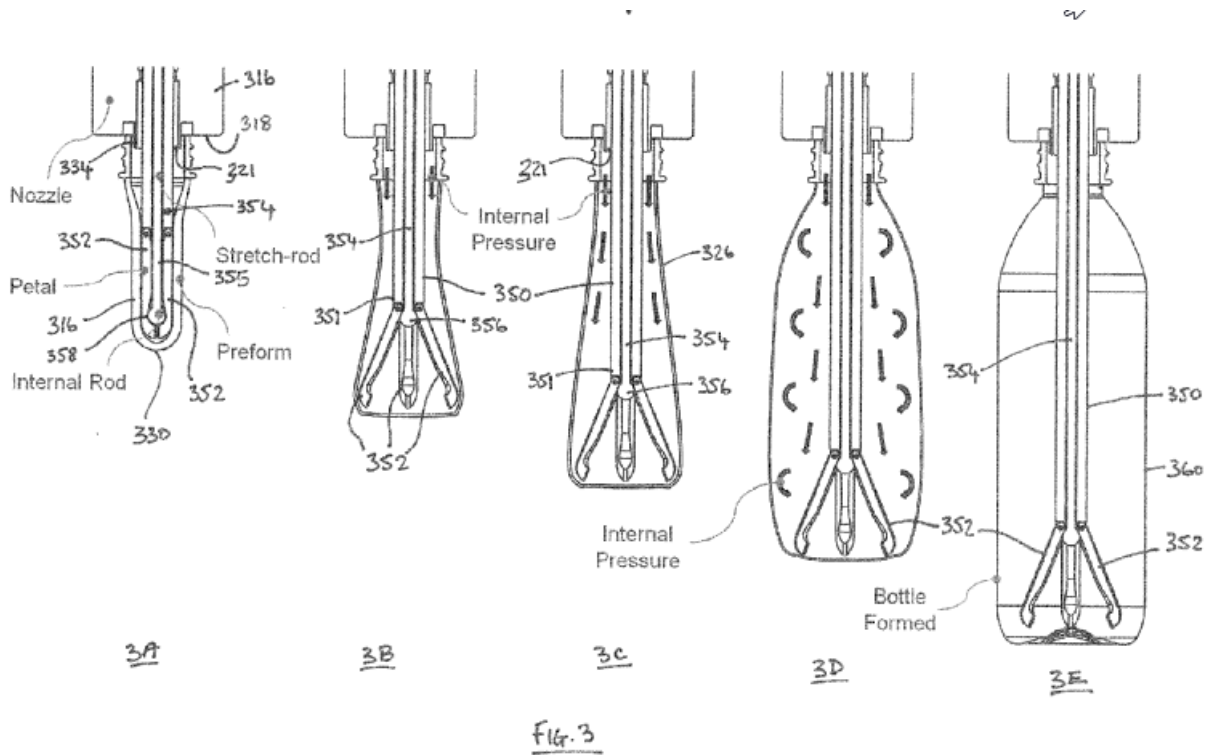


FIG. 2

DATE: MAY 1, 2022

PROJECT RP10424



B29C 49/1216

Definition statement

This place covers:

Stretching rods which are characterised by specific material, usually for a specific purpose.

B29C 49/1218

Definition statement

This place covers:

Stretching rods which are particularly suited to act upon heated preforms, e.g. tubes.

B29C 49/1222

Definition statement

This place covers:

Pneumatic drive apparatus for a stretching element that provides a controlled stretch ratio.

Illustrative example of subject matter classified in this group:

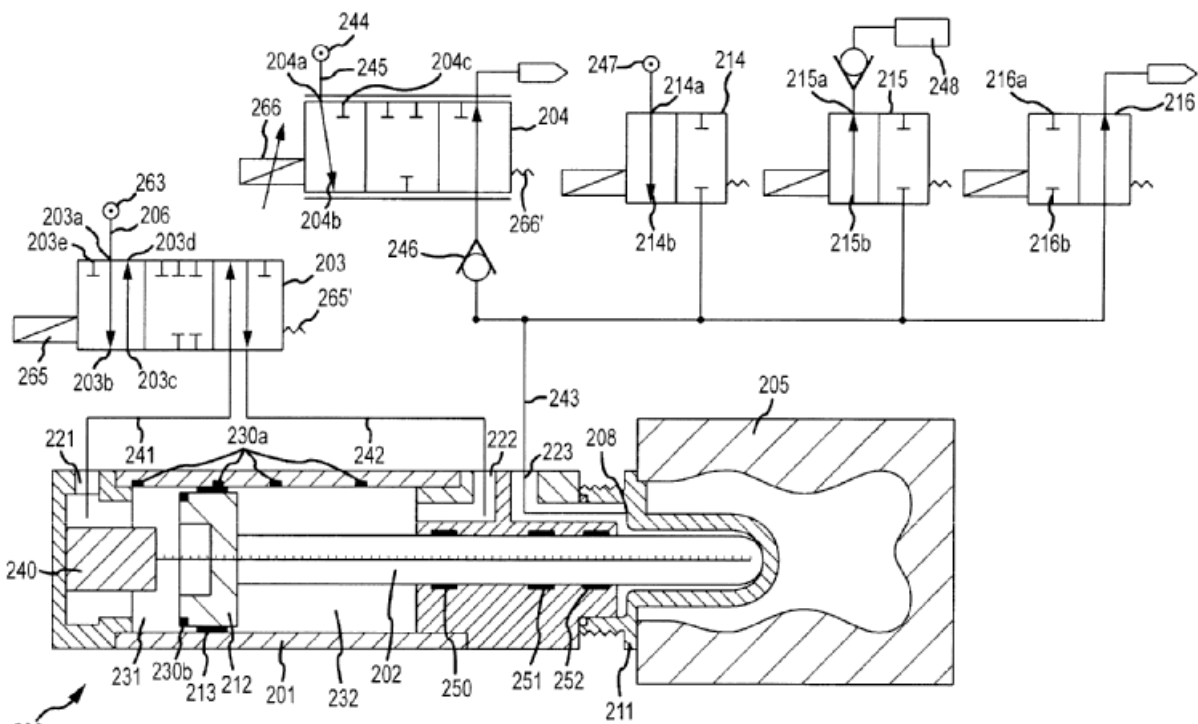
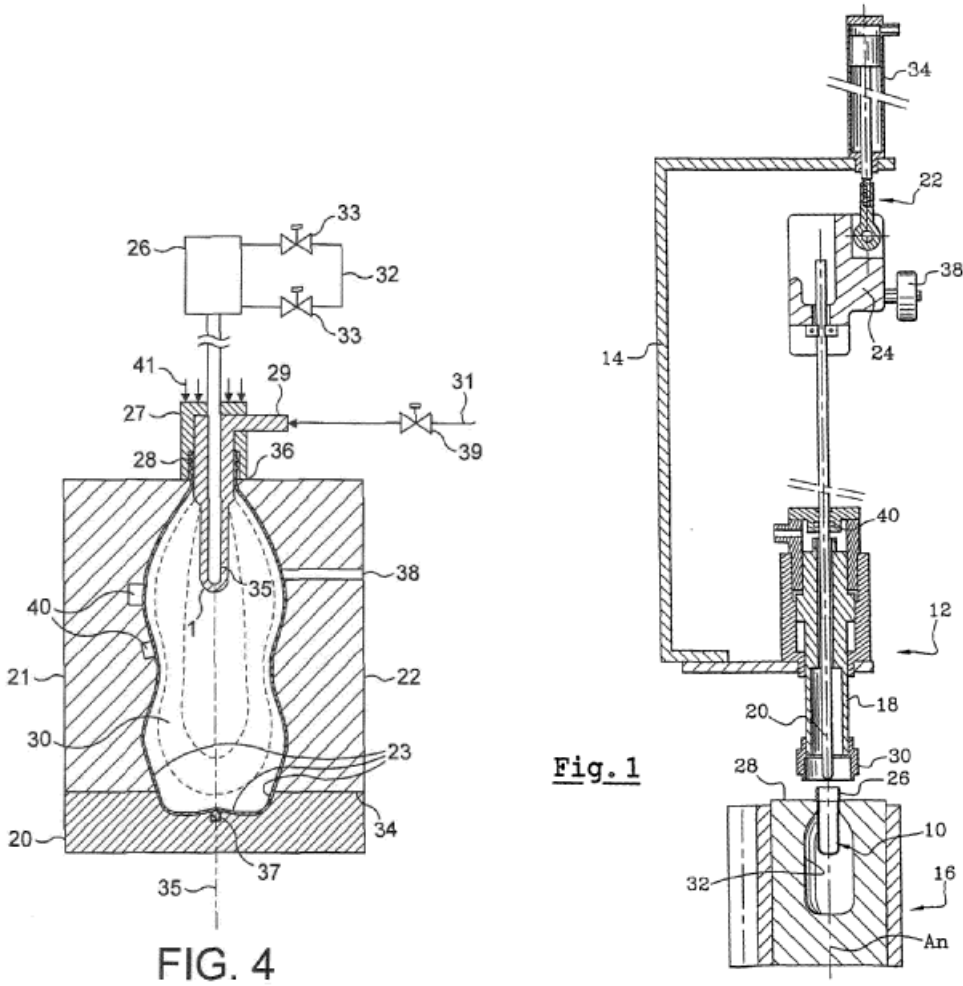


FIG.2



DATE: MAY 1, 2022

PROJECT RP10424

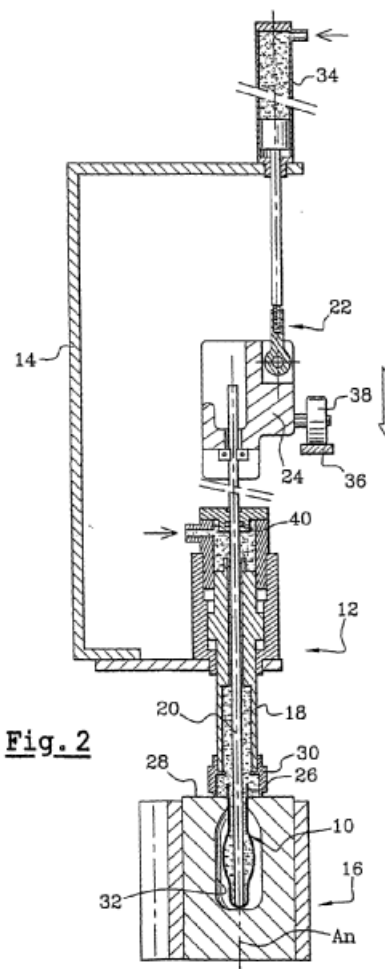


Fig. 2

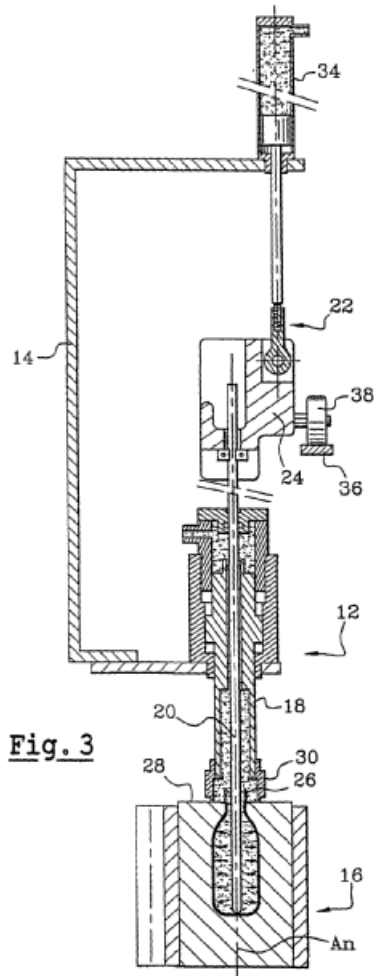
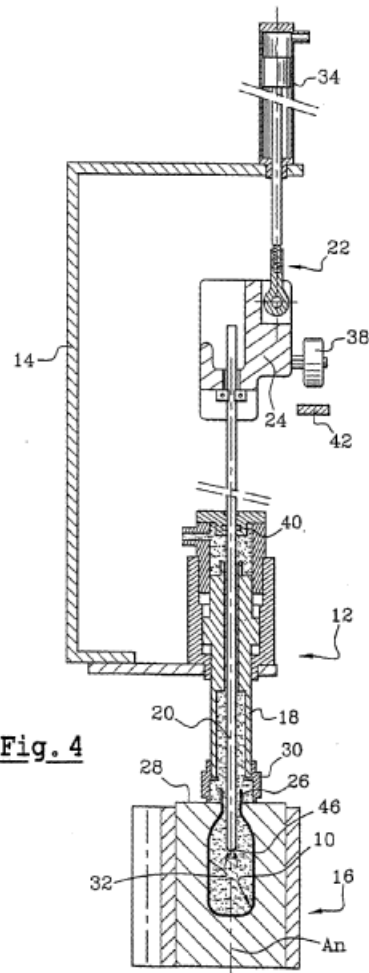


Fig. 3



B29C 49/1224

Definition statement

This place covers:

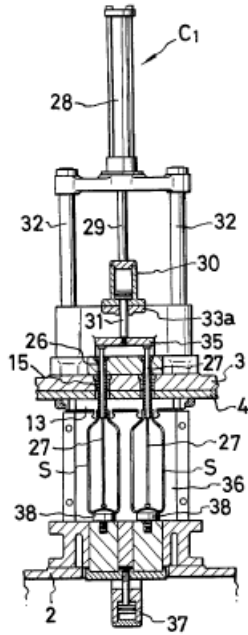
Hydraulic drive apparatus for a stretching element that provides a controlled stretch ratio.

Illustrative example of subject matter classified in this group:

A stretch cylinder, wherein the barrel and the stretch rod are hydraulic.

DATE: MAY 1, 2022

PROJECT RP10424



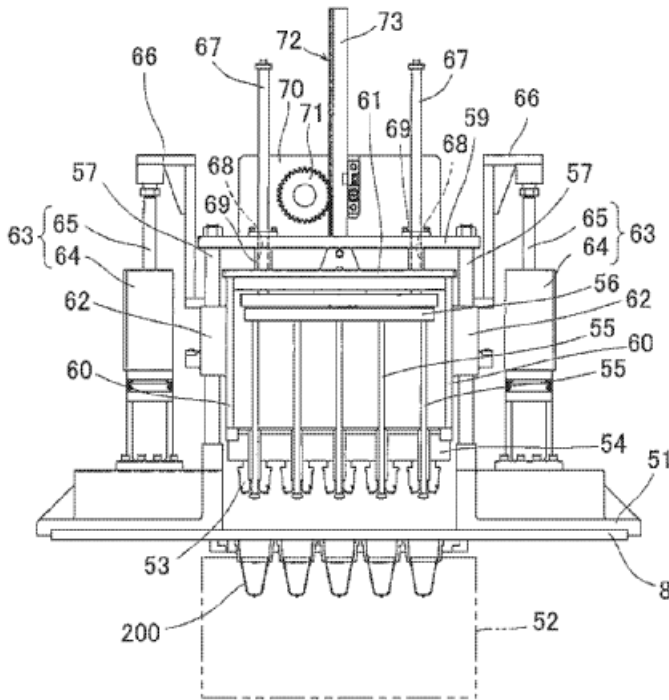
B29C 49/1226

Definition statement

This place covers:

Mechanical drive apparatus for a stretching element that provides a controlled stretch ratio.

Illustrative example of subject matter classified in this group:



B29C 49/1229

Definition statement

This place covers:

Stretching rod having a cam mechanism drive means, which stretching rod provides a controlled stretch ratio.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424

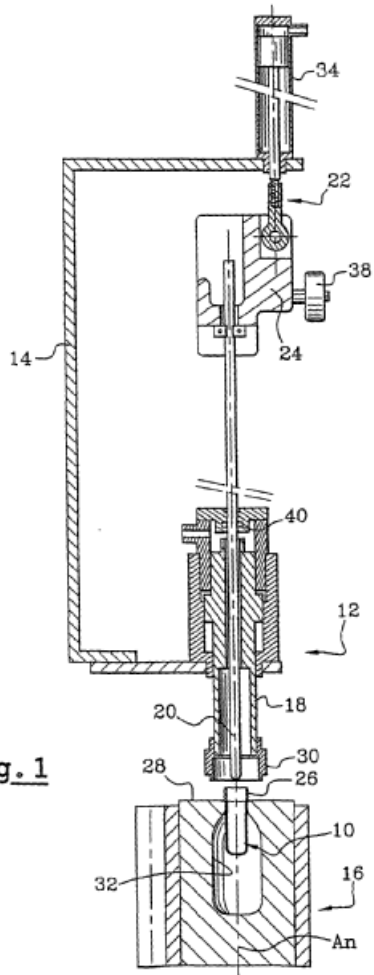


Fig. 1

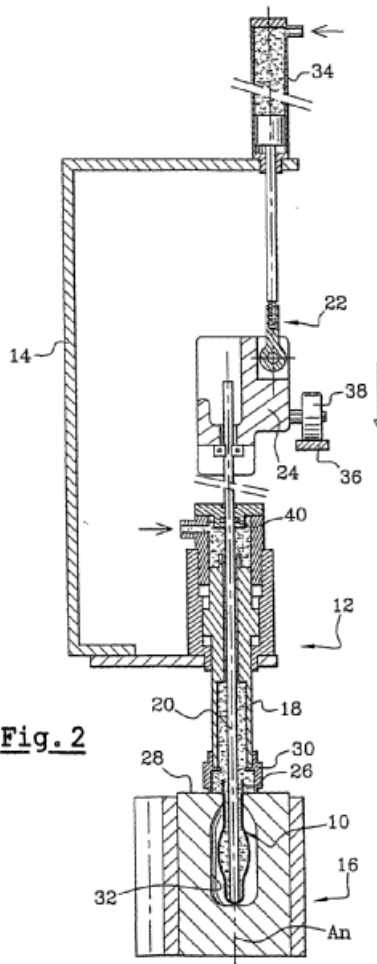


Fig. 2

DATE: MAY 1, 2022

PROJECT RP10424

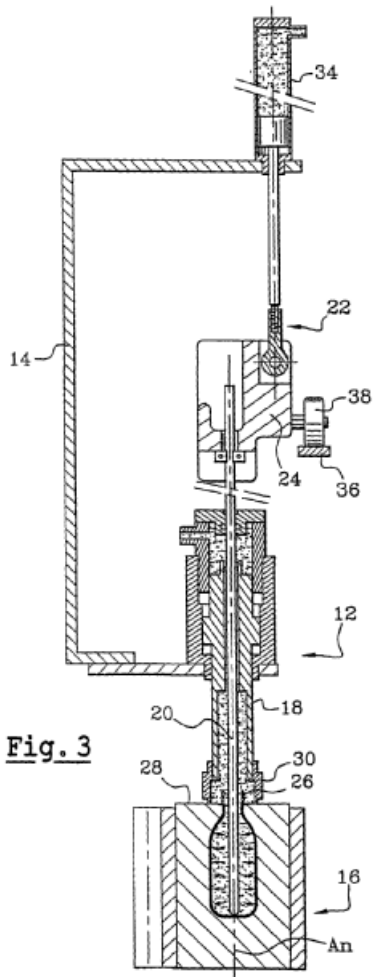


Fig. 3

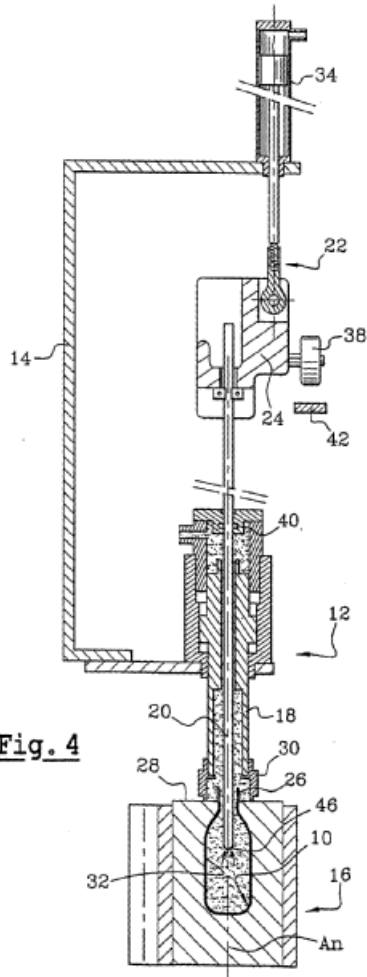
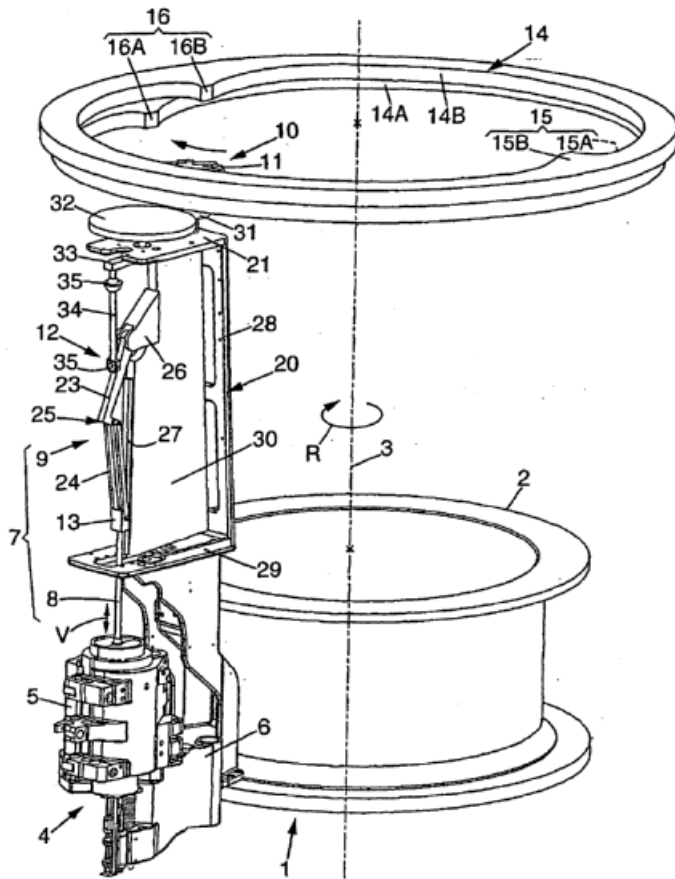


Fig. 4



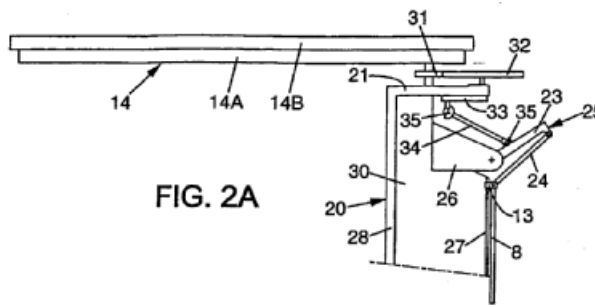


FIG. 2A

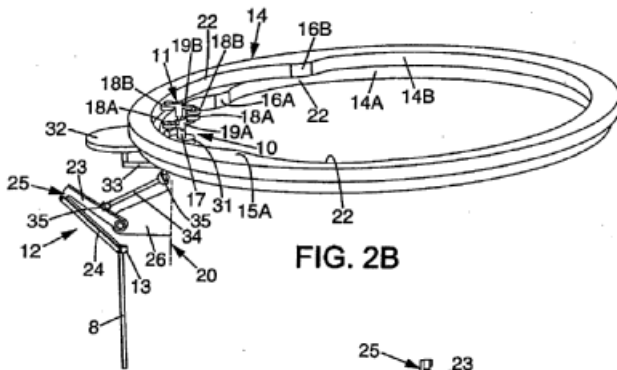


FIG. 2B

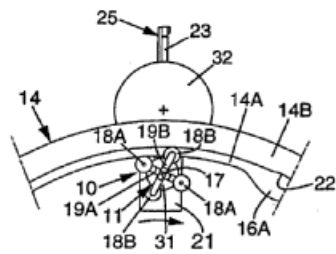


FIG. 2C

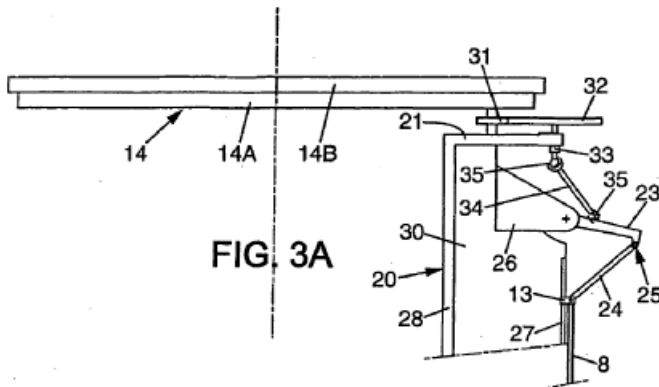


FIG. 3A

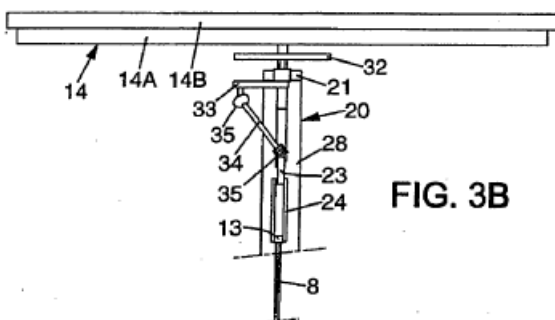


FIG. 3B

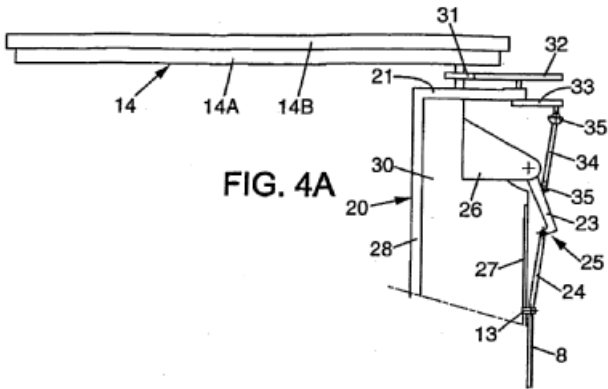


FIG. 4A

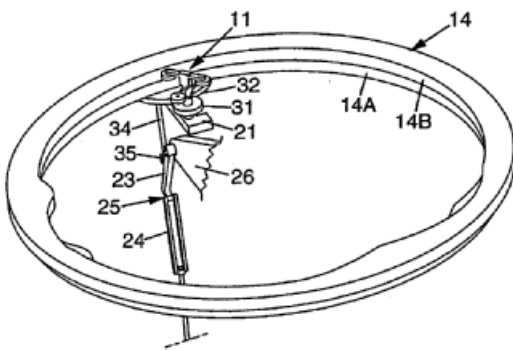


FIG. 4B

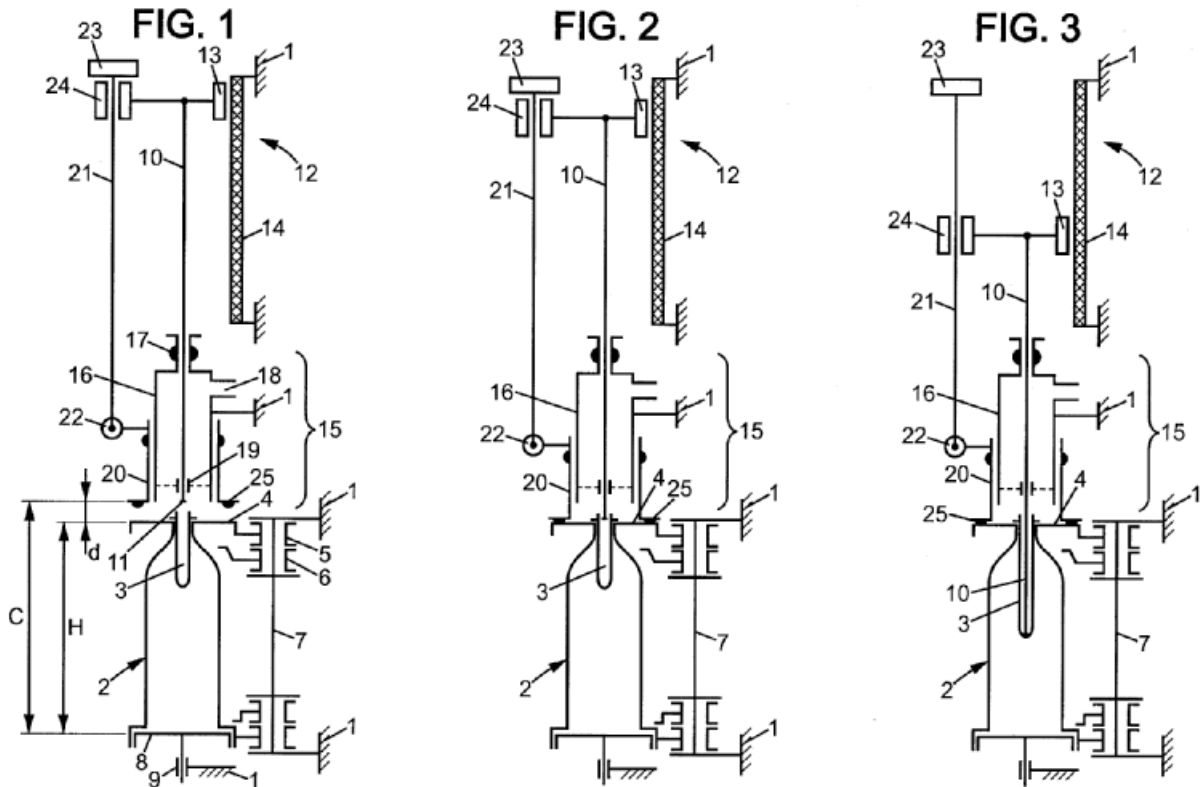
B29C 49/123

Definition statement

This place covers:

Blow-moulding which includes a stretch rod which is driven by electric motors.

Illustrative example of subject matter classified in this group:



B29C 49/1232

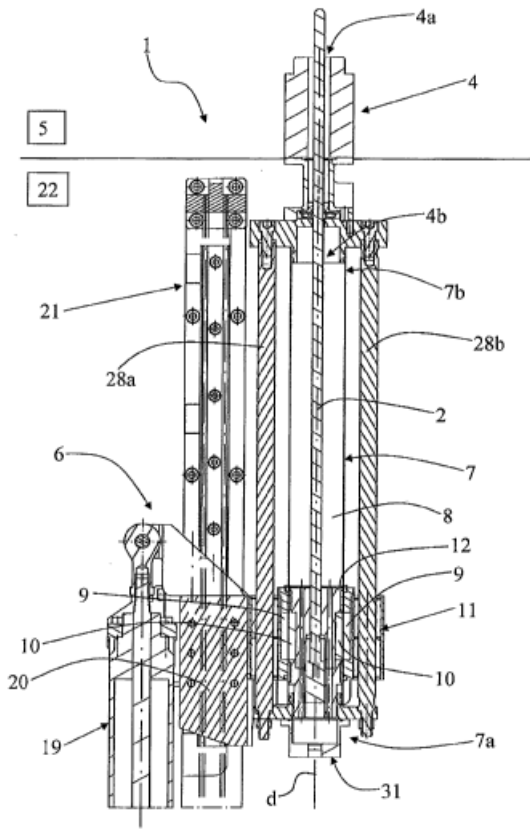
Definition statement

This place covers:

Magnetic drive apparatus for a stretching element that provides a controlled stretch ratio.

Illustrative example of subject matter classified in this group:

The activating means 6 comprise a first magnet arrangement 9 which is magnetically coupled with a second magnet arrangement 10 located within said chamber 8 and integral to the stretching rod 2.



B29C 49/1602

Definition statement

This place covers:

Blow-moulding method in which a pre-blowing step does not take place in a mould.

Illustrative example of subject matter classified in this group:

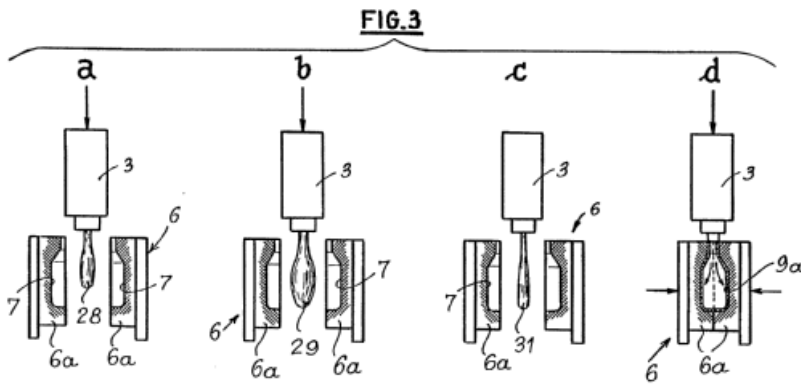


Fig. 1

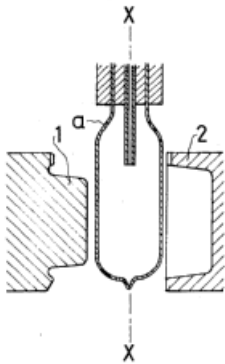
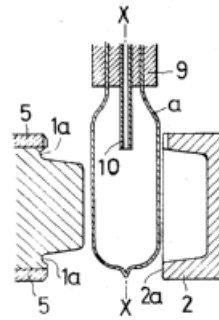


Fig. 4



B29C 49/1802

Definition statement

This place covers:

A blow-moulding method which is characterised by at least two mould cavities: the first cavity is larger than the second, often times to allow for a shrinkage/temperature conditioning step between the two cavities.

Illustrative example of subject matter classified in this group:

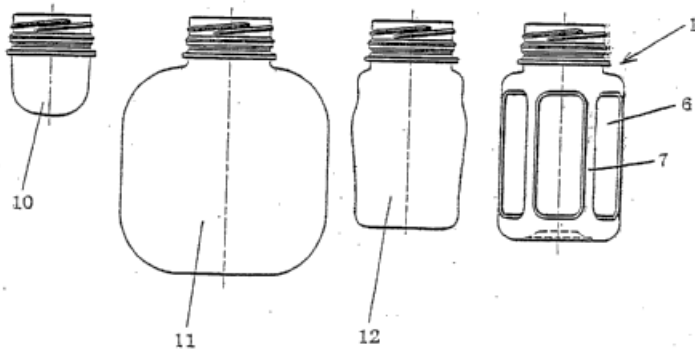
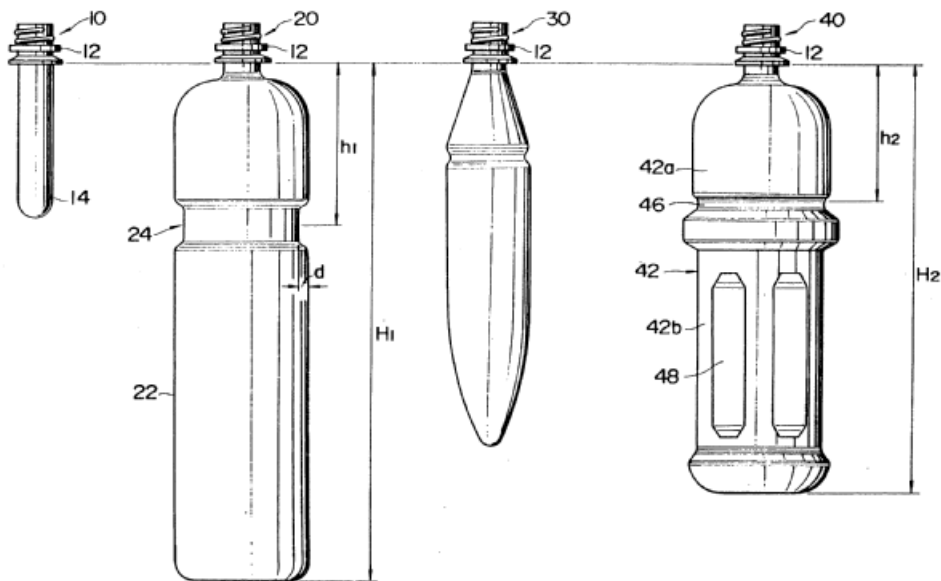


FIG. 1



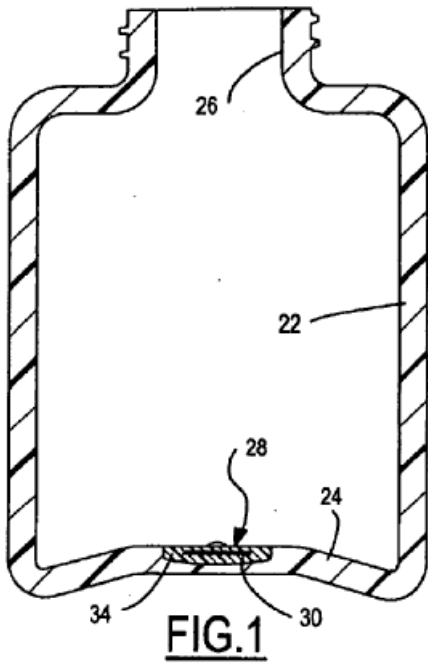
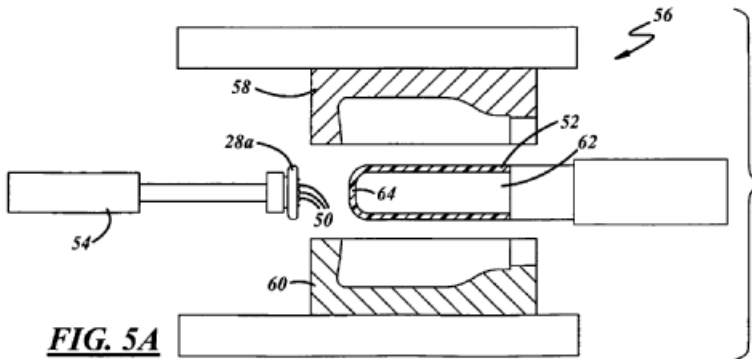
B29C 2049/2071

Definition statement

This place covers:

Blow-moulding articles comprising inserts of an electronic nature.

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

B29C 2049/2442

Definition statement

This place covers:

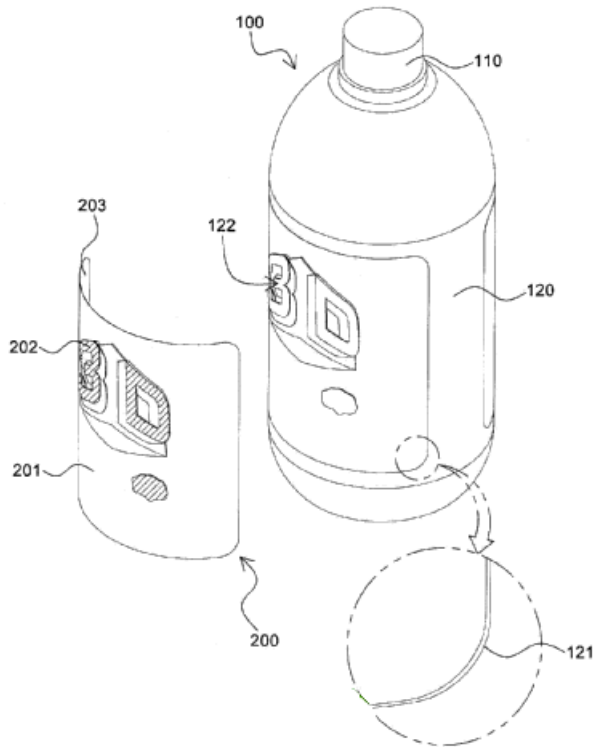
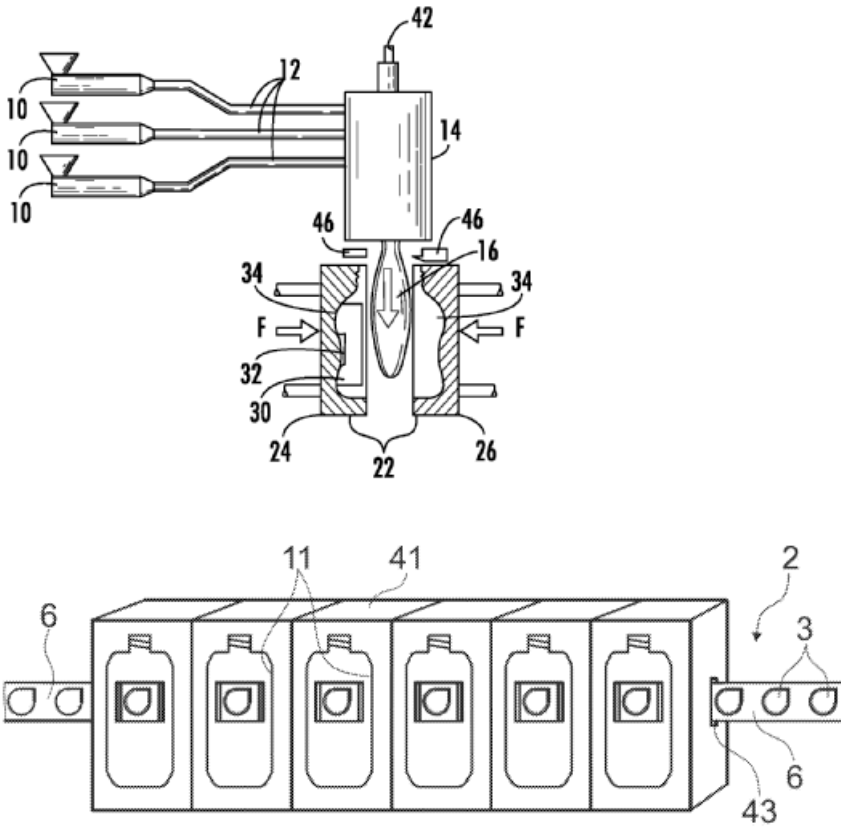
Blow-moulding process/apparatus which uses multi-layered preforms or parisons as the elements to which air is applied to cause shaping.

B29C 49/249

Definition statement

This place covers:

Labelling process which includes a method for moulding a plastic container within a mould including an RFID tag to generate a container which leaves a mould having an RFID tag bonded between the container and a label. This method provides for an integrally, extrusion blow-moulded container, label and RFID tag combination.

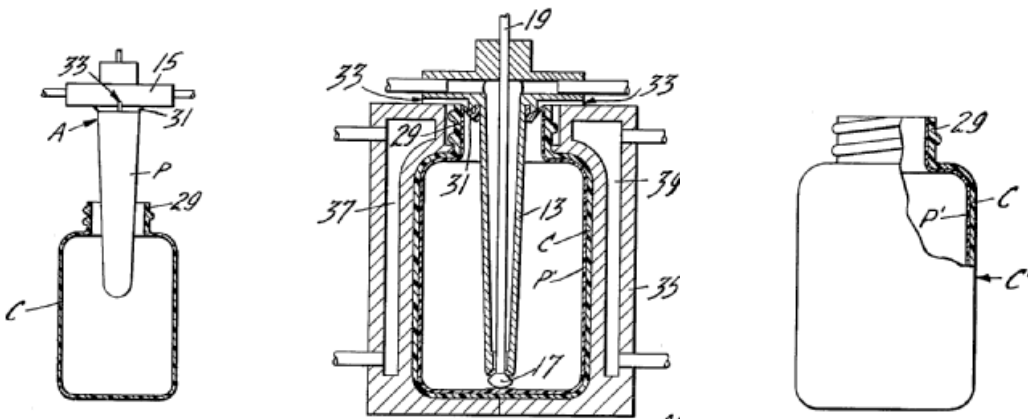


B29C 49/251

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



References

Limiting references

This place does not cover:

Inner lining of tubes	B29C 49/26
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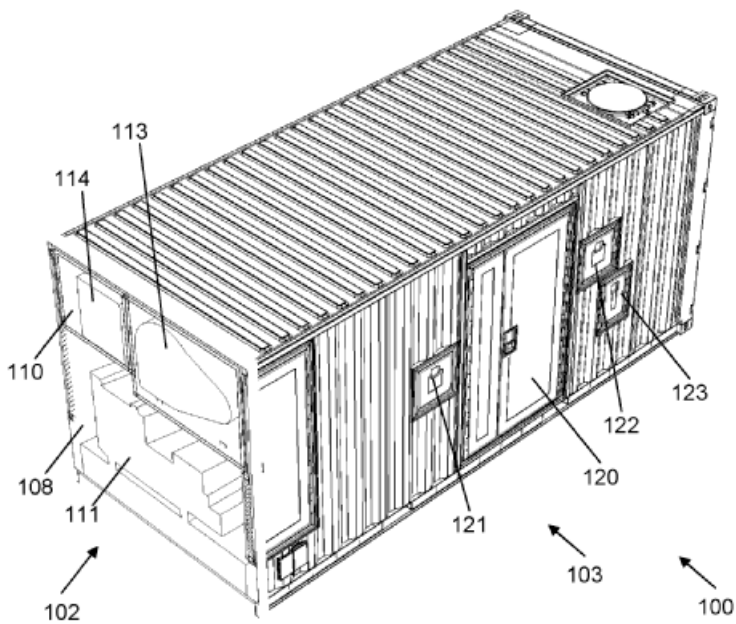
B29C 49/28002

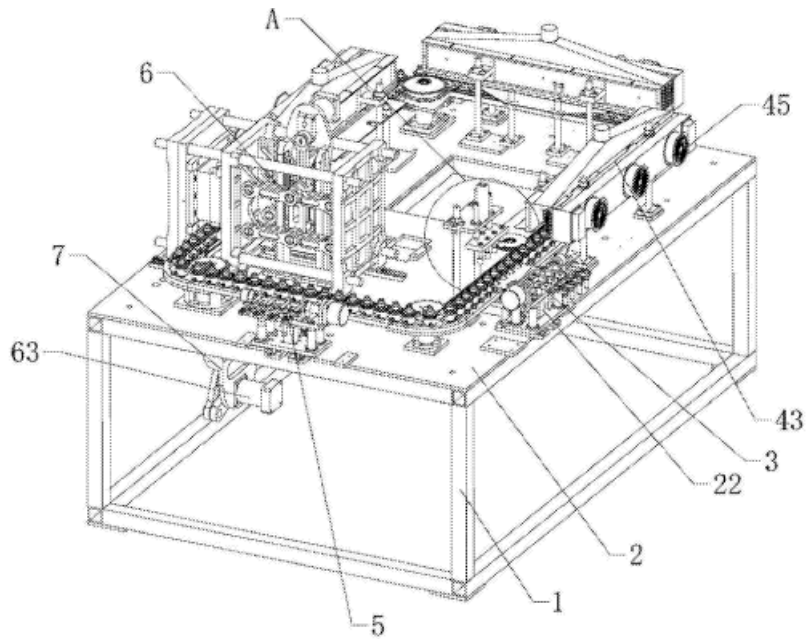
Definition statement

This place covers:

Blow-moulding machines which are smaller in scale than other machines to accommodate experimental environments or situations where transportability is ideal.

Illustrative example of subject matter classified in this group:





B29C 49/28004

Definition statement

This place covers:

A blow-moulding machine which is designed to be easily accessed/operated by an operator.

B29C 49/28006

Definition statement

This place covers:

A blow-moulding machine which is characterised by a particular frame configuration.

Illustrative example of subject matter classified in this group:

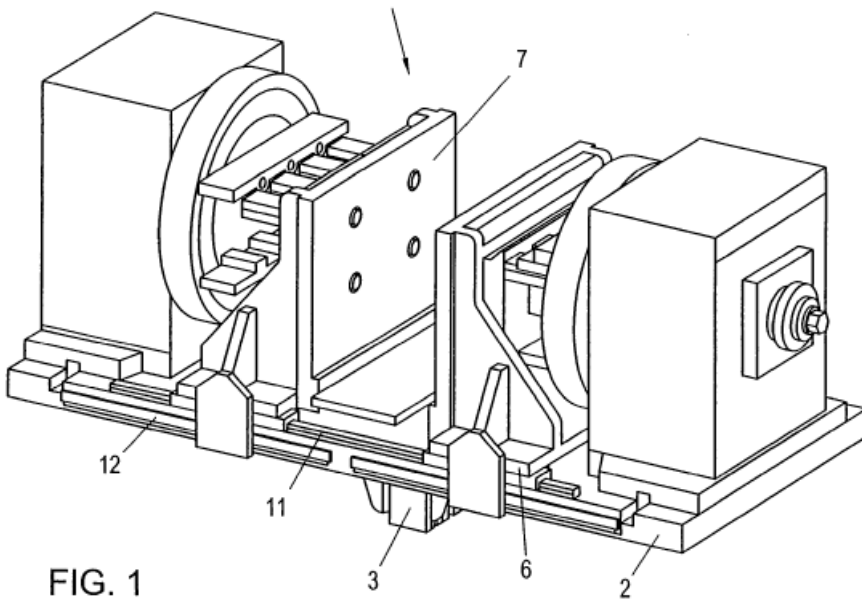
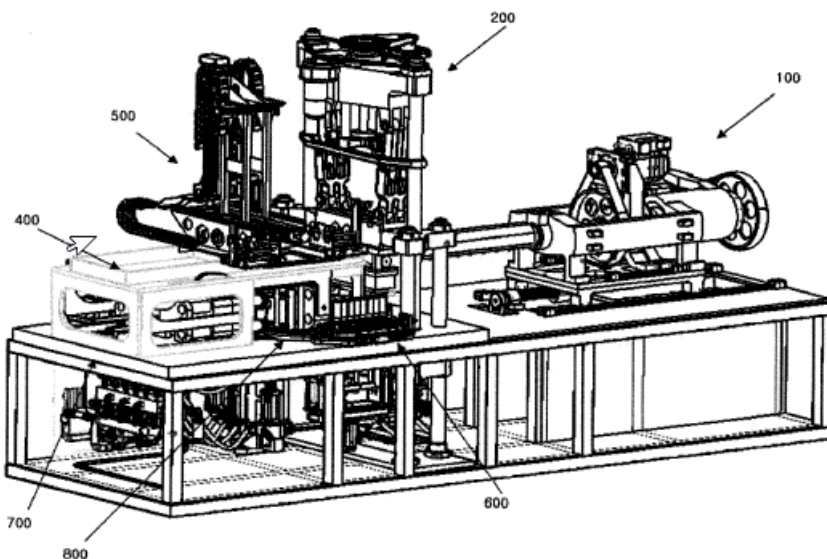


FIG. 1



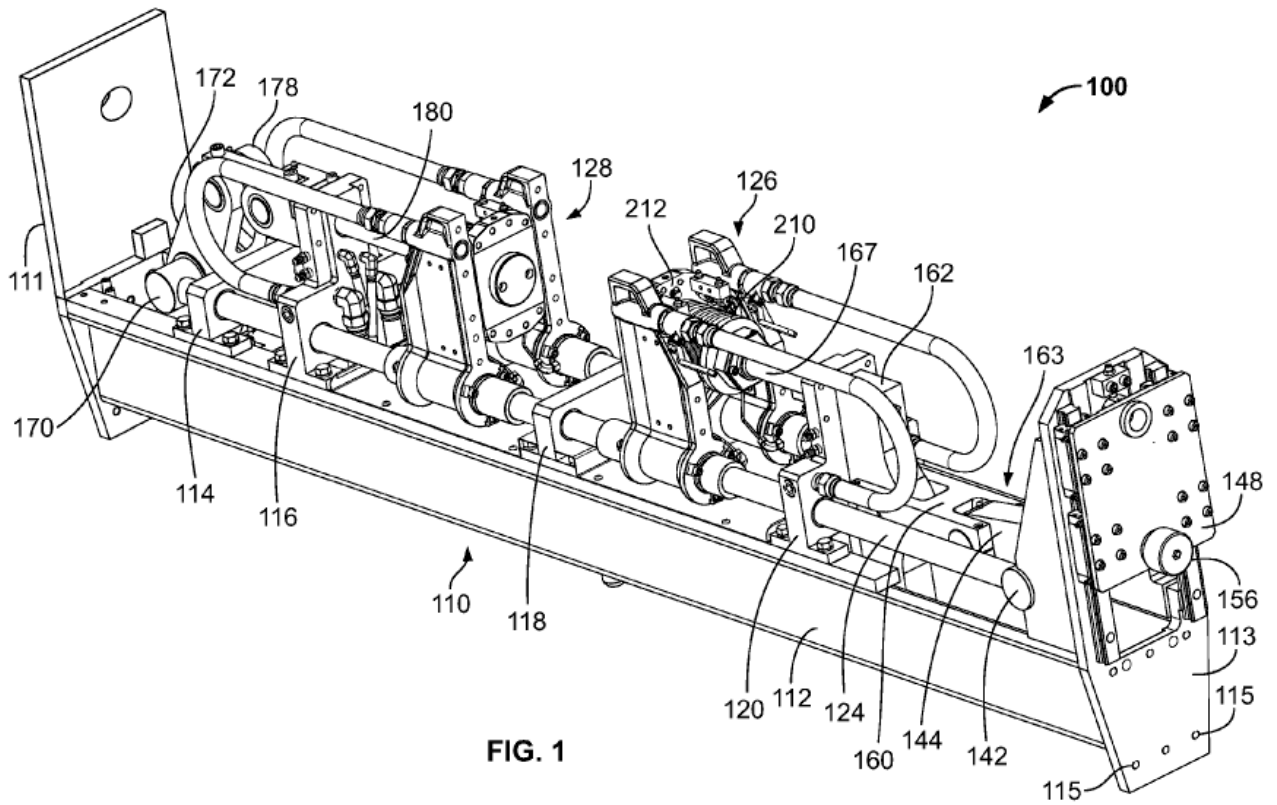
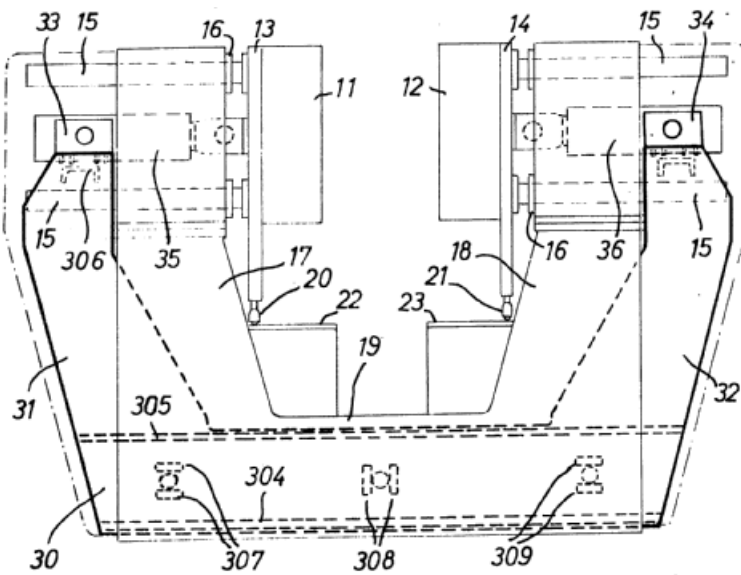


FIG. 1



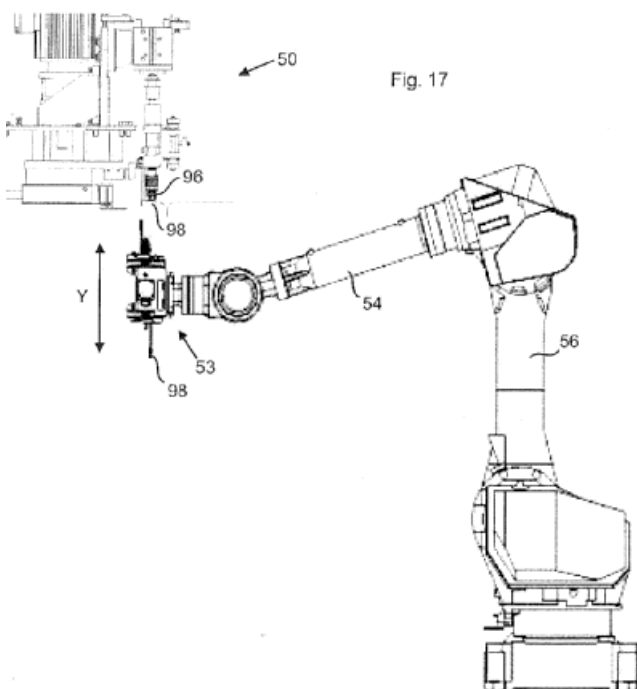
B29C 49/28008**Definition statement**

This place covers:

A blow-moulding machine which includes interchangeable/modular parts, allowing for ease of mounting, exchanging or repositioning.

Illustrative example of subject matter classified in this group:

FIG. 17 shows a presentation as an illustration of the process of changing a handling part. Here, the change arm 54 is essentially moved upwards vertically (cf. double arrow Y) by the respective joints, in order to exchange the handling parts, here heating mandrels 96 and shielding plates 98. It is possible to, at first, remove the existing handling parts 96 and 98, then turn the changing element 53 by 180° in order to arrange immediately the new handling parts on the heating device 50.



DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/28012

Definition statement

This place covers:

A blow-moulding machine which includes several moulds having different features than each other, e.g. size, shape.

References

Limiting references

This place does not cover:

Making articles of indefinite length by subsequent mould cavities being different

B29C 49/0025

B29C 49/42053

Definition statement

This place covers:

Auxiliary blow-mould element which facilitates removal of a preform from mould elements.

Illustrative example of subject matter classified in this group:

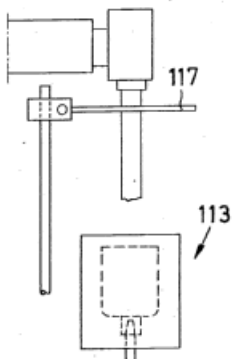
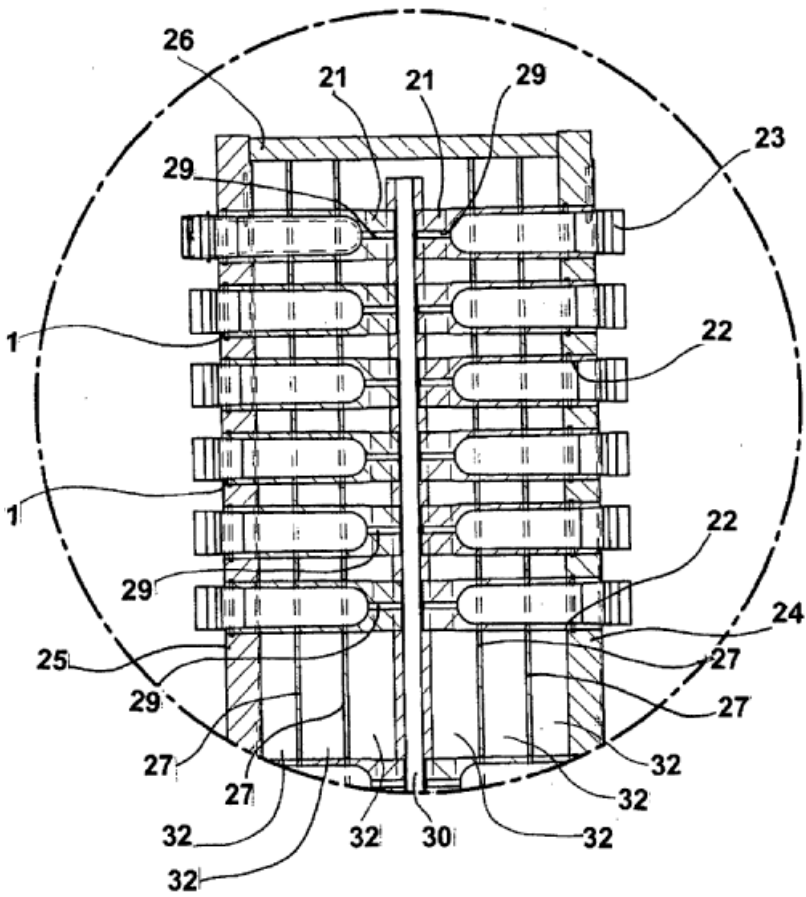


FIG. 4a

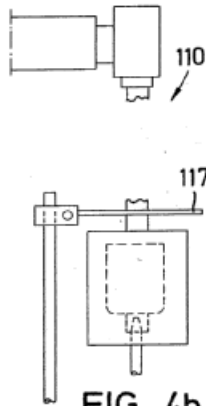


FIG. 4b

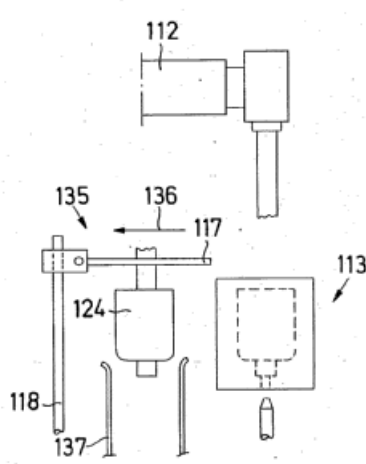


FIG. 4c

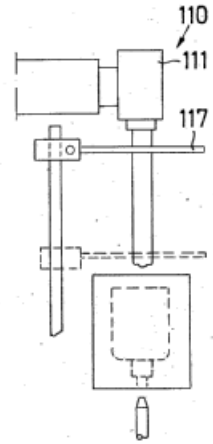


FIG. 4d

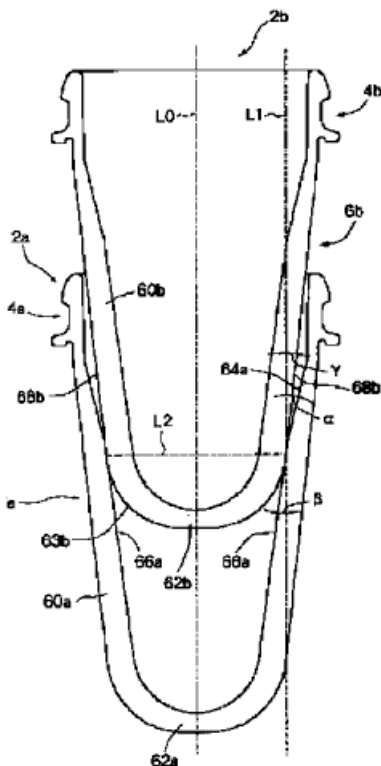
B29C 49/42055

Definition statement

This place covers:

Auxiliary blow-mould element which unstacks preforms which are originally arranged in a stacked configuration.

Illustrative example of subject matter classified in this group:



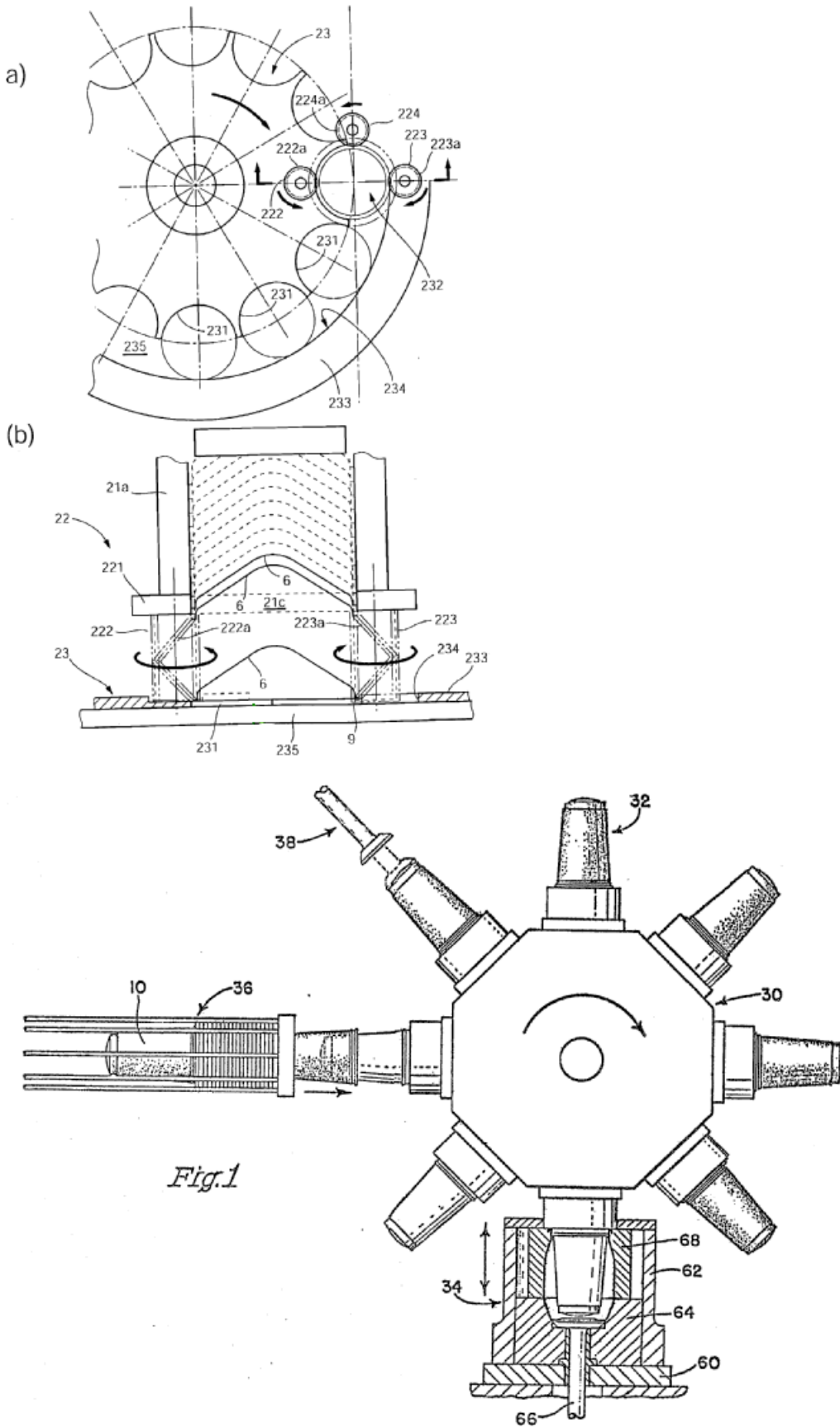


Fig.1

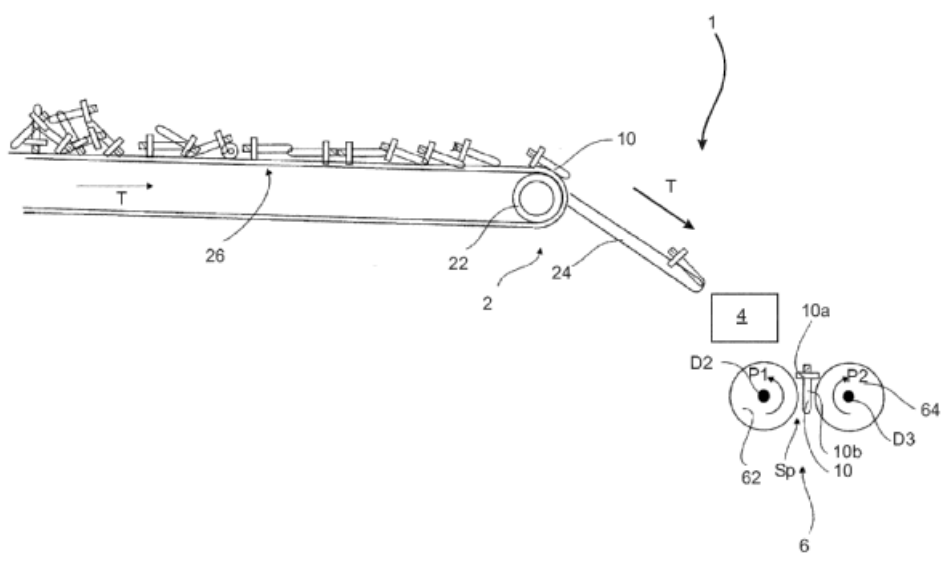
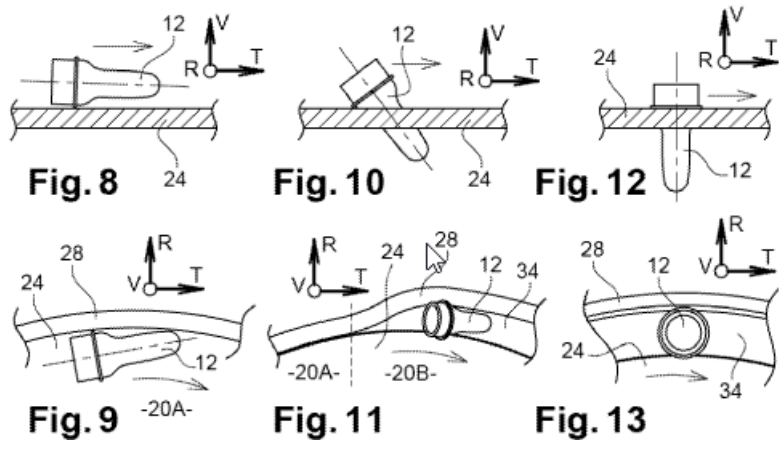
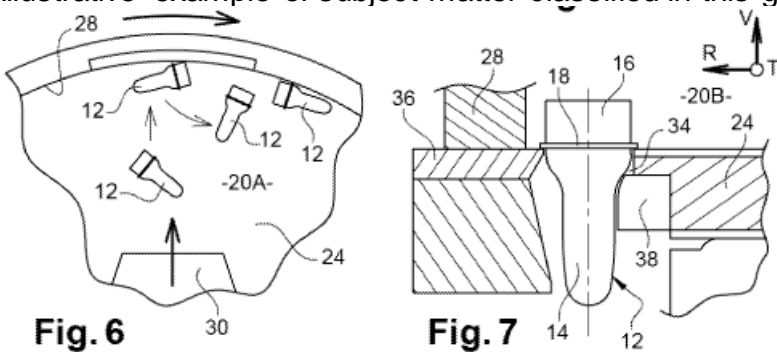
B29C 49/42057

Definition statement

This place covers:

Auxiliary blow-mould element which facilitates organization of preforms which are originally not arranged in any sort of order.

Illustrative example of subject matter classified in this group:



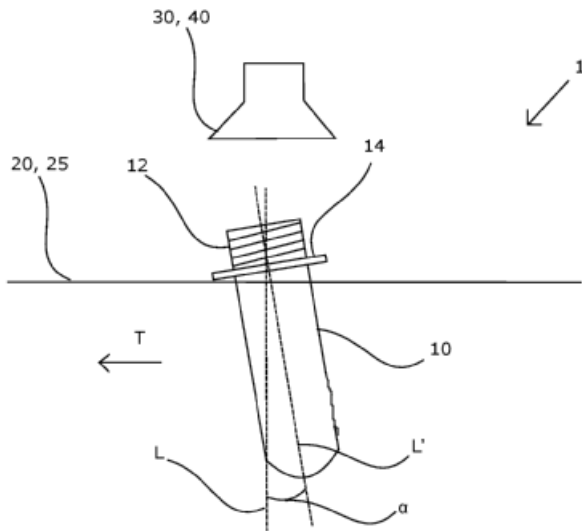
B29C 49/42059

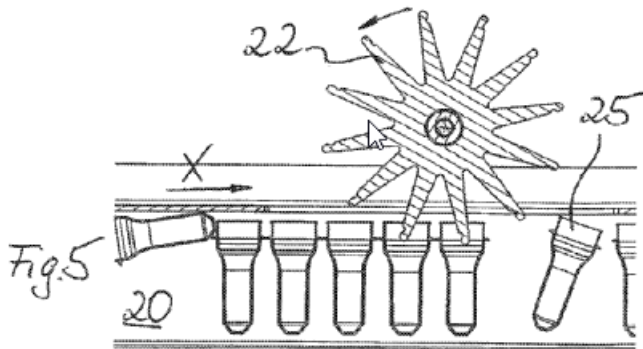
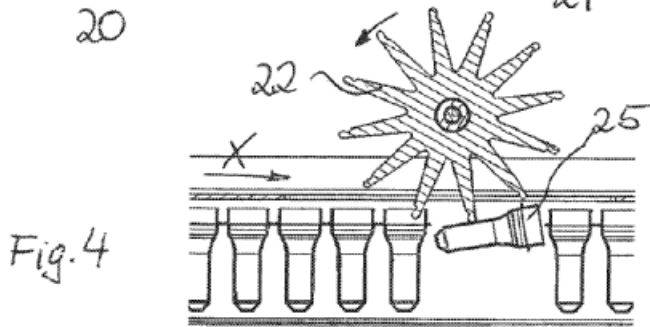
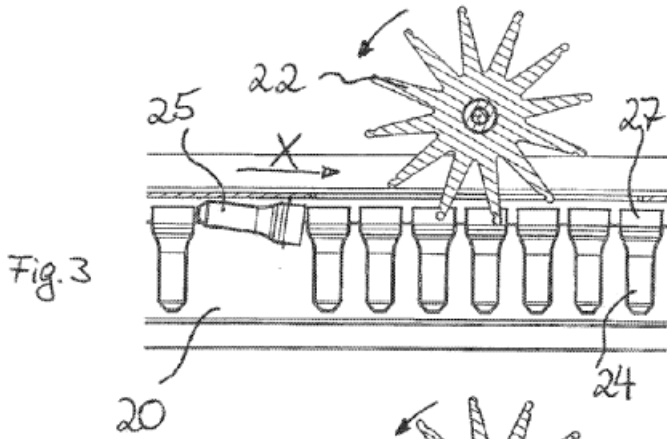
Definition statement

This place covers:

Preform handling process or method which would correct any preforms which are not oriented in the proper way, e.g. tilted, misaligned.

Illustrative example of subject matter classified in this group:





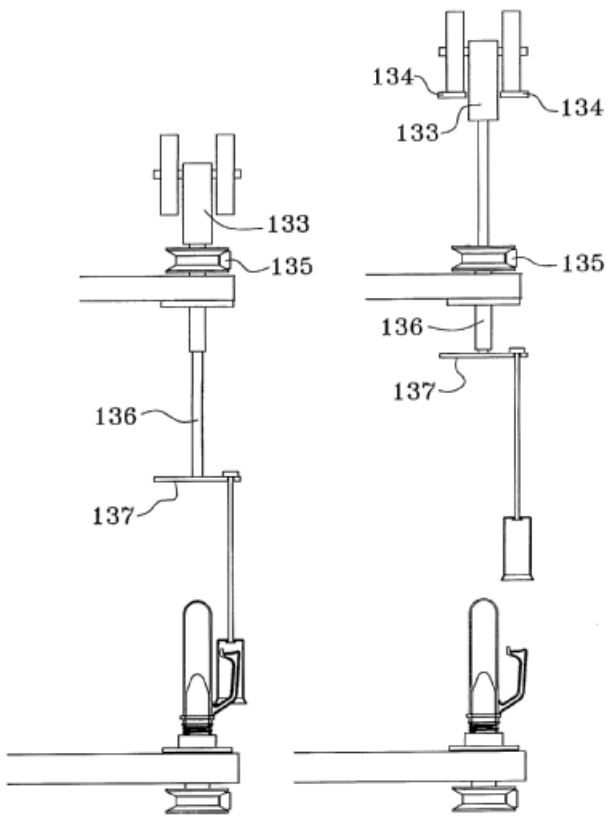
B29C 49/42061

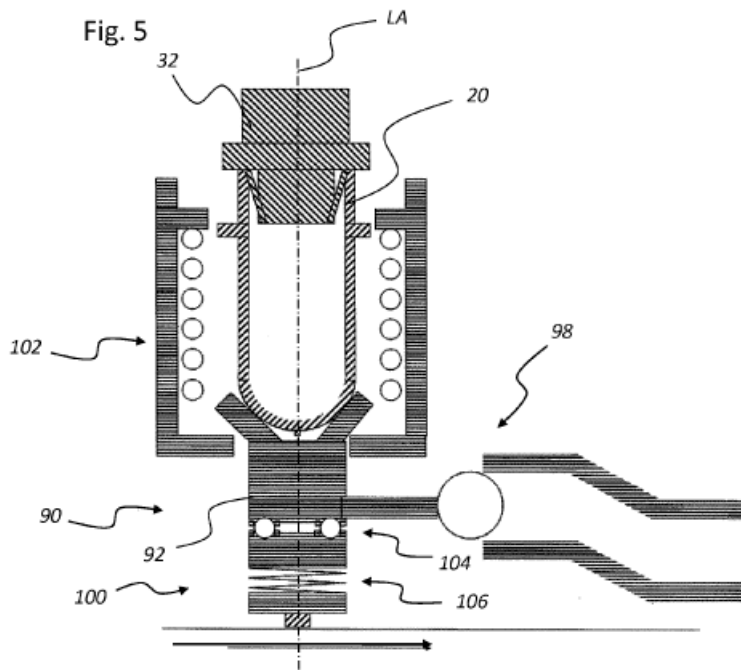
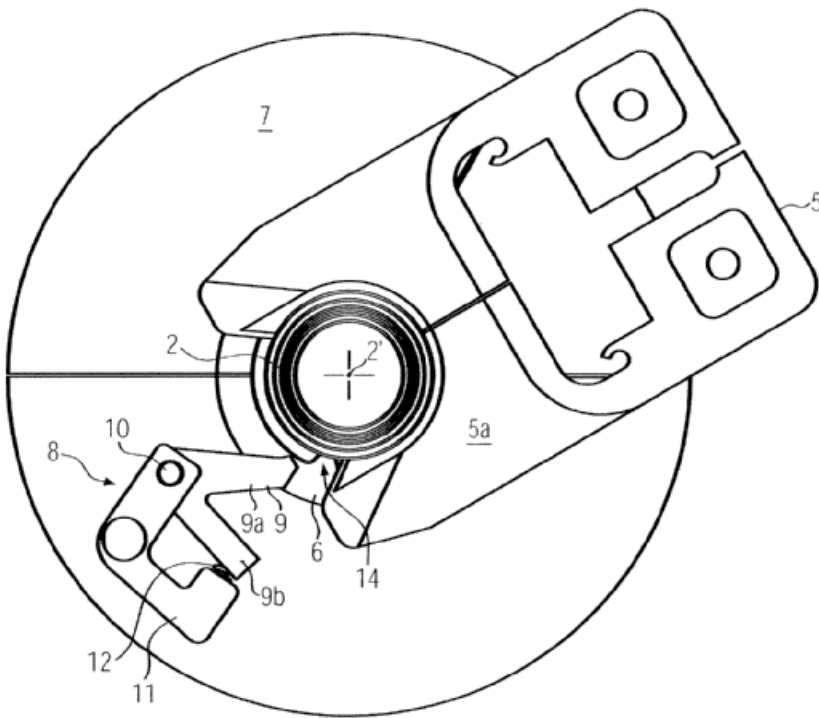
Definition statement

This place covers:

Structures associated with the handling means that correct or ensure the proper orientation of the preforms.

Illustrative example of subject matter classified in this group:





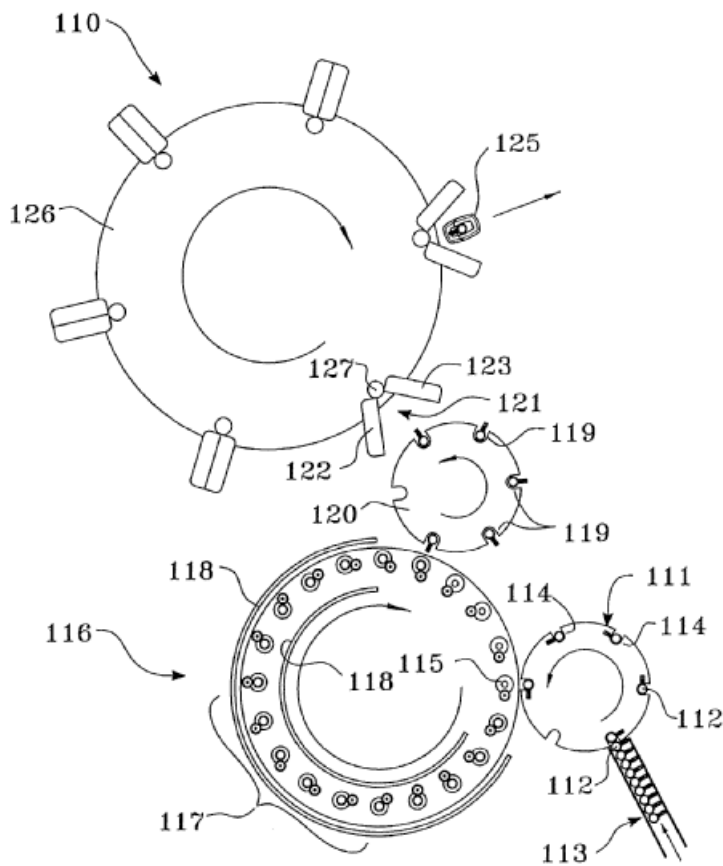
B29C 49/42063

Definition statement

This place covers:

Structures associated with the handling means that correct or ensure the proper orientation of the preforms with respect to the mould.

Illustrative example of subject matter classified in this group:



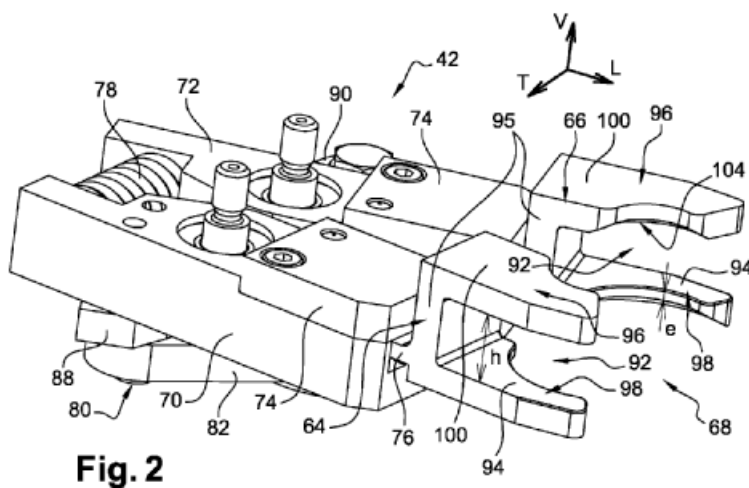
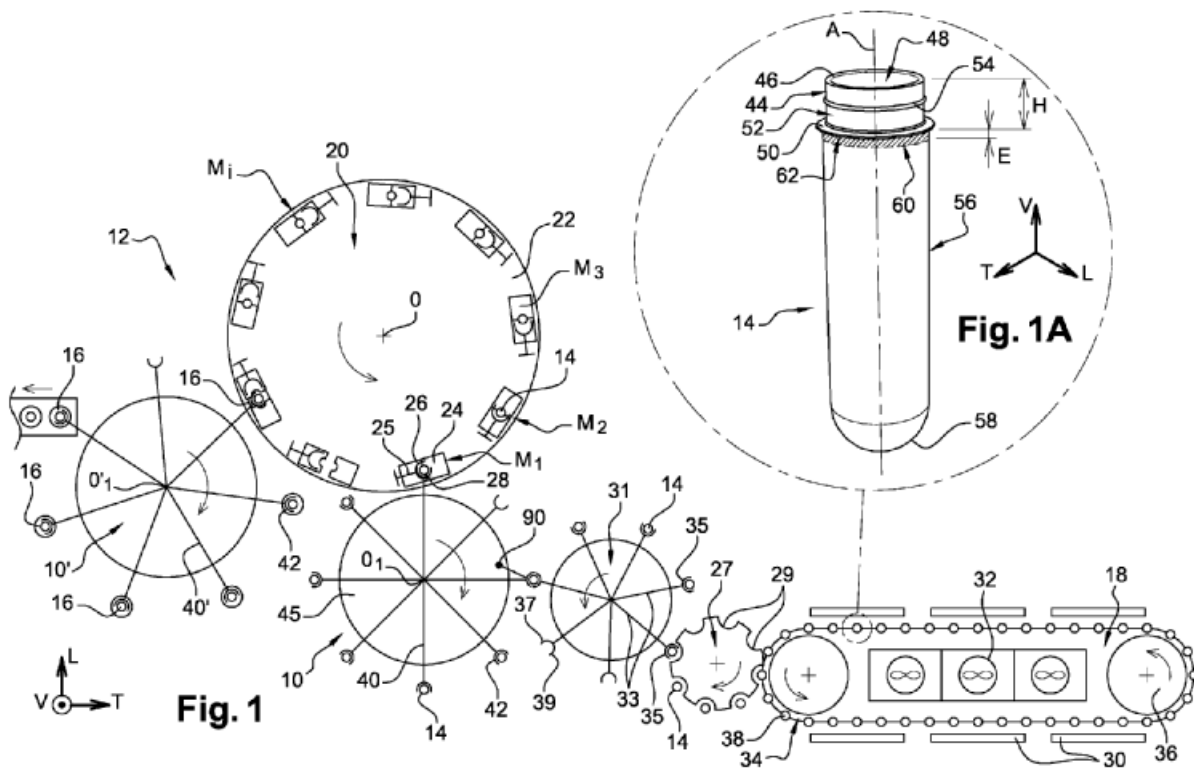
B29C 49/42065

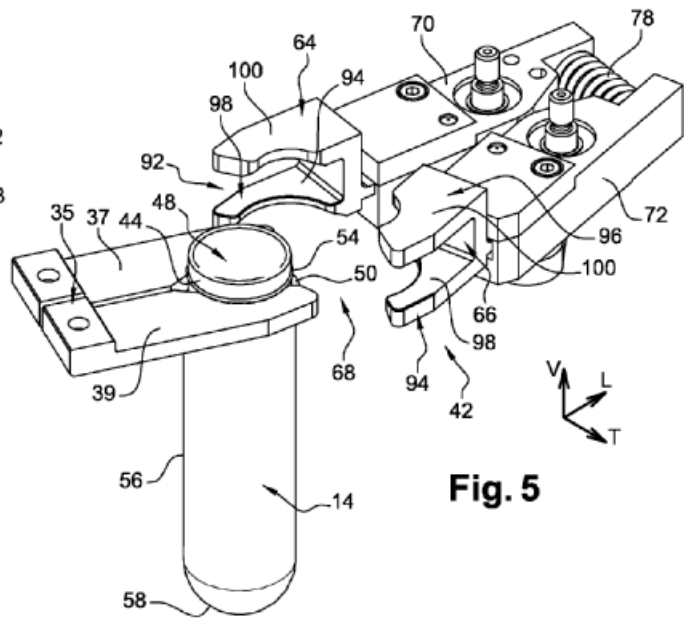
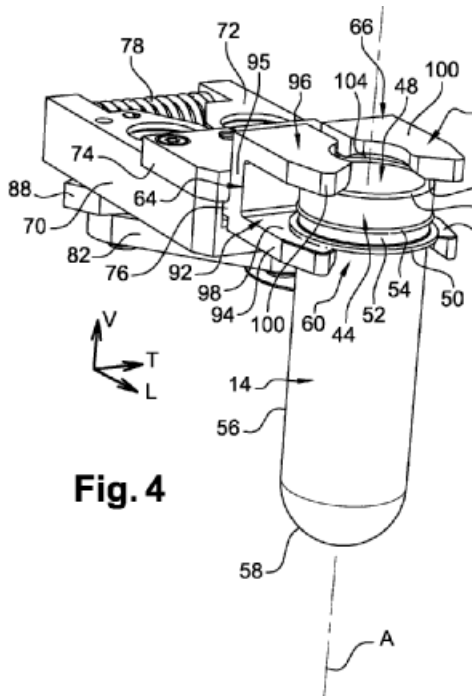
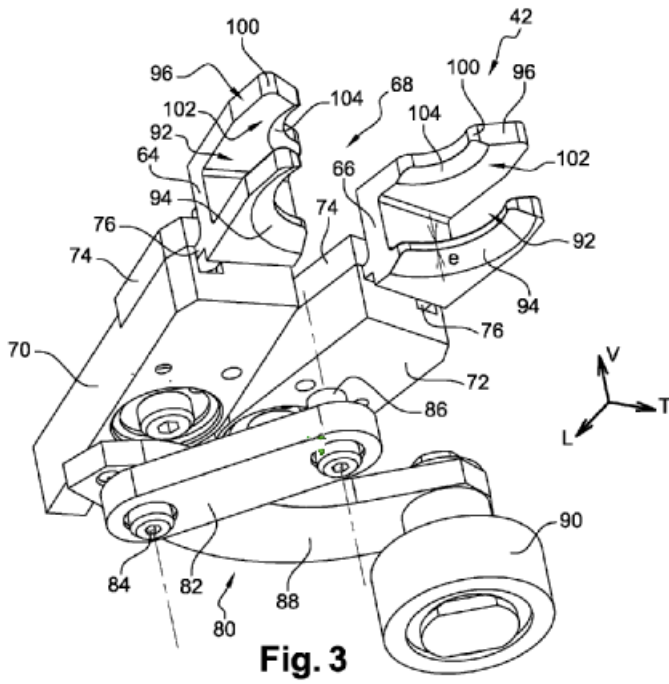
Definition statement

This place covers:

Handling means structures which move, transfer, grip, carry, or otherwise relocate preforms from one location to another location.

Illustrative example of subject matter classified in this group:





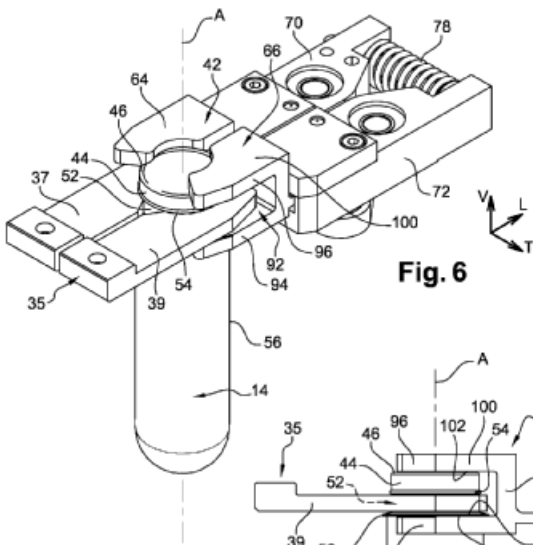


Fig. 6

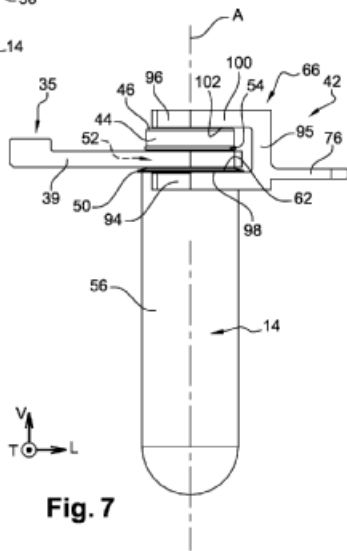


Fig. 7

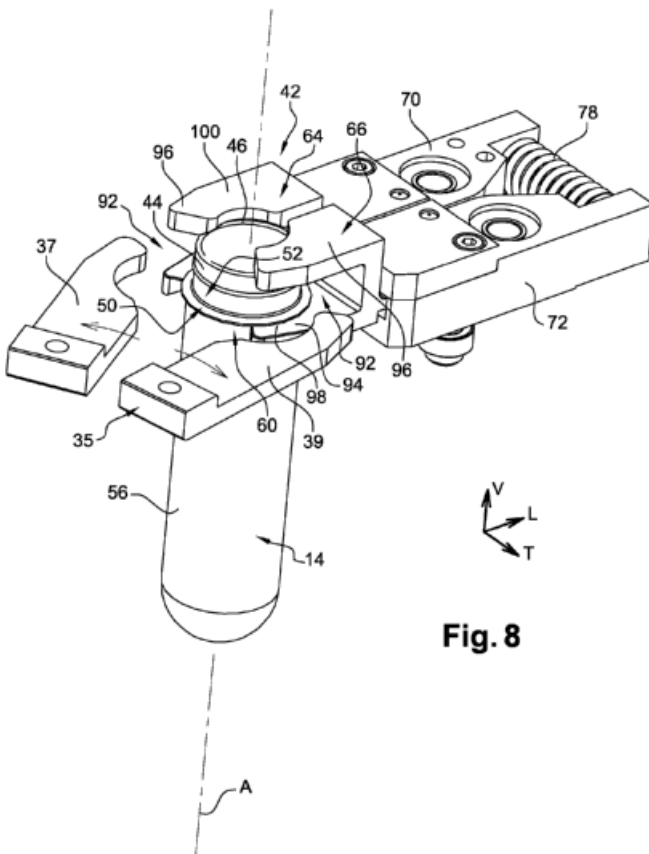


Fig. 8

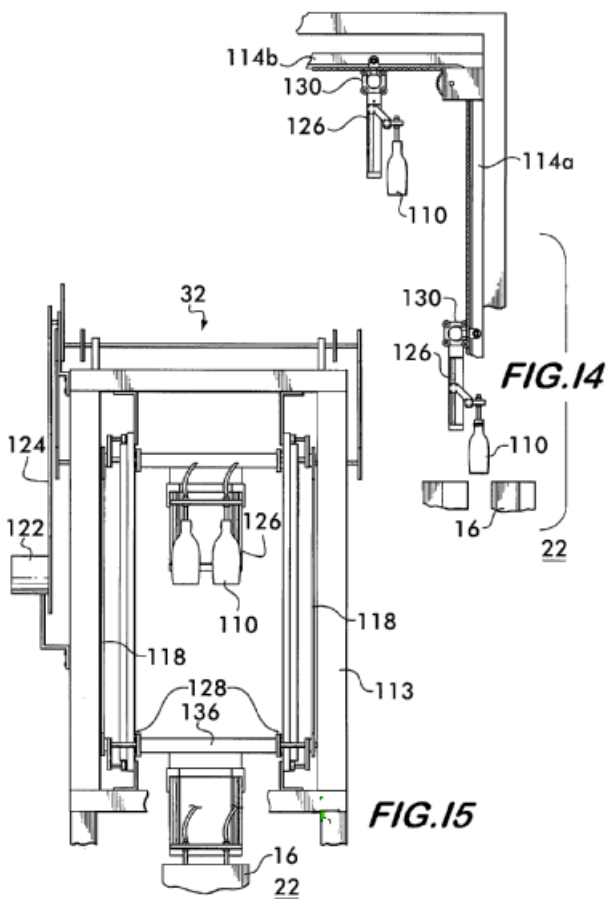
B29C 49/42069

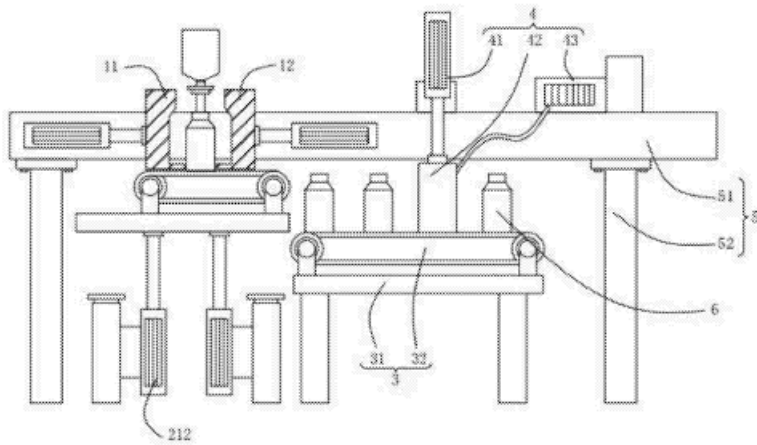
Definition statement

This place covers:

Handling means structures which are only for transporting the blown article.

Illustrative example of subject matter classified in this group:





B29C 49/4207

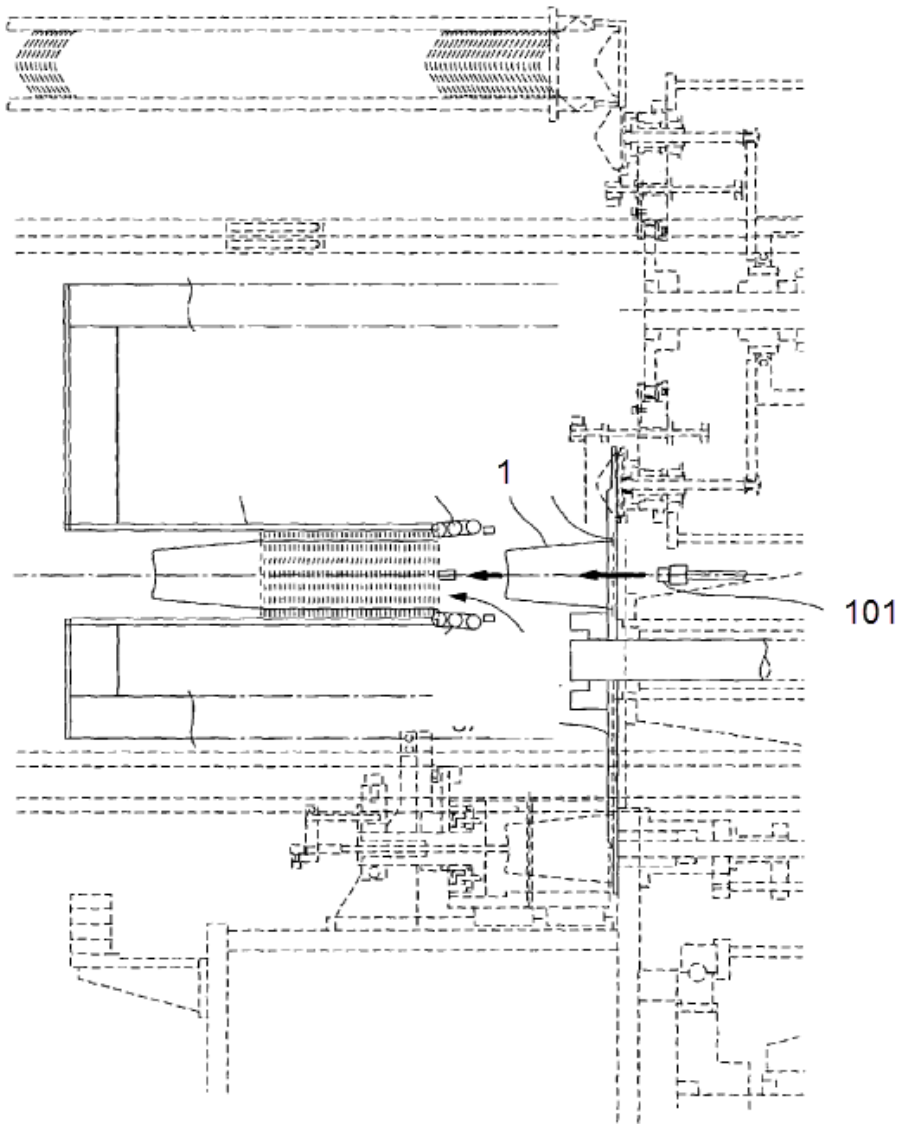
Definition statement

This place covers:

Structures which stack, in any orientation, the blown articles for transporting purposes.

Illustrative example of subject matter classified in this group:

Air nozzle 101 lifts containers 1 into a cylindrical stacker.

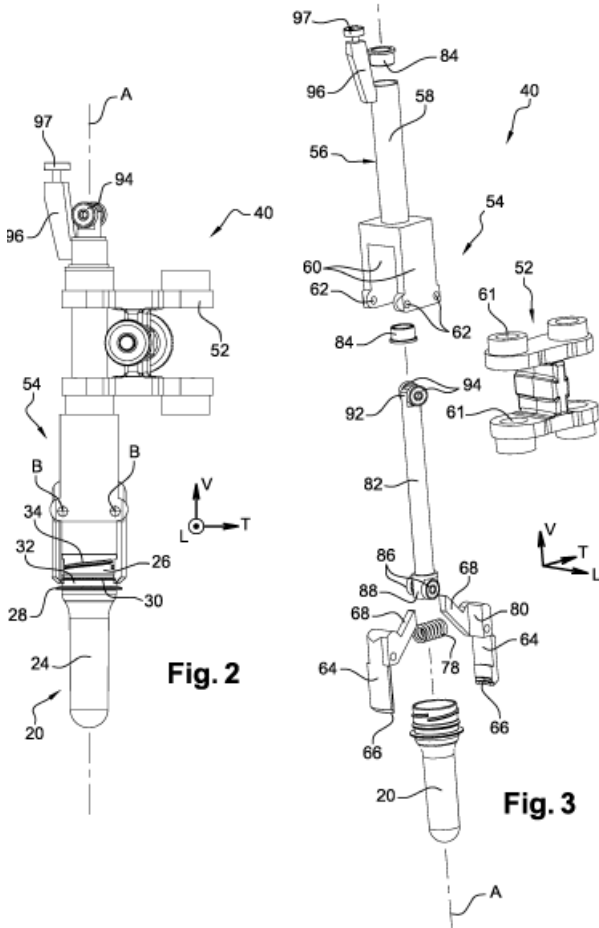


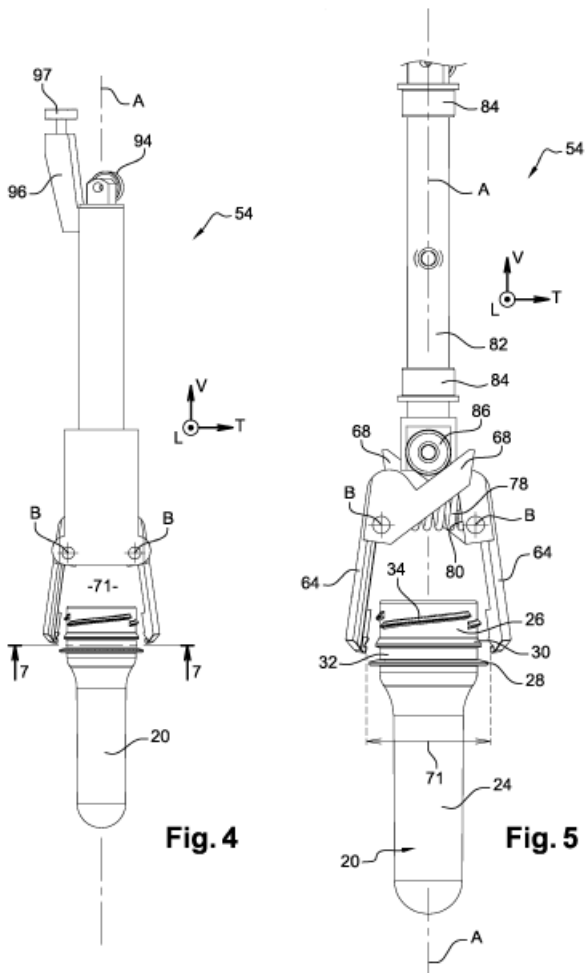
B29C 49/42075

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:





B29C 49/42077

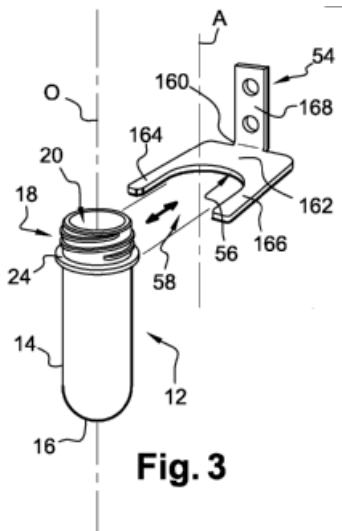
Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424



B29C 49/42079

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

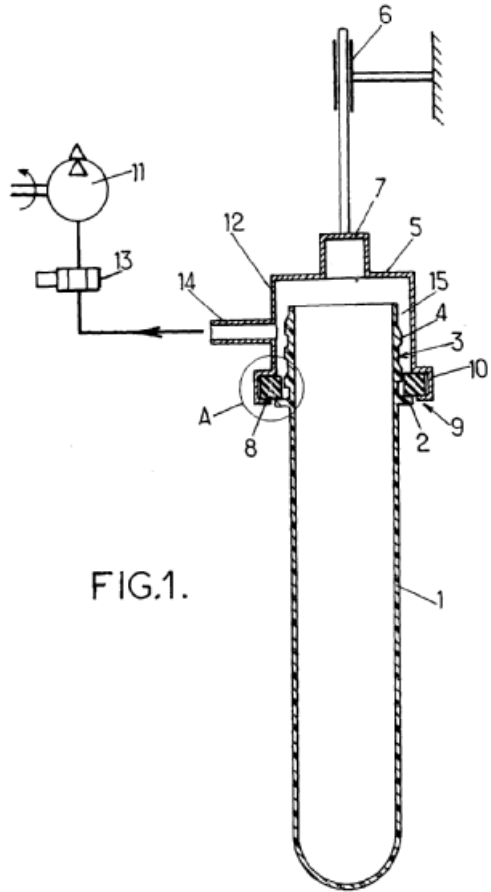


FIG. 1.

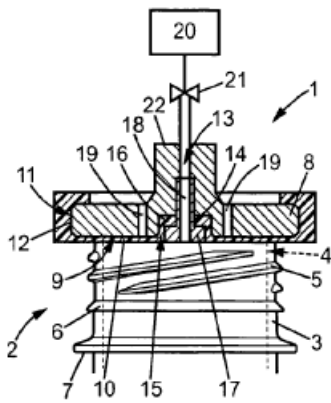


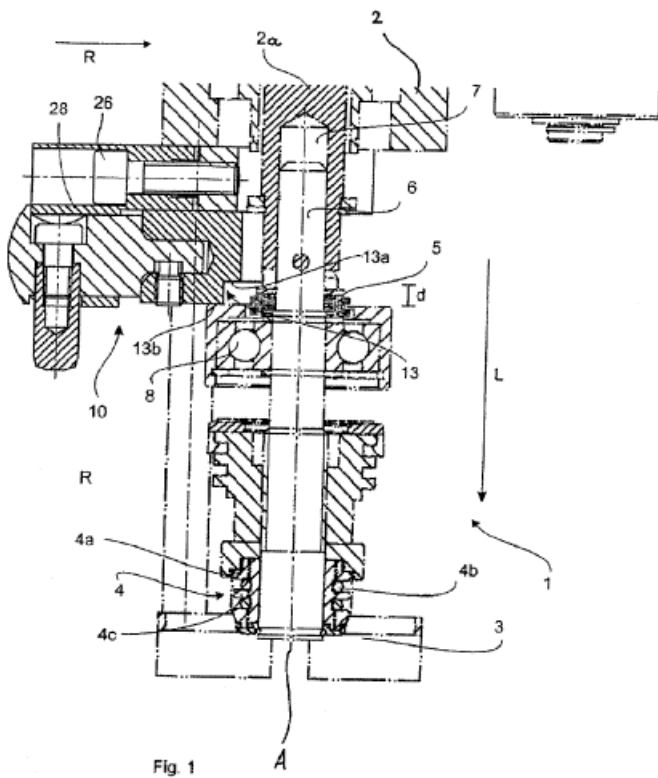
FIG. 1

B29C 49/42081

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

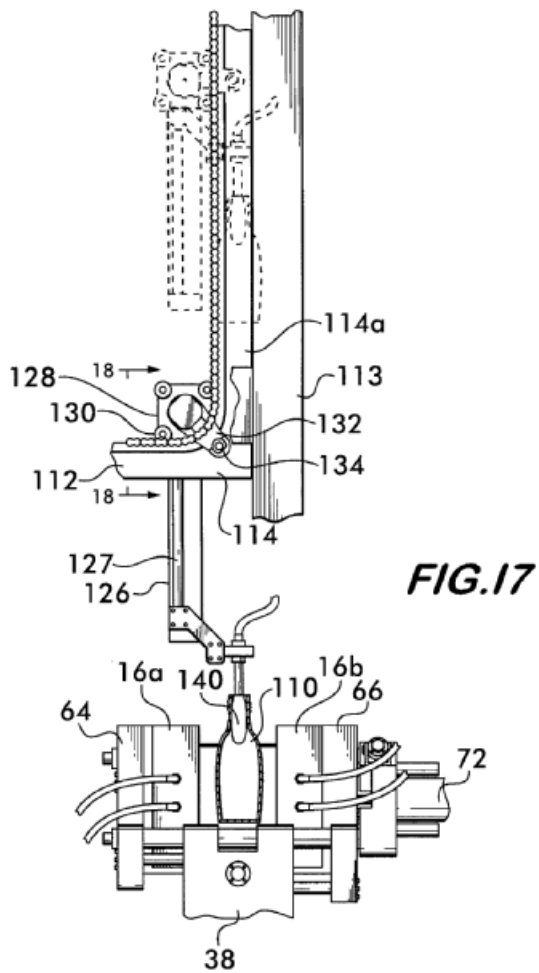


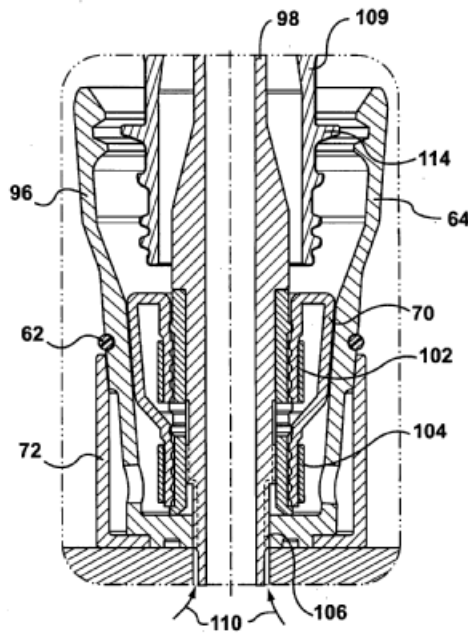
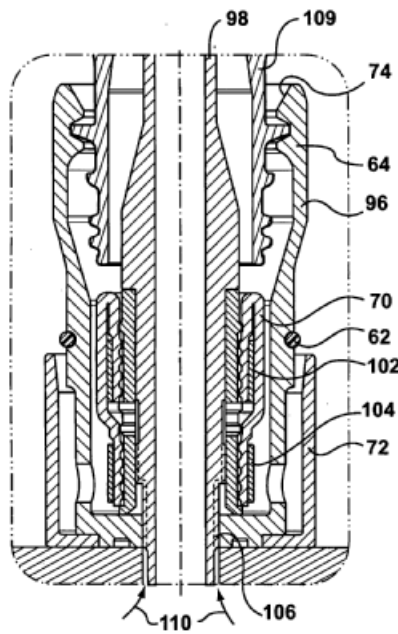
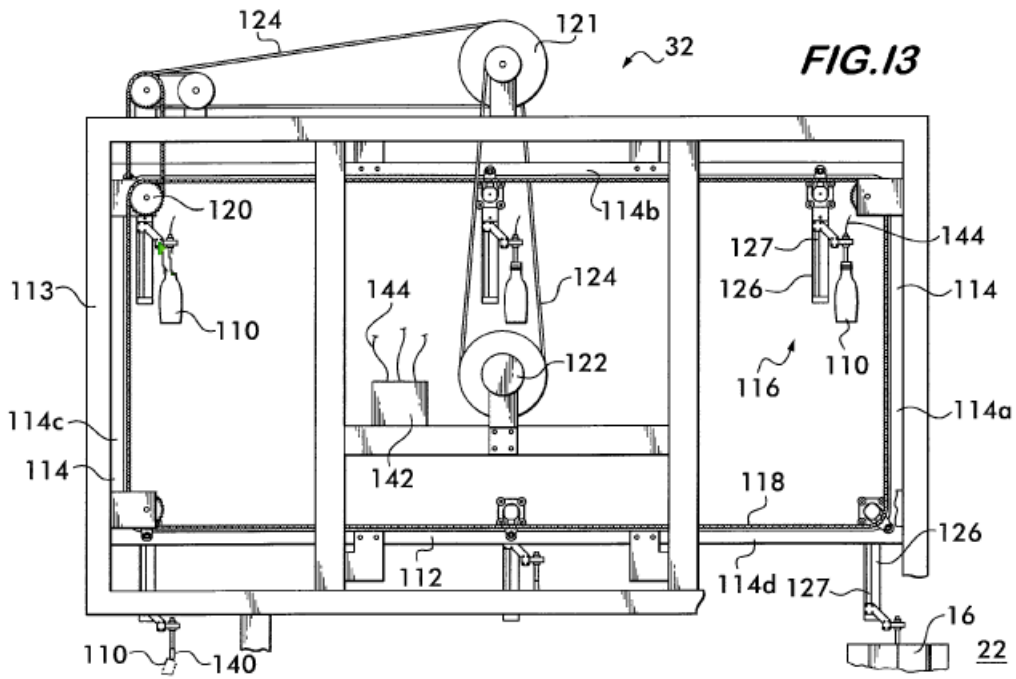
B29C 49/42083

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



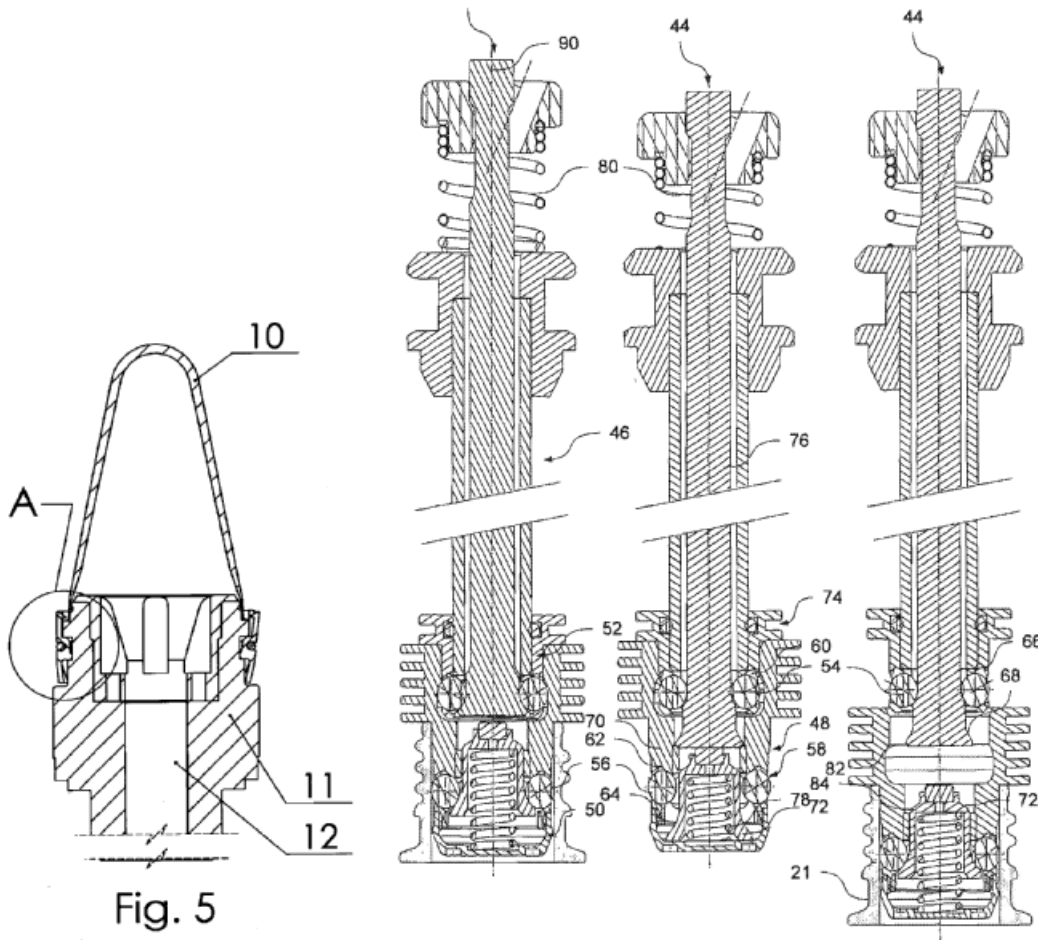


B29C 49/42085

Definition statement

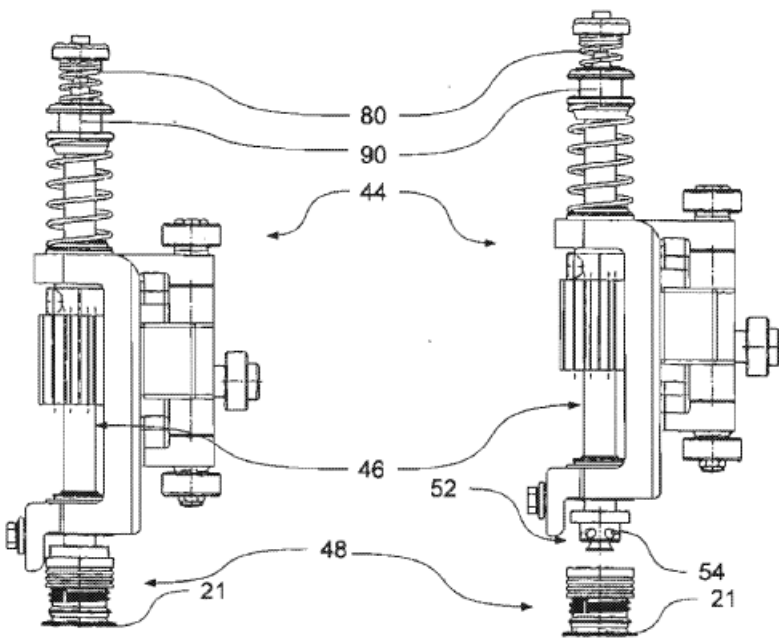
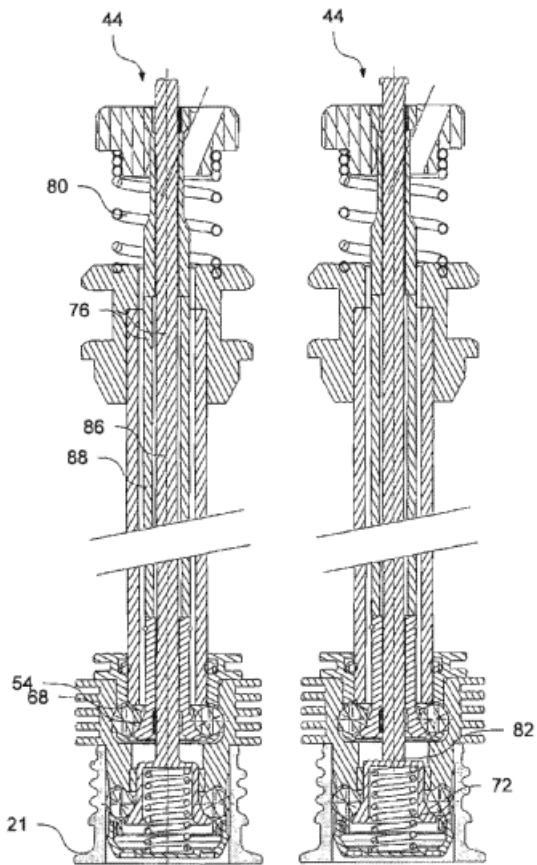
This place covers:

Illustrative example of subject matter classified in this group:



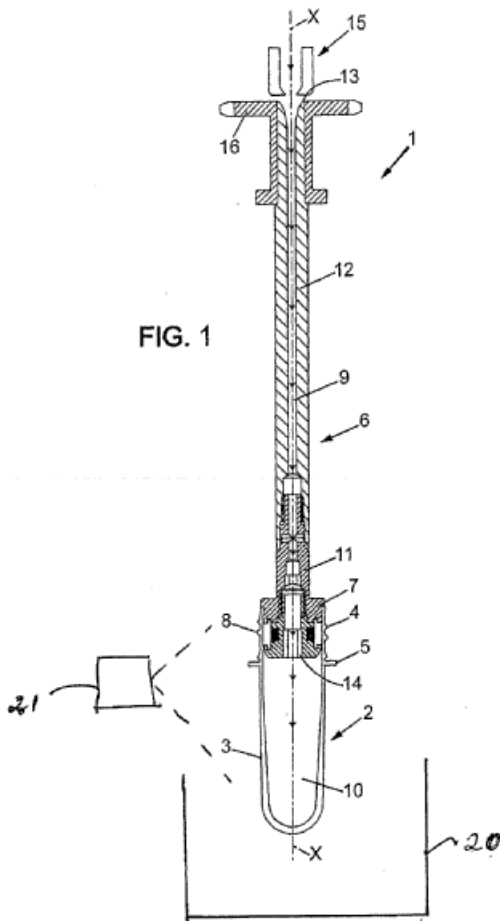
DATE: MAY 1, 2022

PROJECT RP10424



DATE: MAY 1, 2022

PROJECT RP10424

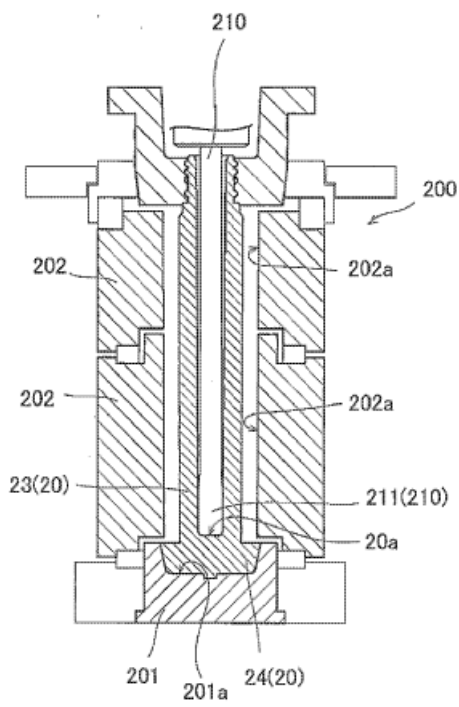
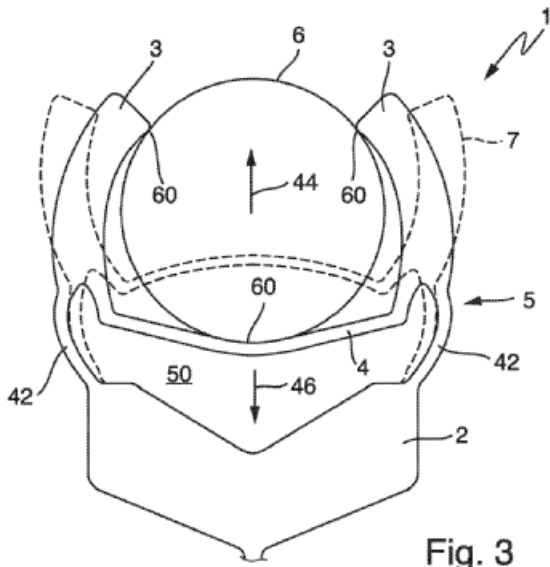


B29C 49/42087

Definition statement

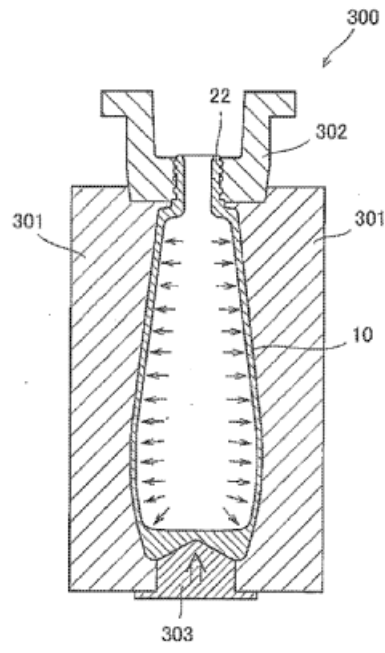
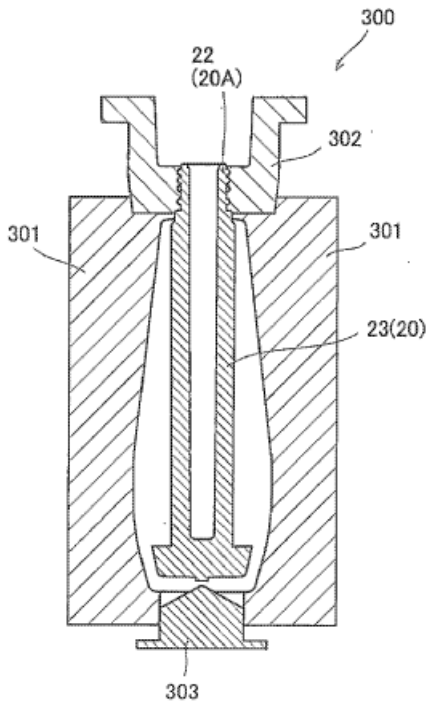
This place covers:

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

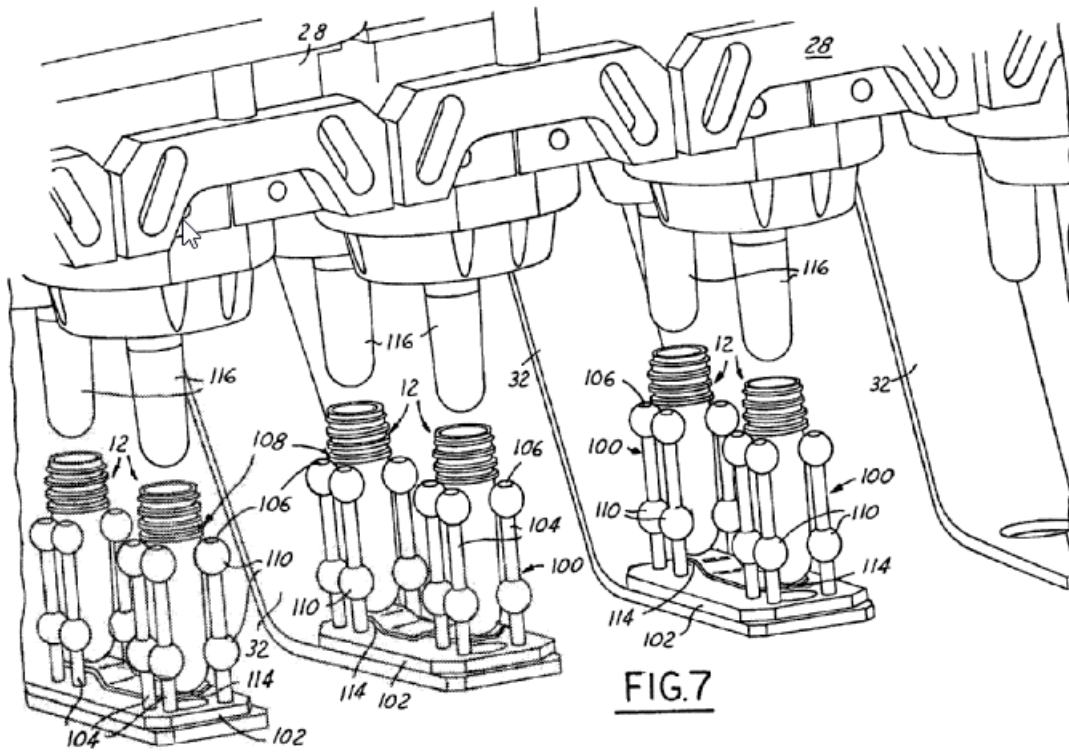


B29C 49/42089

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



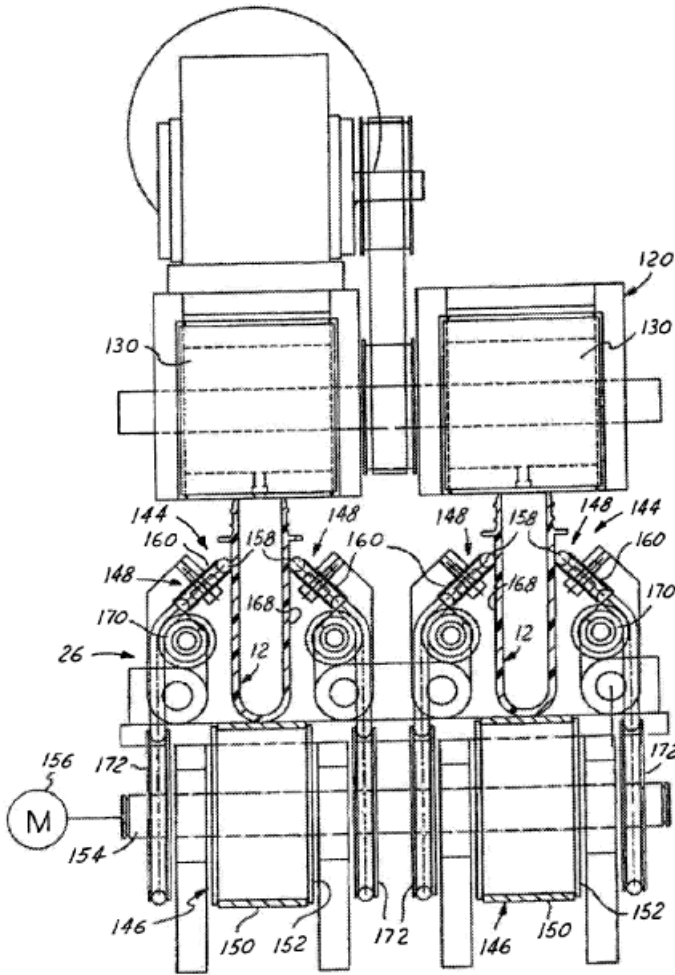


FIG. 9

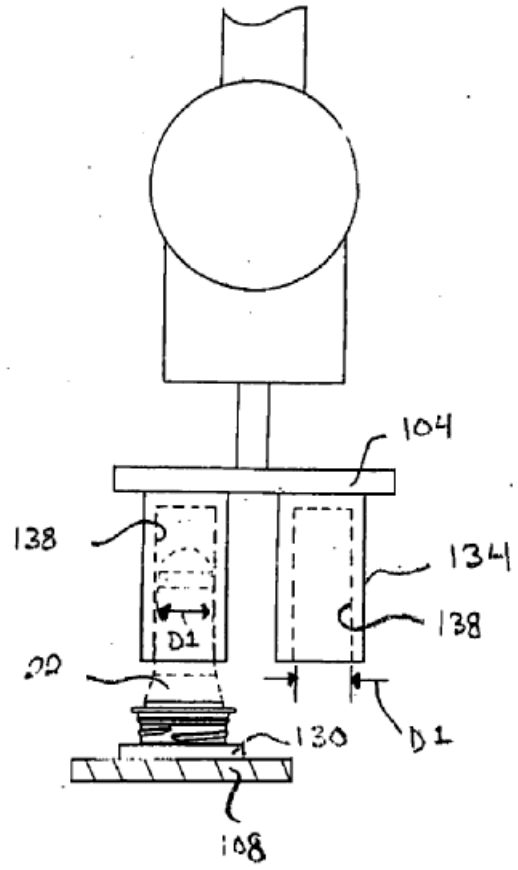


FIG. 4

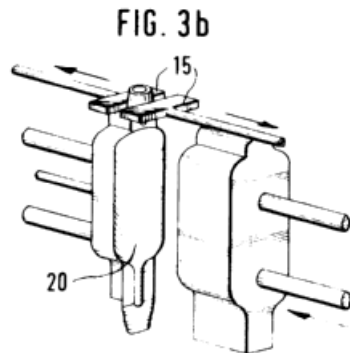
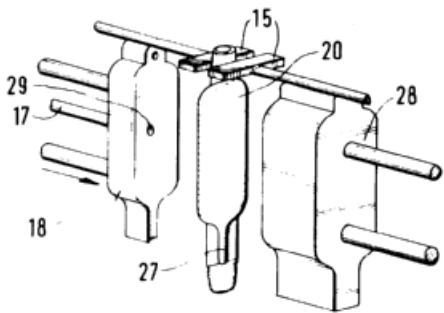


FIG. 3b

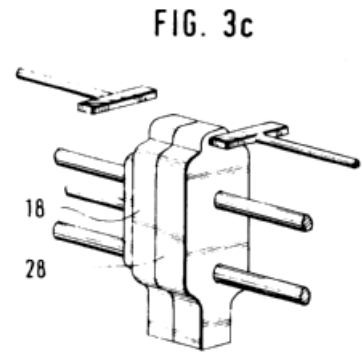
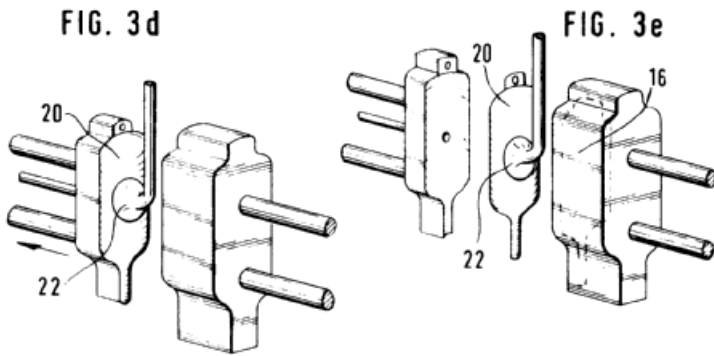


FIG. 3c



B29C 49/42091

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

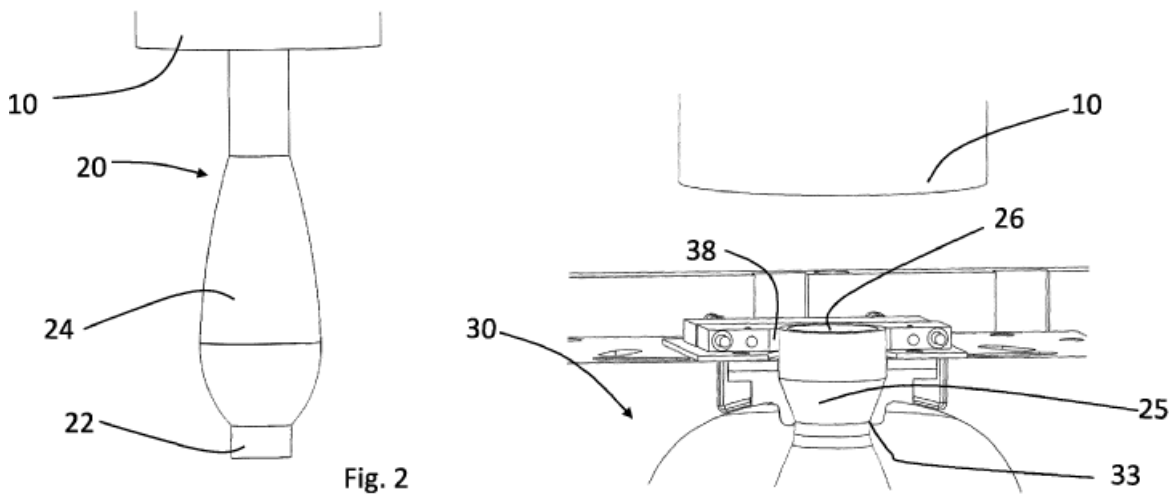


FIG. 5

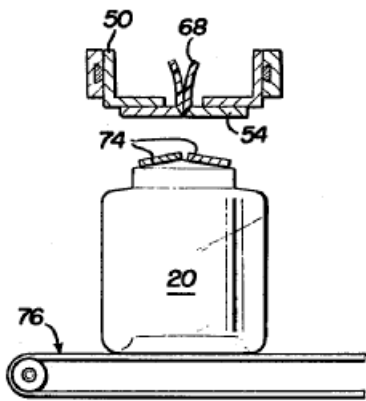


FIG. 4

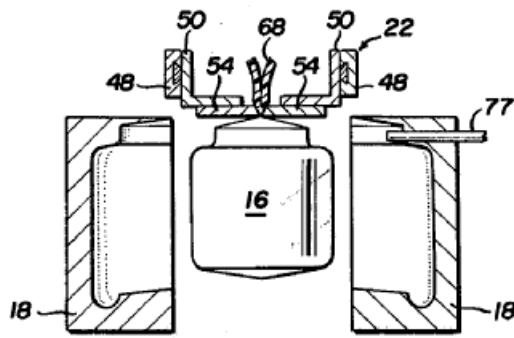


Fig.1

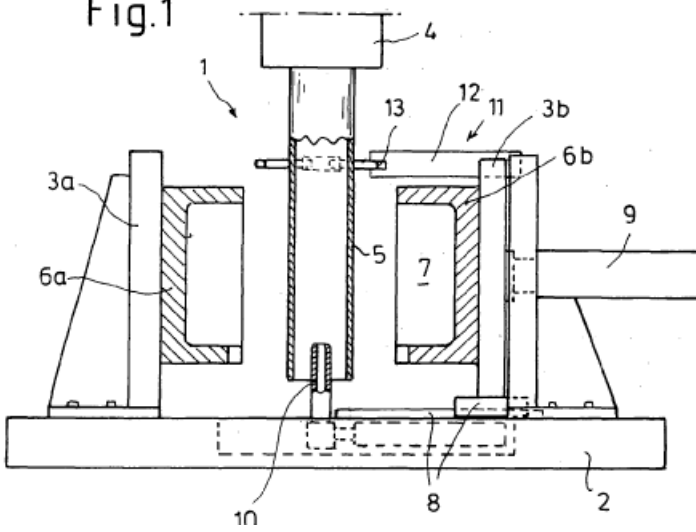
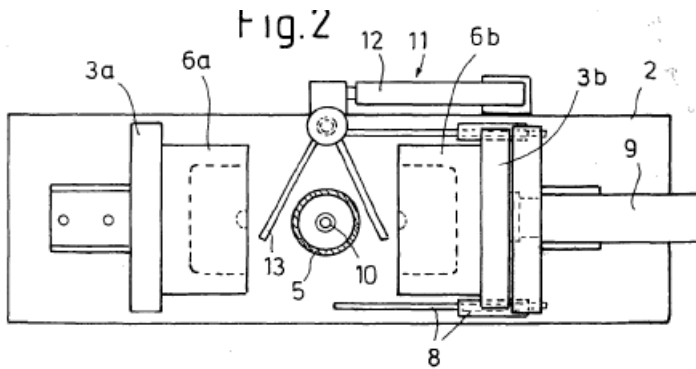
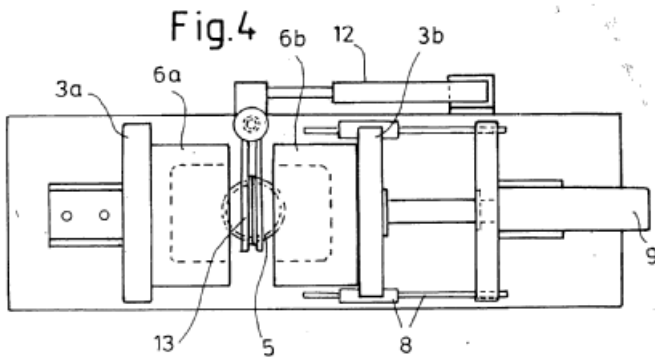
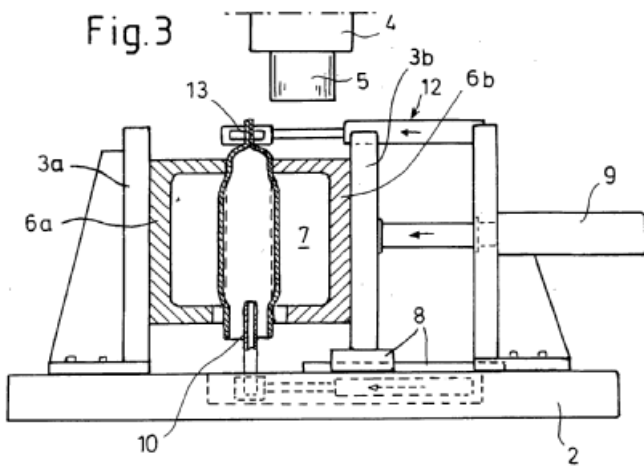


Fig.2



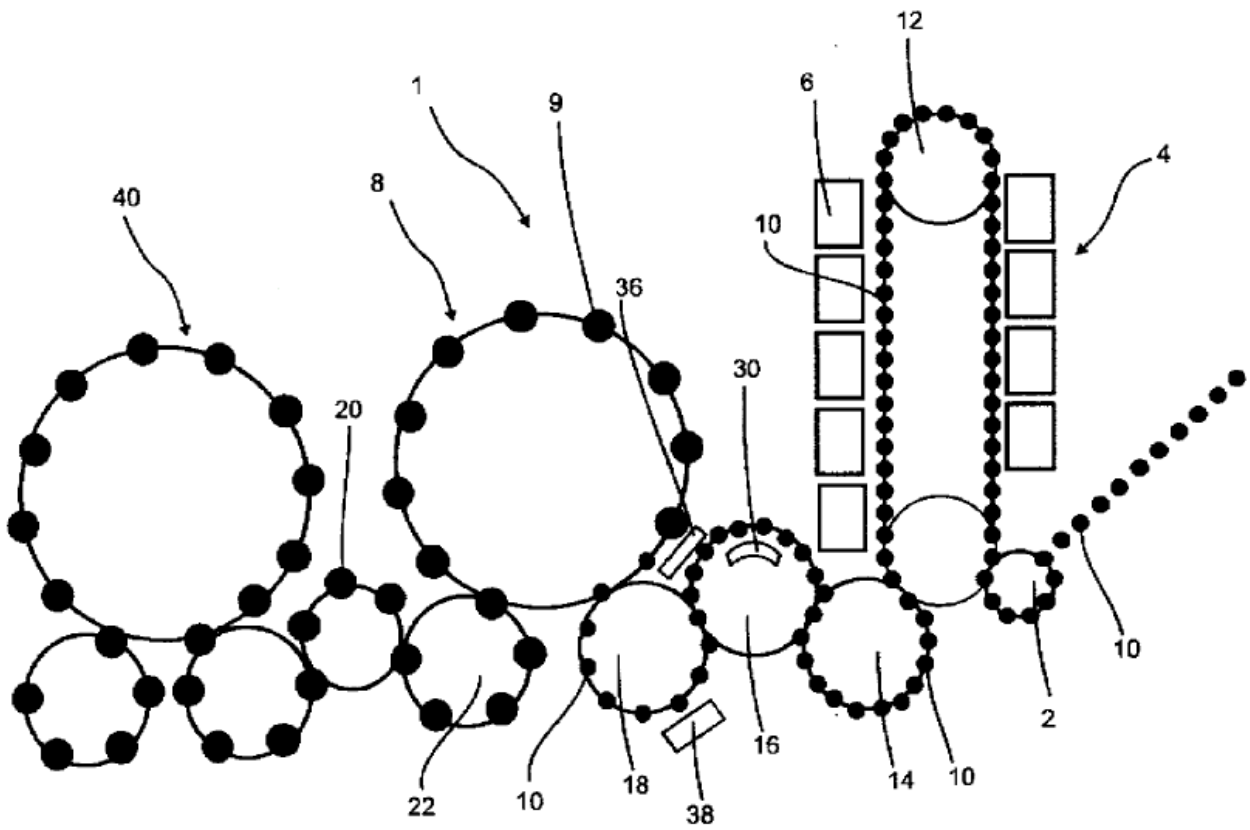
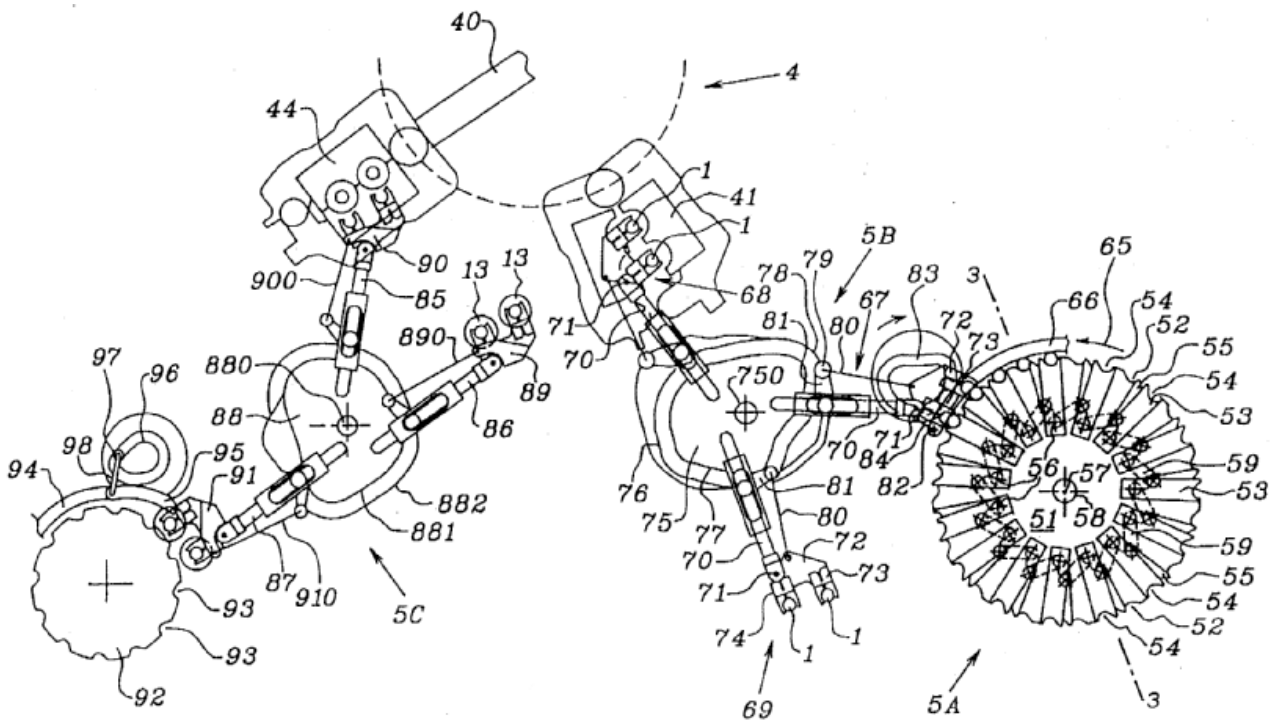


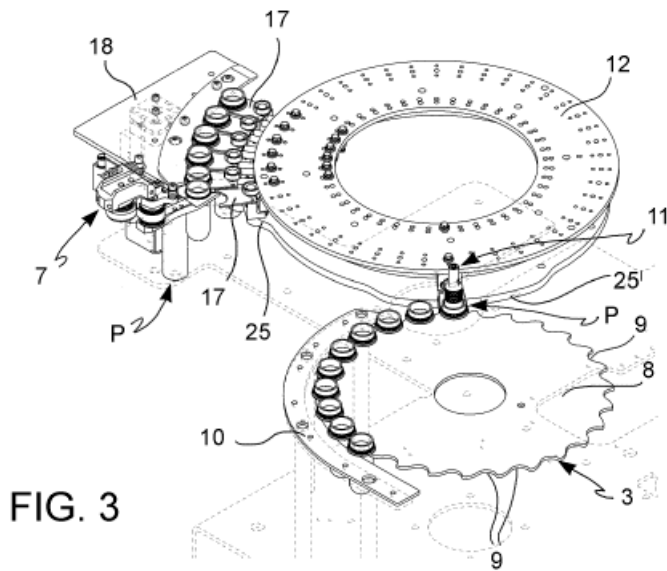
B29C 49/42095

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



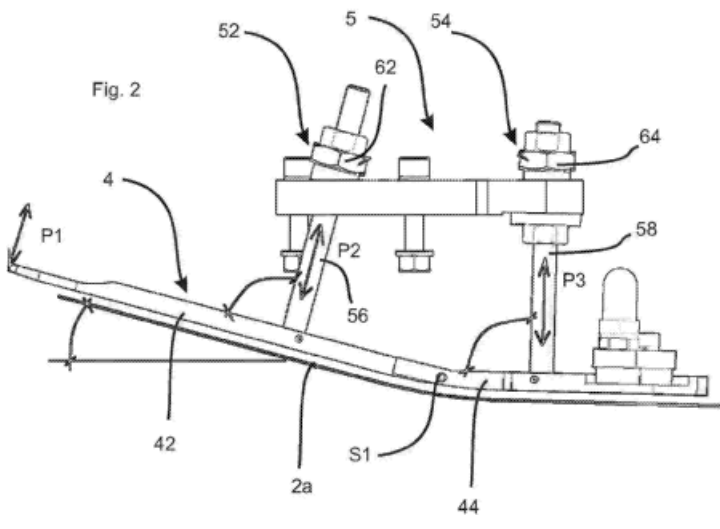
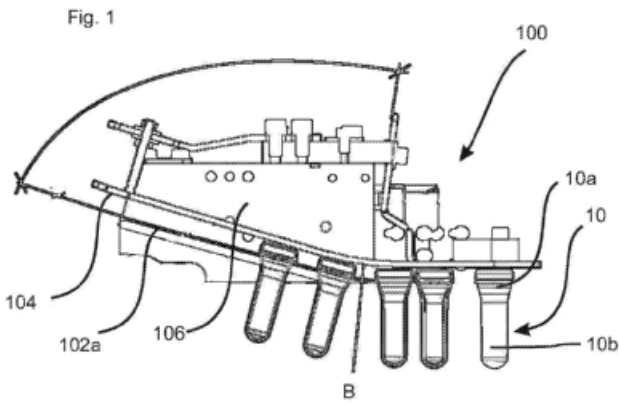


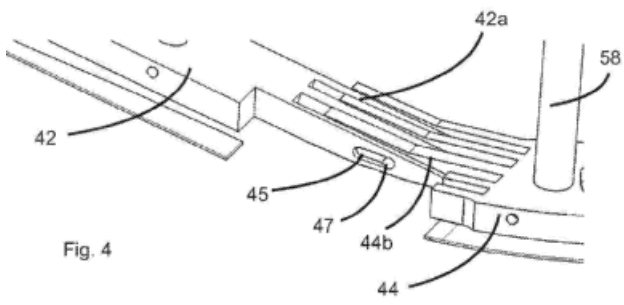
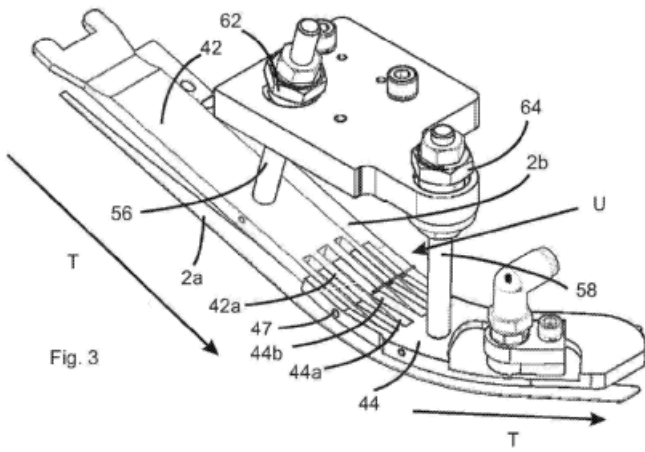
B29C 49/42097

Definition statement

This place covers:

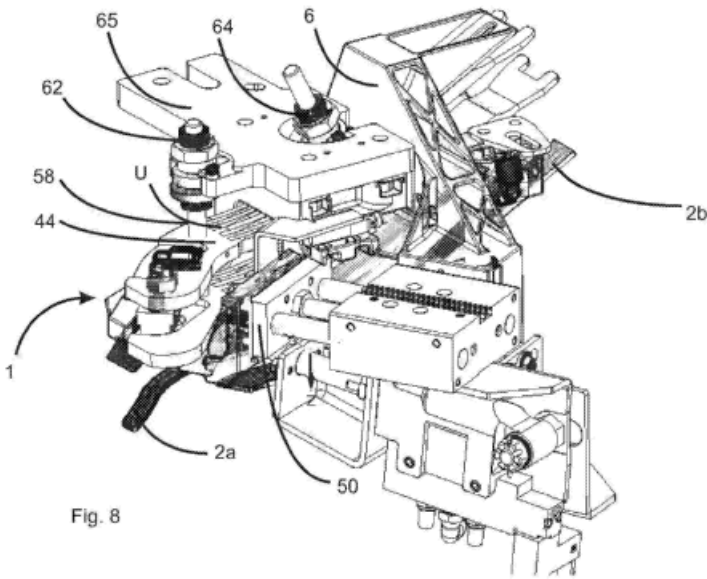
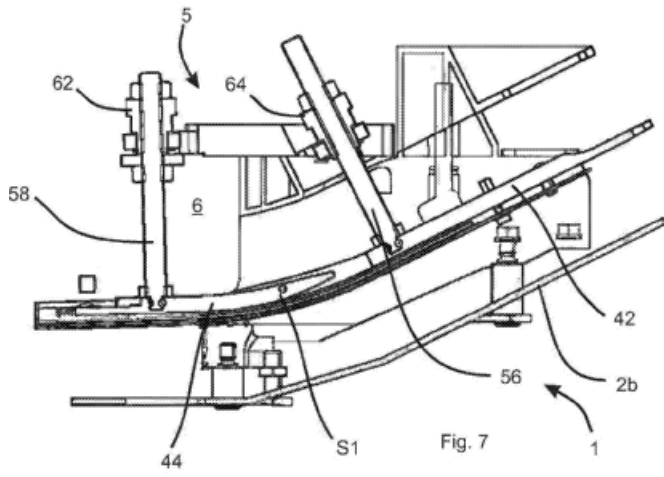
Illustrative example of subject matter classified in this group:

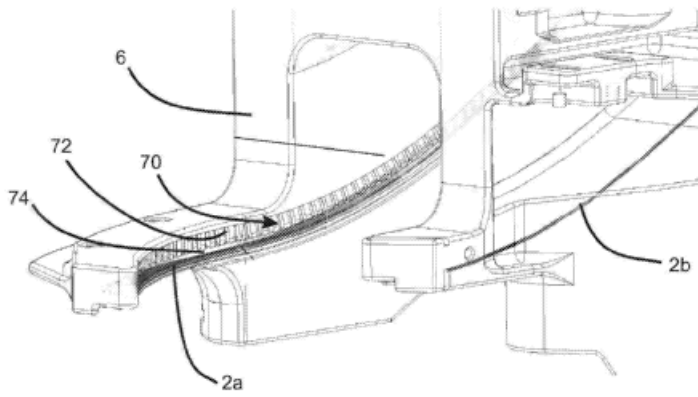
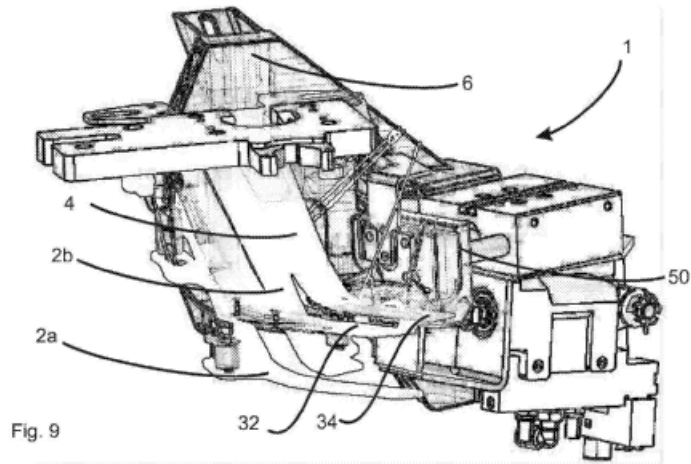


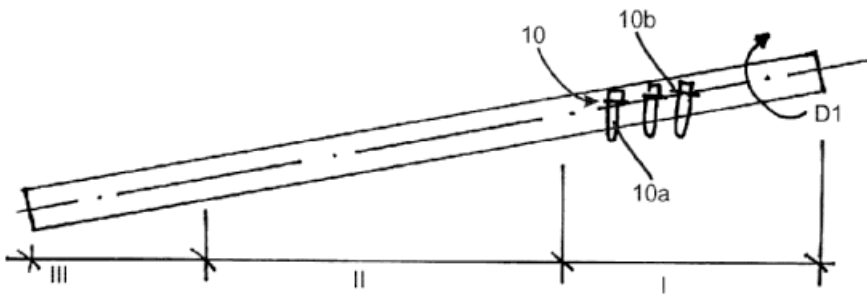
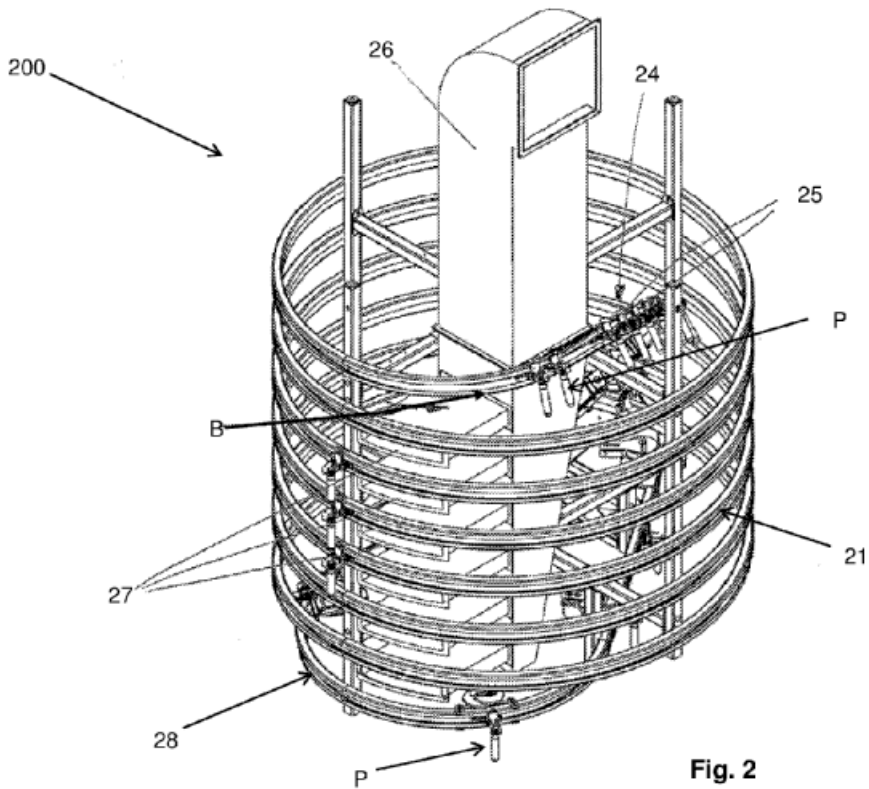


DATE: MAY 1, 2022

PROJECT RP10424







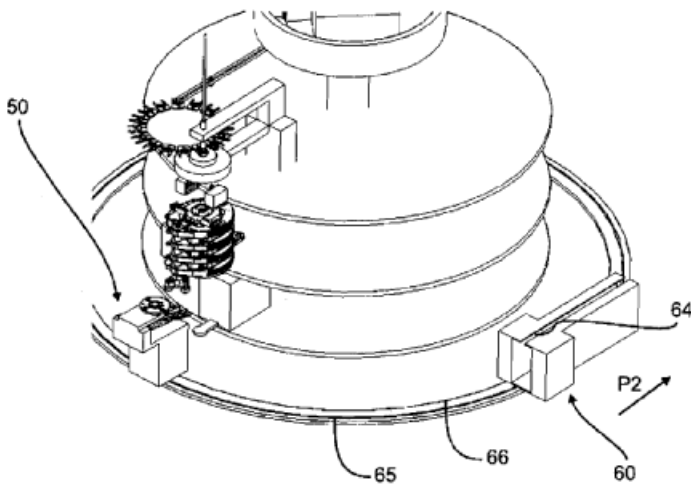
B29C 49/42099

Definition statement

This place covers:

Where the movement along the sliding rail is caused by or aided by air or gas flow.

Illustrative example of subject matter classified in this group:

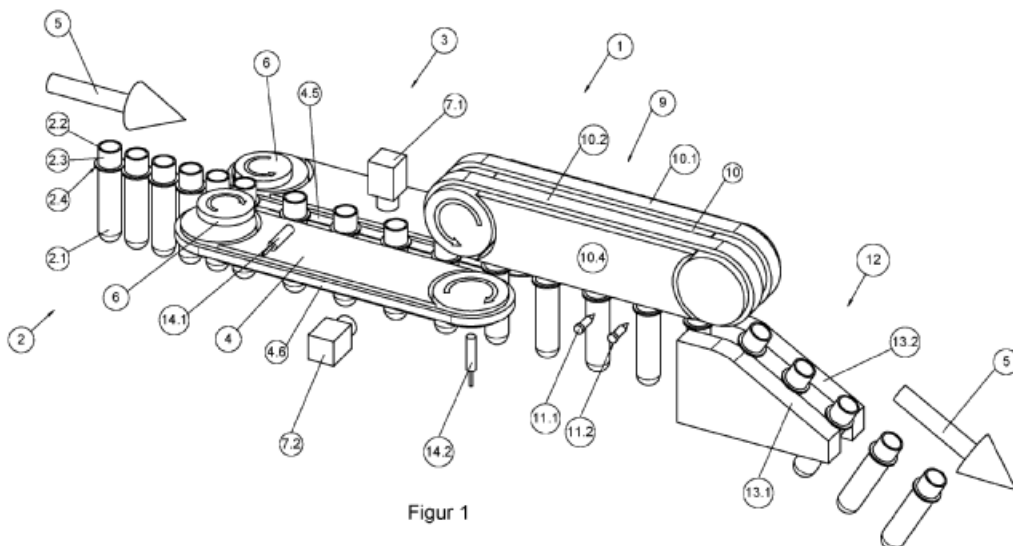


B29C 49/42101

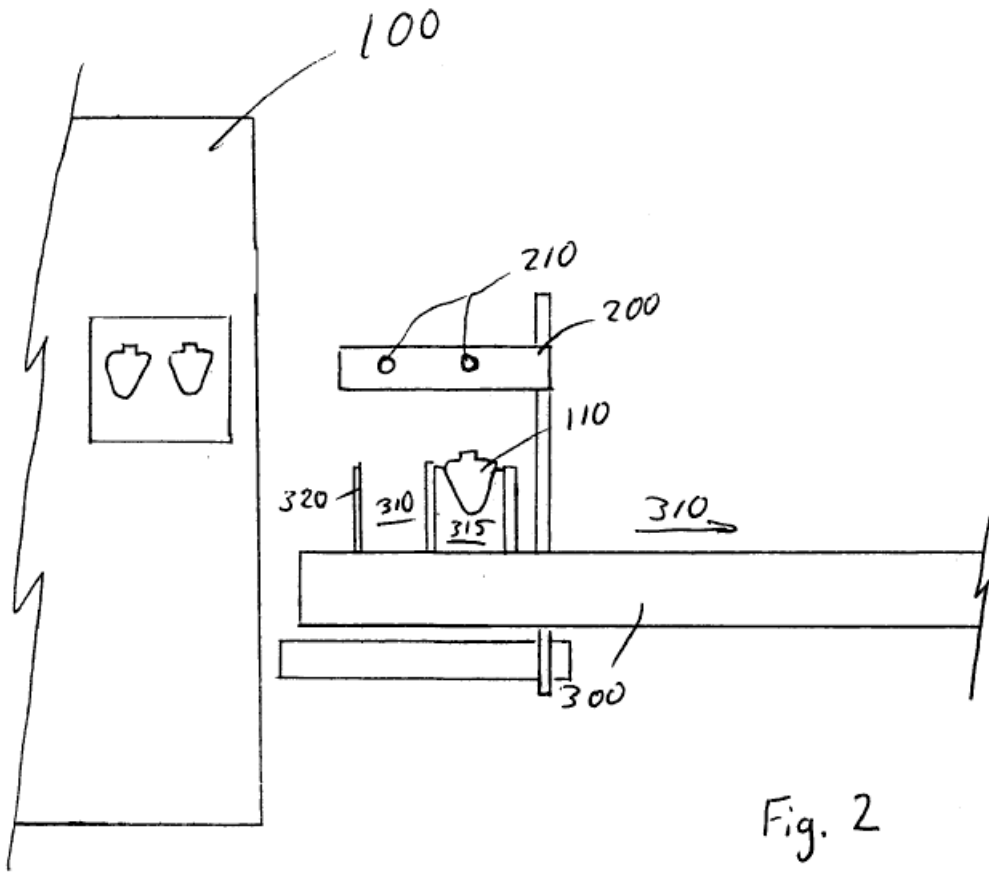
Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



Figur 1



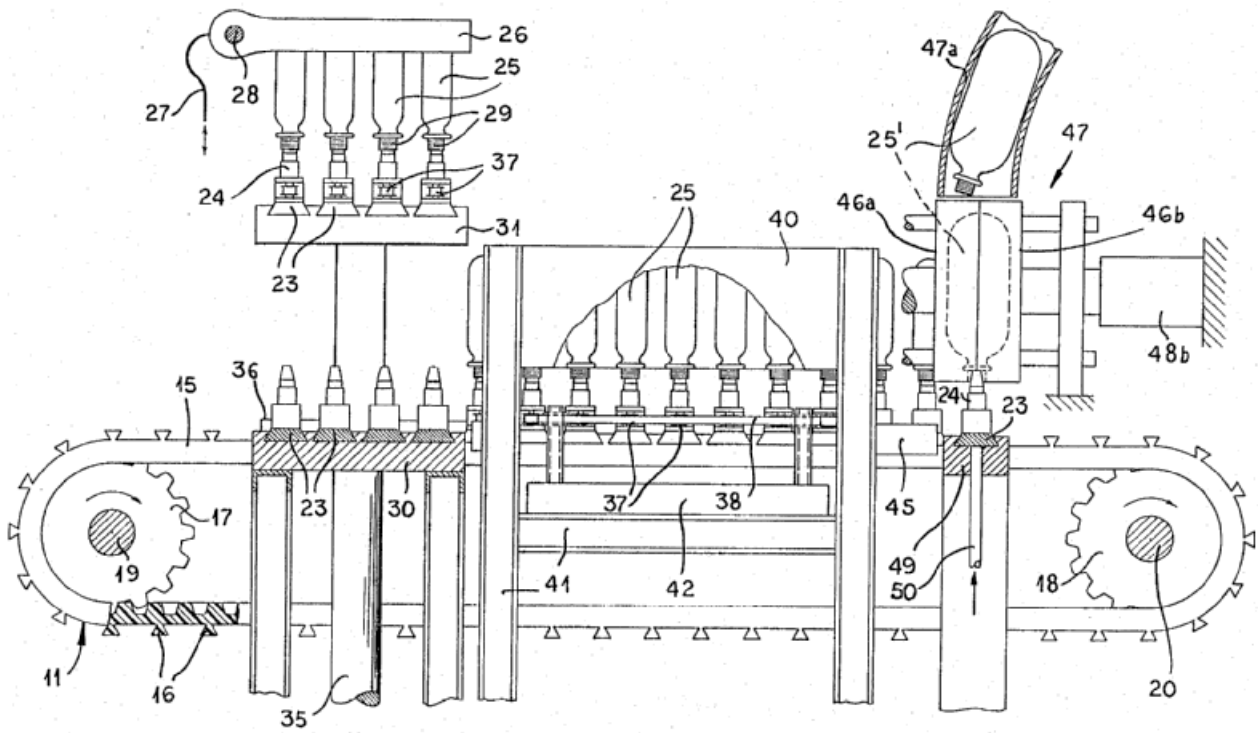
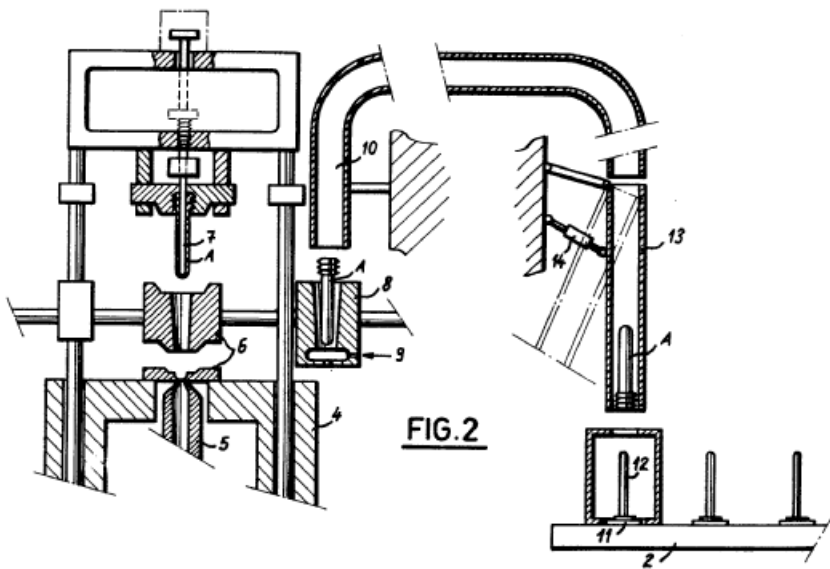
B29C 49/42103

Definition statement

This place covers:

Transportation means that uses vacuum or suction along a tube/pipe/conduit (e.g. a pneumatic tube).

Illustrative example of subject matter classified in this group:



B29C 49/42105

Definition statement

This place covers:

Handling means for movement of a discrete number of preforms or blown articles.

Illustrative example of subject matter classified in this group:

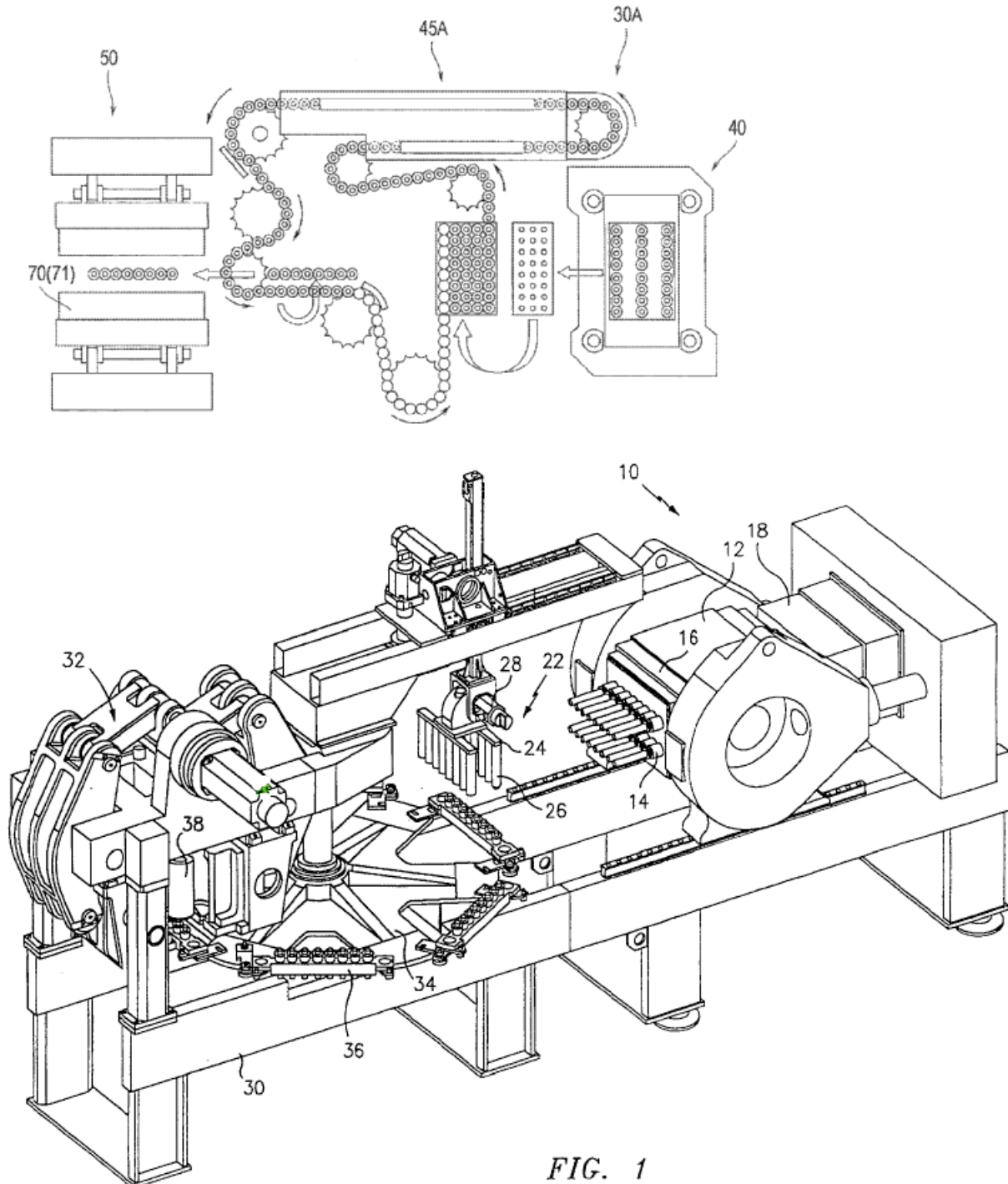
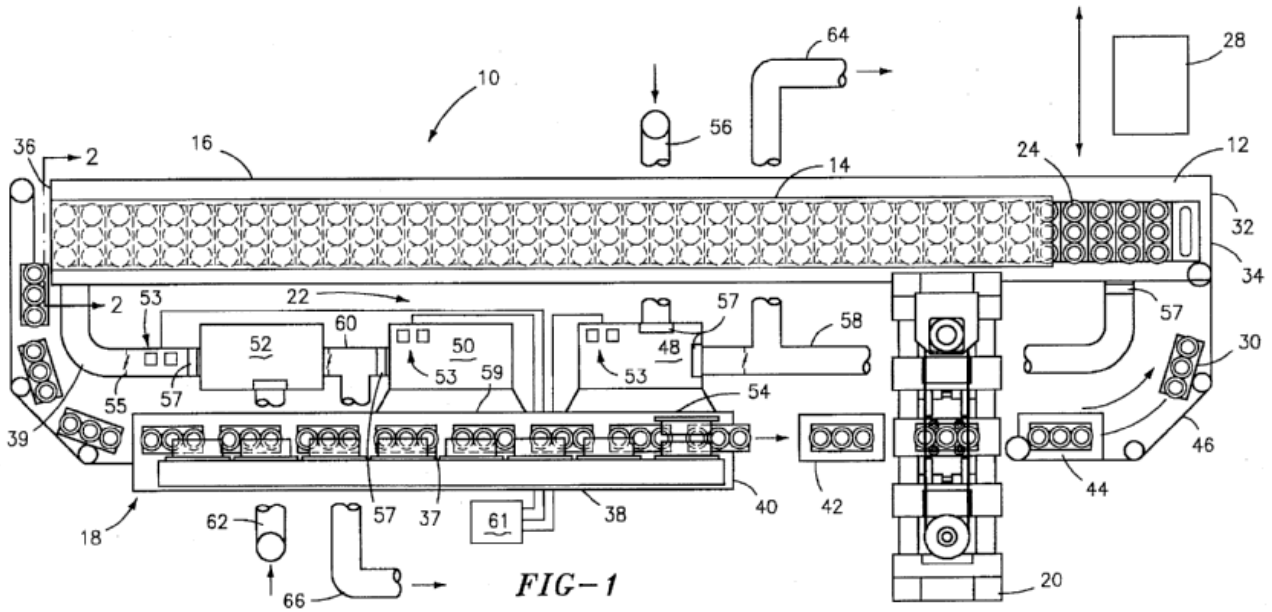


FIG. 1

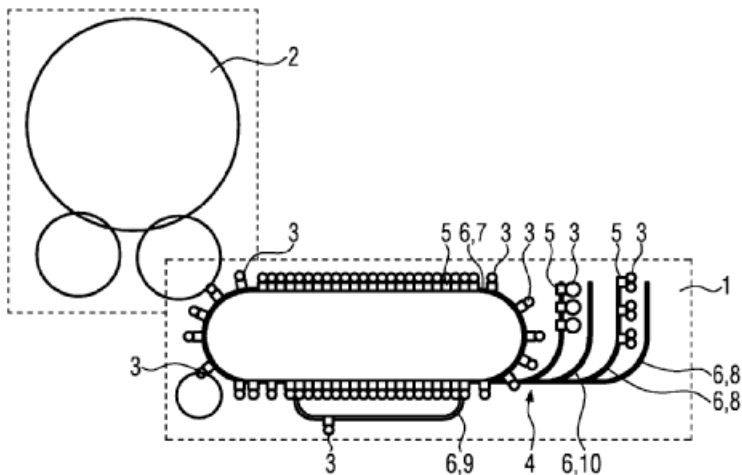


B29C 49/42107

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

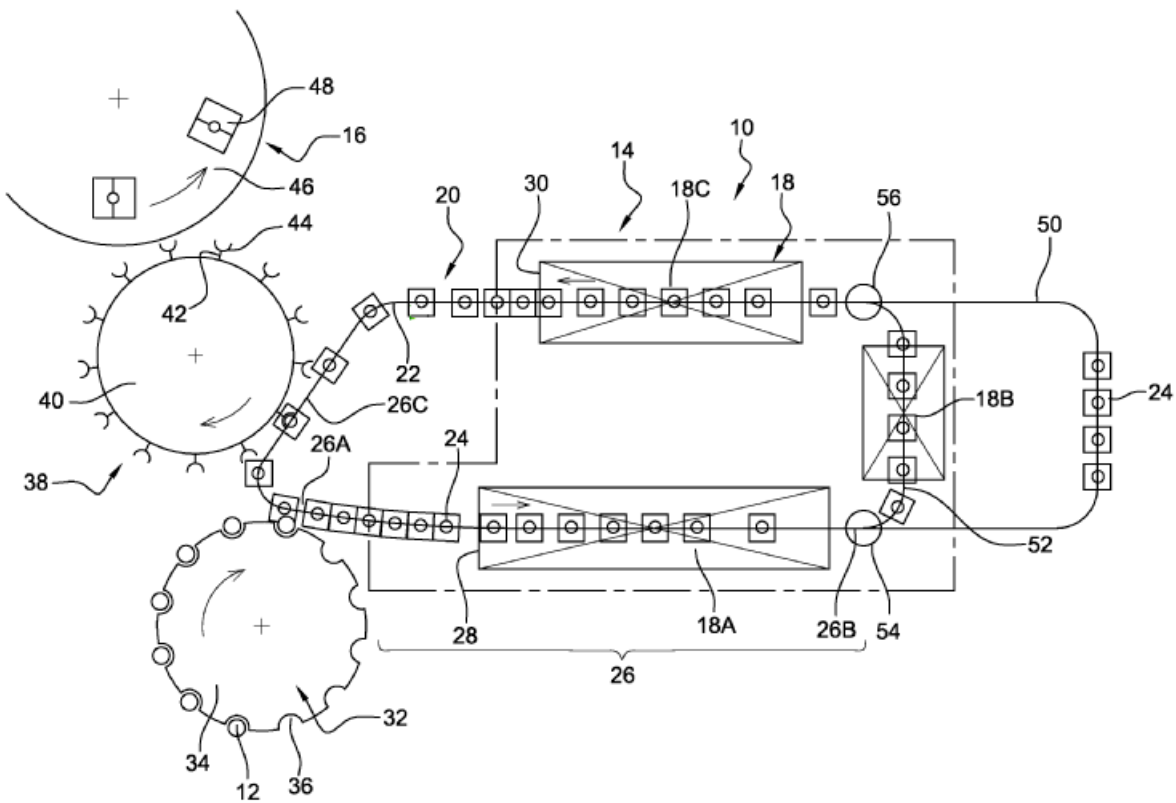


B29C 49/42111

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



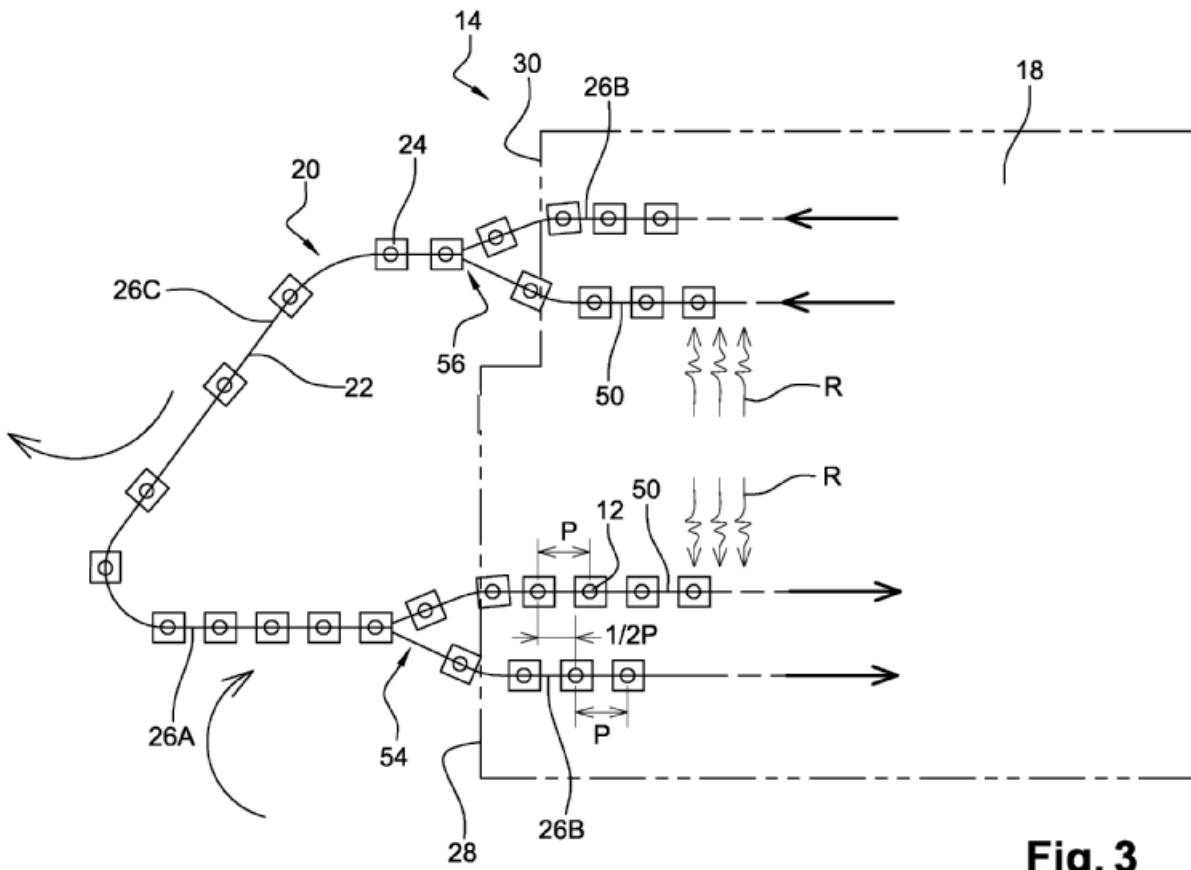
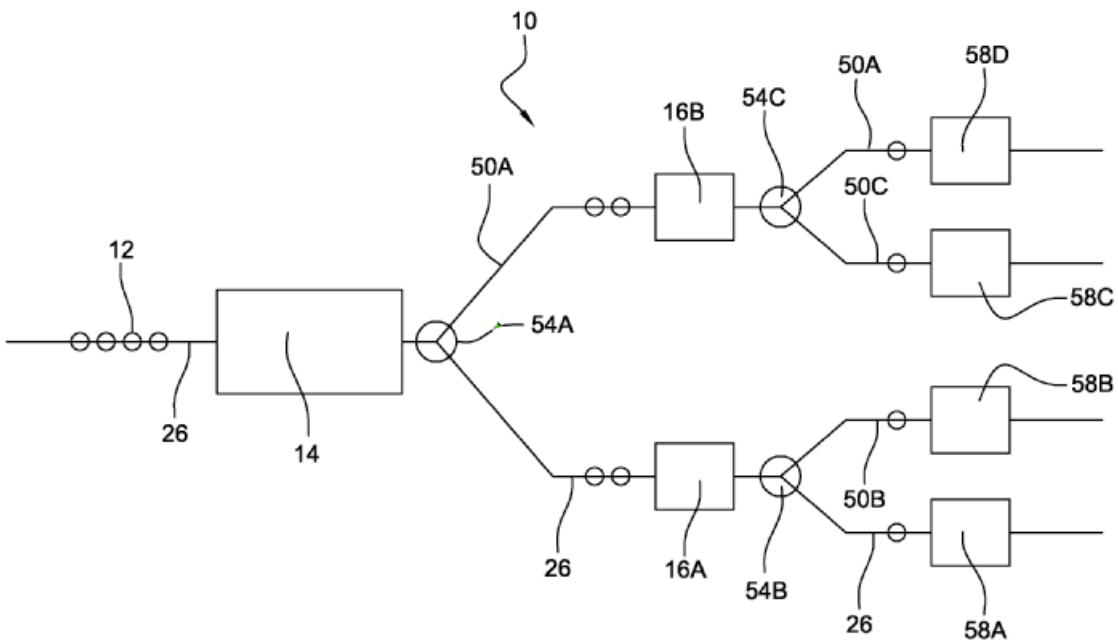


Fig. 3



B29C 49/42115

Definition statement

This place covers:

Handling means which invert the preform or article so that the top faces down or the bottom faces up.

Illustrative example of subject matter classified in this group:

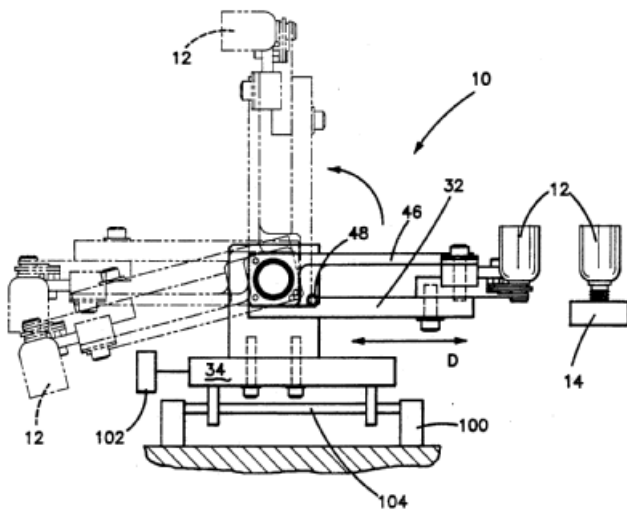
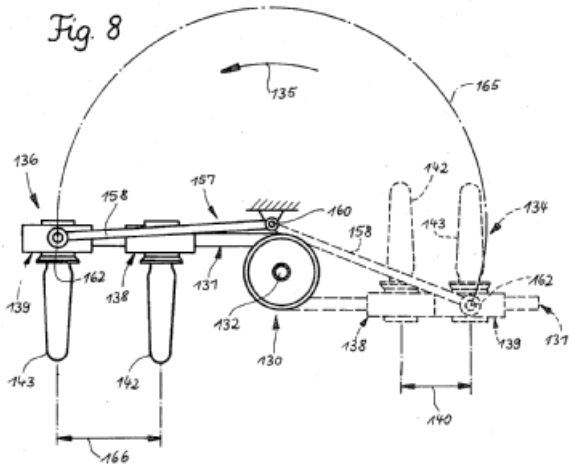
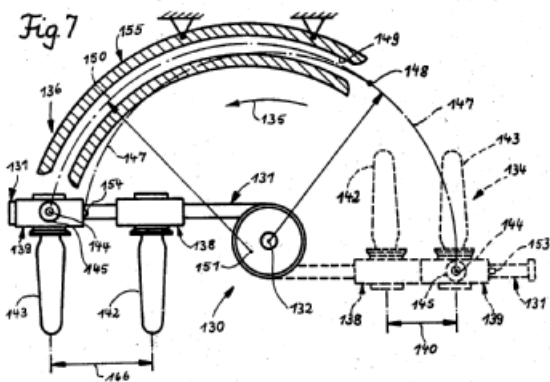


FIG-5

DATE: MAY 1, 2022

PROJECT RP10424

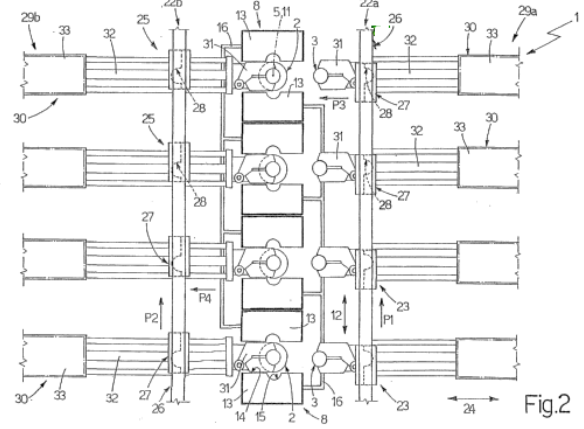
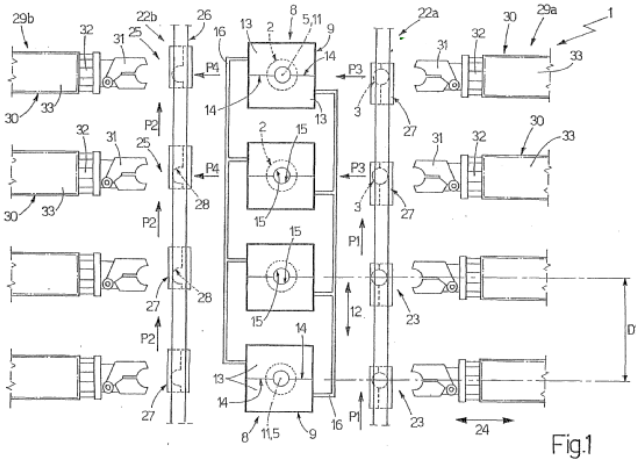
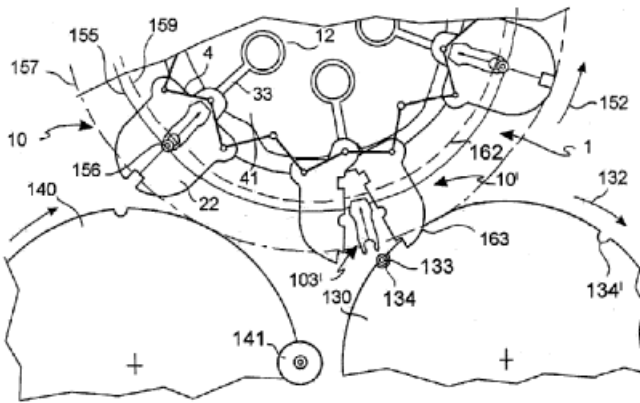
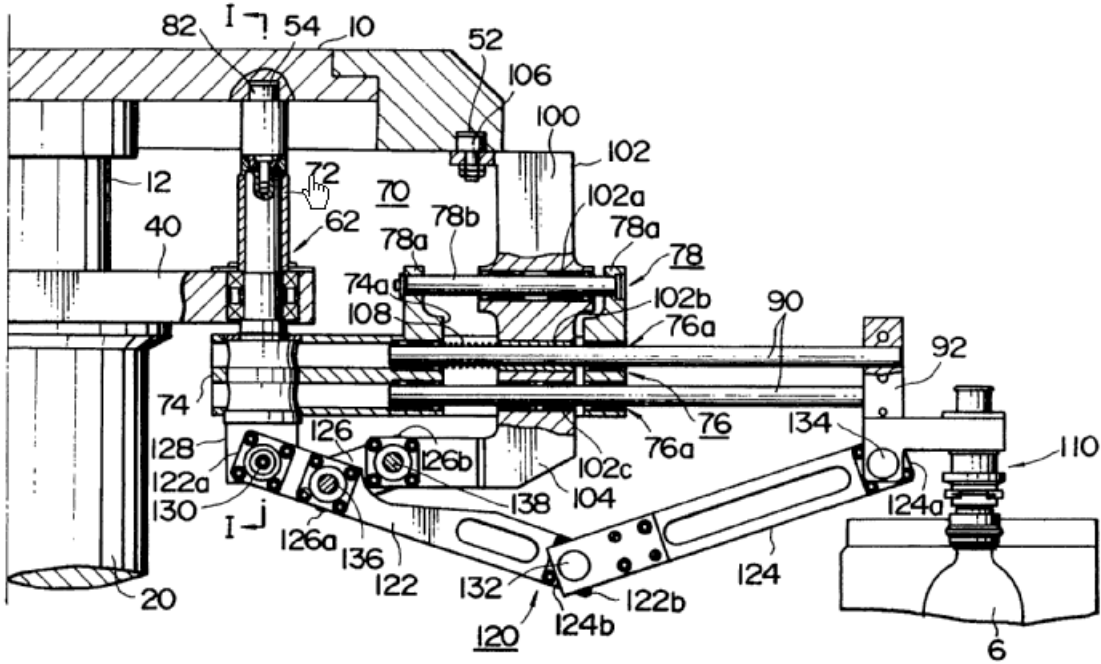


FIG. 3



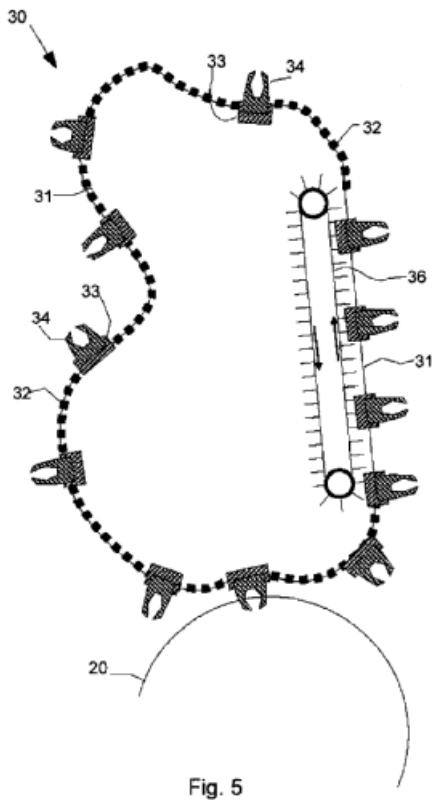
B29C 49/42121

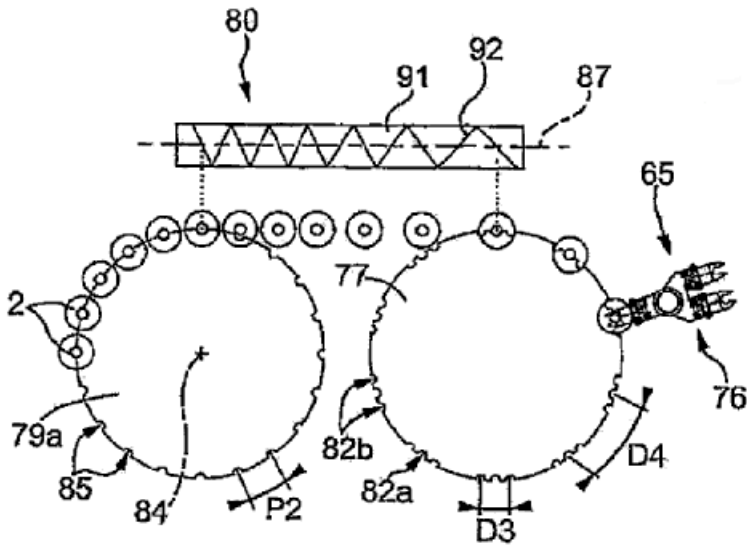
Definition statement

This place covers:

Handling means that alters the spacing between preforms or blown articles during transportation.

Illustrative example of subject matter classified in this group:





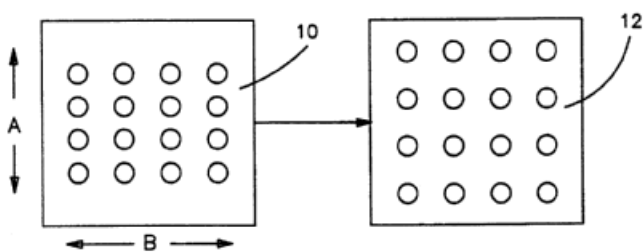
B29C 49/42122

Definition statement

This place covers:

Where mould cavity spacing is different than the spacing of the preforms during transportation to the mould.

Illustrative example of subject matter classified in this group:



B29C 49/42155

Definition statement

This place covers:

Handling means which maintains a constant spacing between preforms or blown articles during transportation.

Illustrative example of subject matter classified in this group:

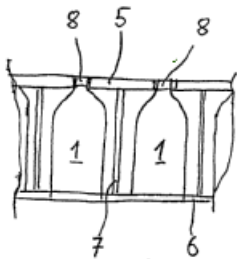


Fig. 3

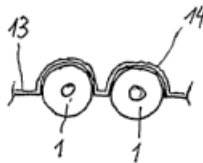


Fig. 5

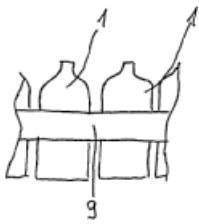


Fig. 4.1

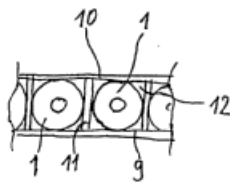


Fig. 4.2

B29C 49/42362

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

Where the drive mechanism relies on electrical signals in order to provide movement (i.e. servomotor, linear actuator, etc.).

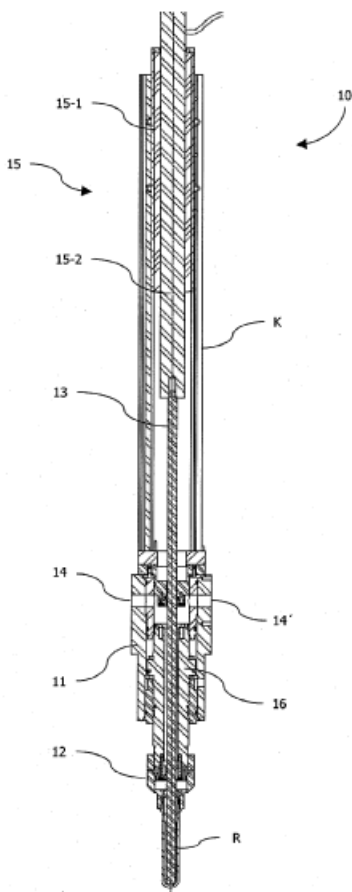


Fig.1

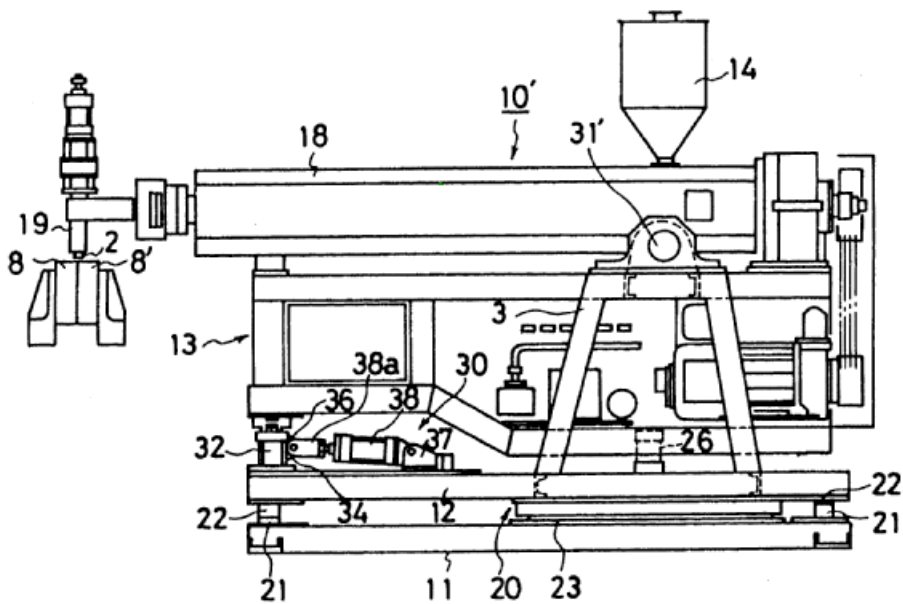
B29C 49/42374

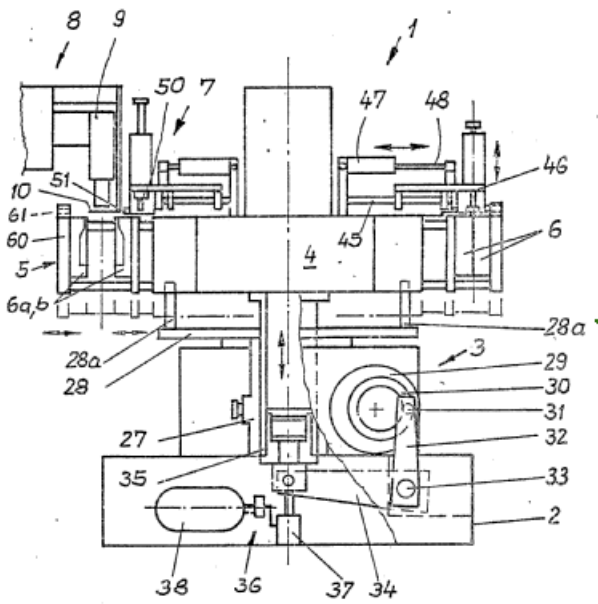
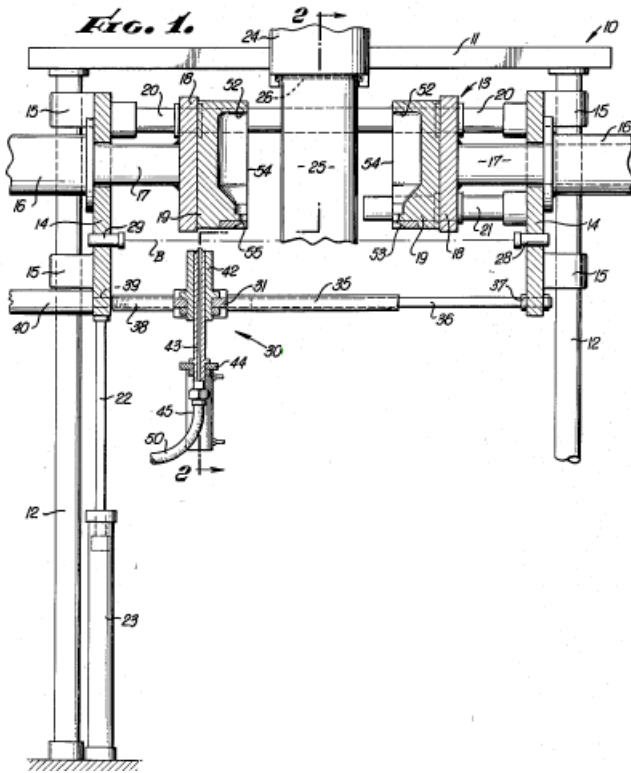
Definition statement

This place covers:

Apparatuses that alter the position of an extruder.

Illustrative example of subject matter classified in this group:





DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/42384

Definition statement

This place covers:

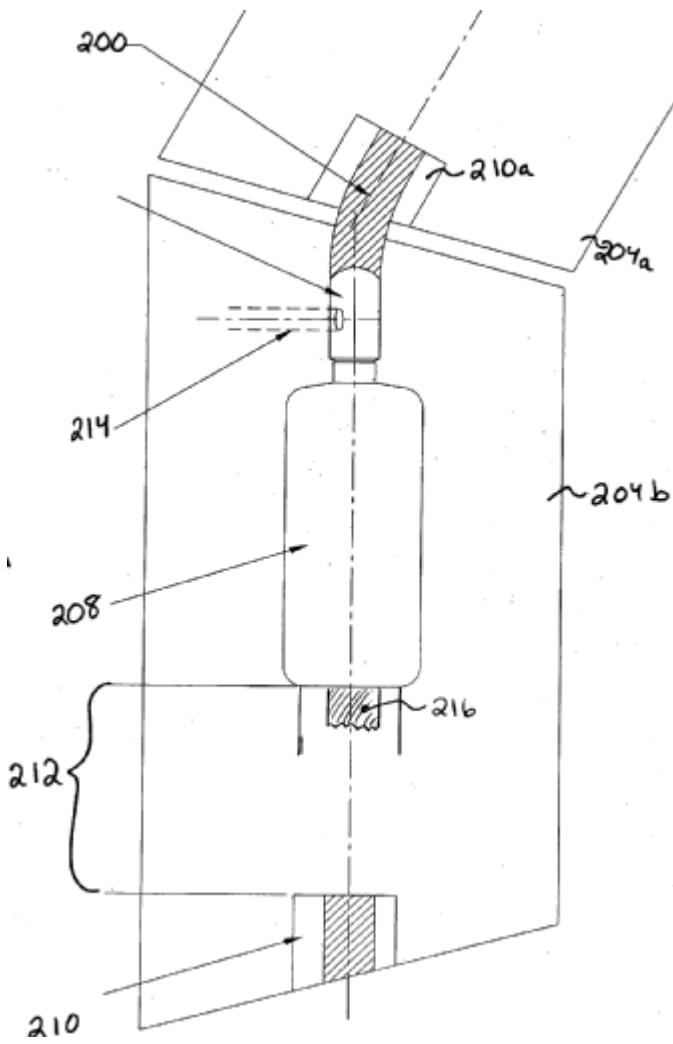
Safety devices preventing injuries while operating a blow-moulding apparatus.

B29C 49/42386

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

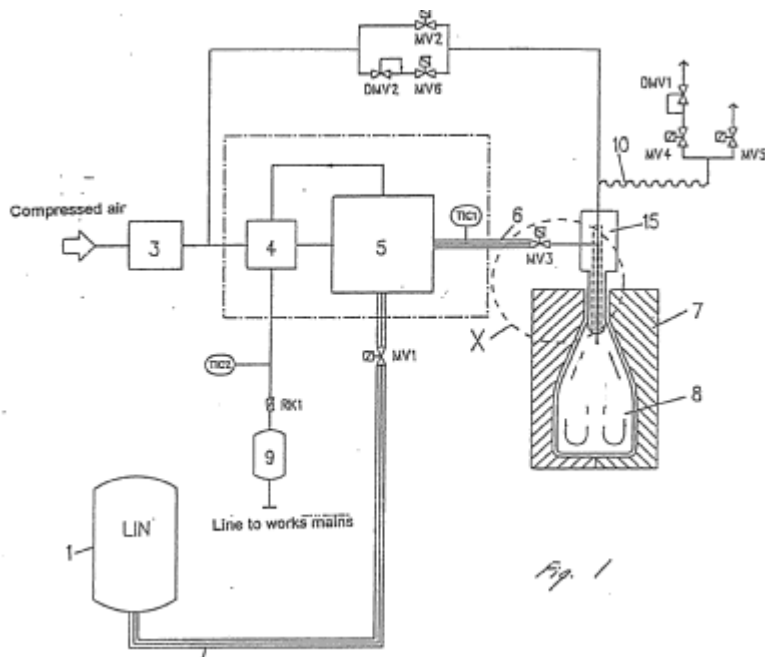
PROJECT RP10424

B29C 49/4239**Definition statement**

This place covers:

Methods and apparatuses that prevent or lessen the occurrence of condensation during blow-moulding.

Illustrative example of subject matter classified in this group:

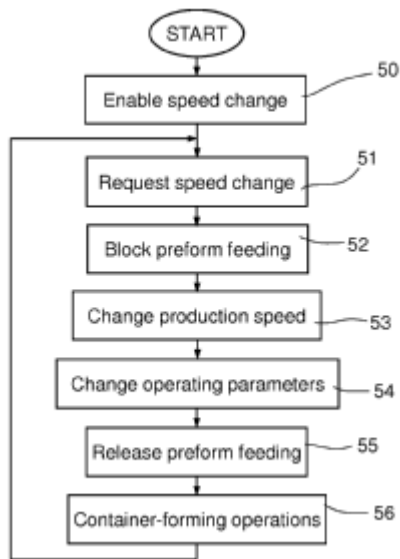


B29C 49/42407

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B29C 49/42409

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

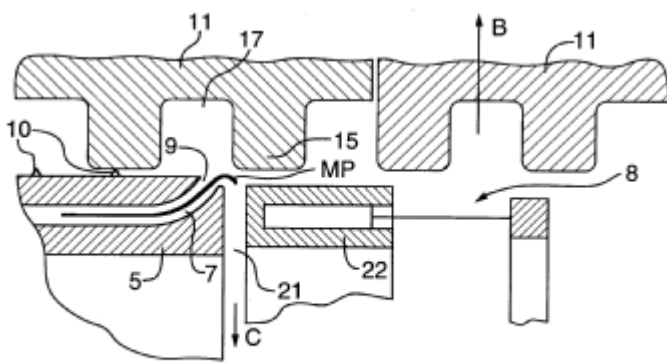


FIG. 3

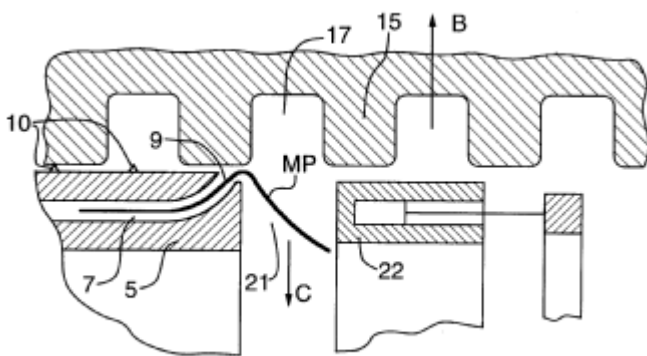


FIG. 4

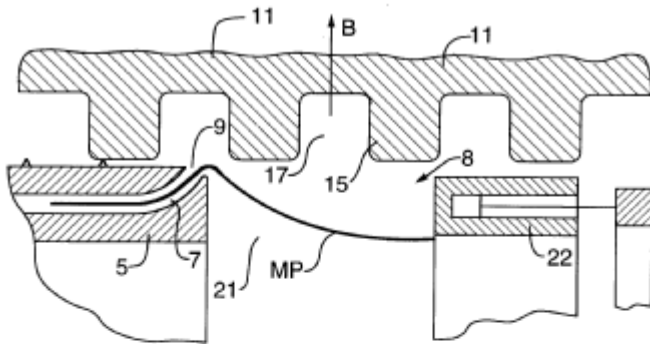


FIG. 5

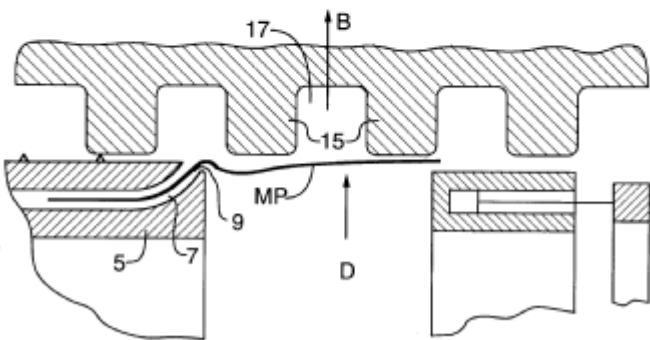


FIG. 6

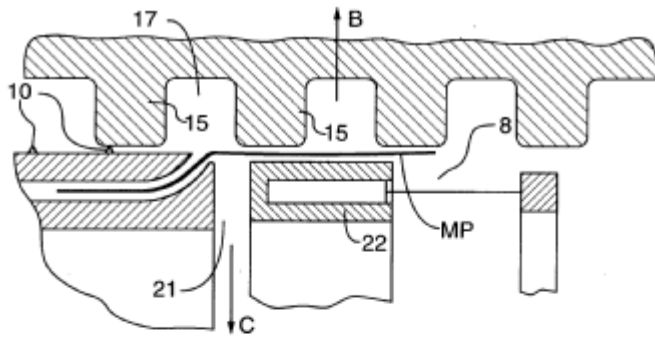


FIG. 7

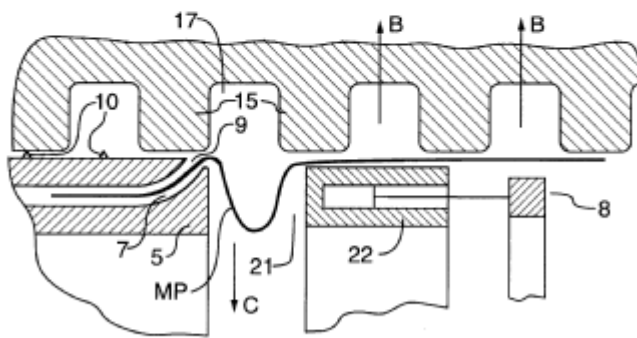


FIG. 8

B29C 49/42412

Definition statement

This place covers:

Methods or apparatuses for applying an indicia (e.g. pattern, marking, design, identifying feature, etc.).

Illustrative example of subject matter classified in this group:

A marking step can also be used to mark usual information on the filler product that is contained in the container, such as, for example, an expiration date or the like. Thus, a single marking step makes it possible to print information relative to the traceability of the container and relative to the product that is contained in the container.



FIG. 4a



FIG. 4b

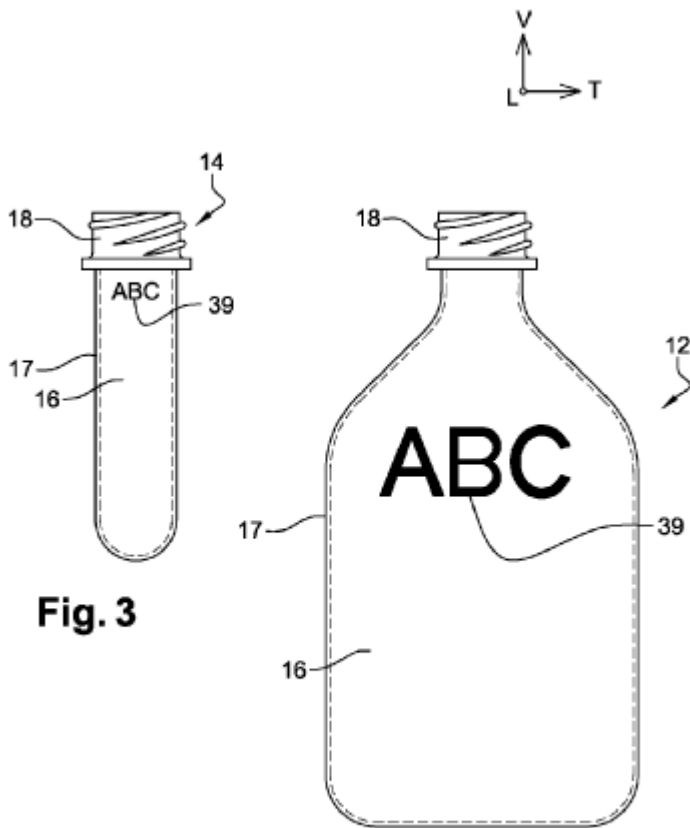


Fig. 3

Fig. 4

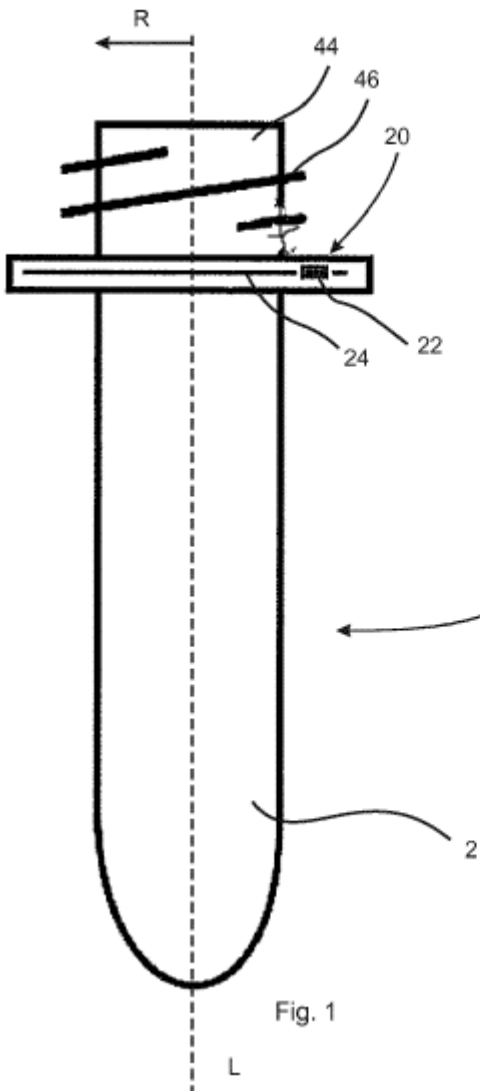


Fig. 1

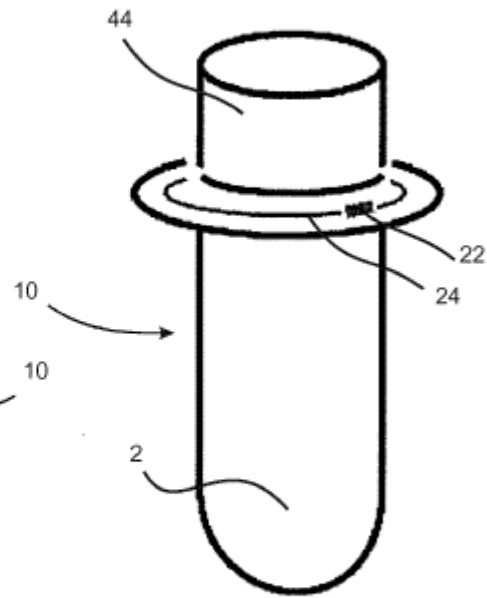


Fig. 2

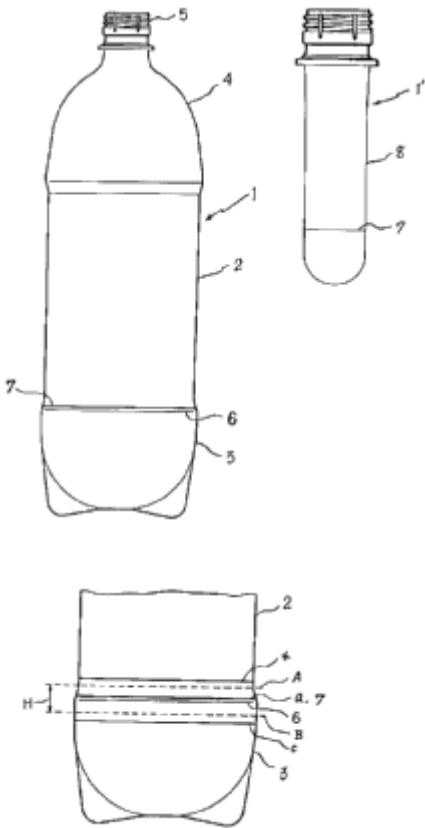
B29C 49/42413

Definition statement

This place covers:

Where the applied indicia can be used to measure or indicate the deformation that a preform undergoes during processing.

Illustrative example of subject matter classified in this group:

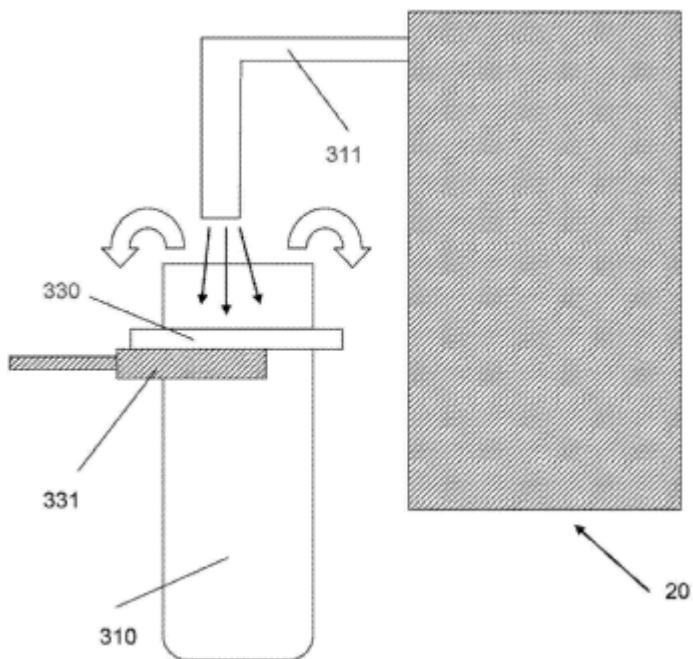


B29C 49/42416

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

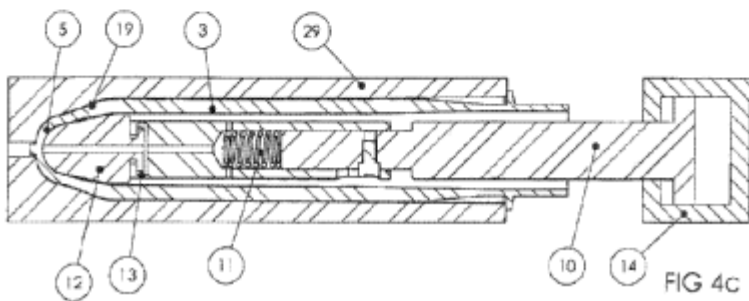
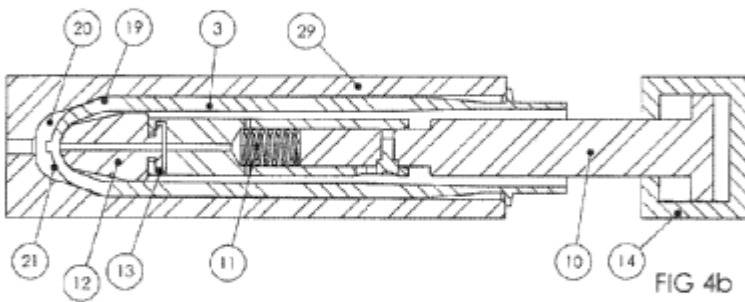
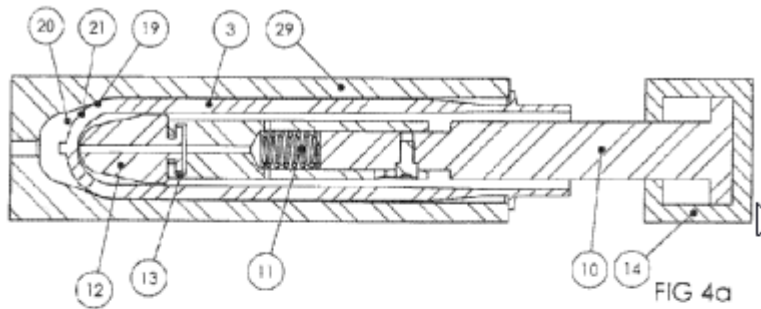


B29C 49/42421

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

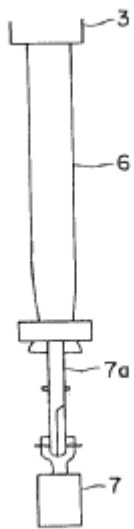
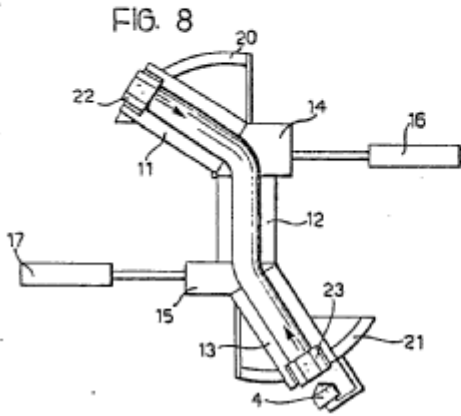
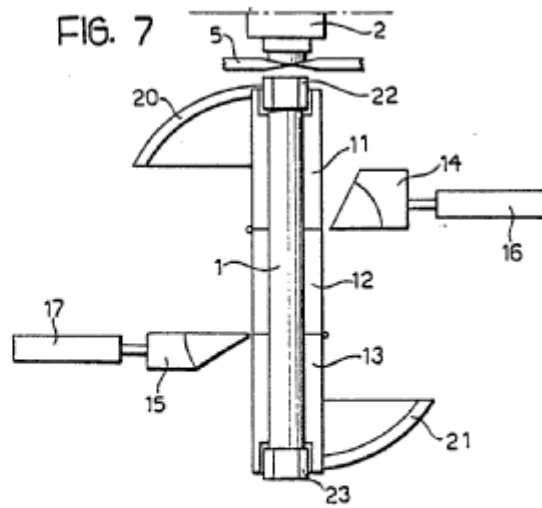
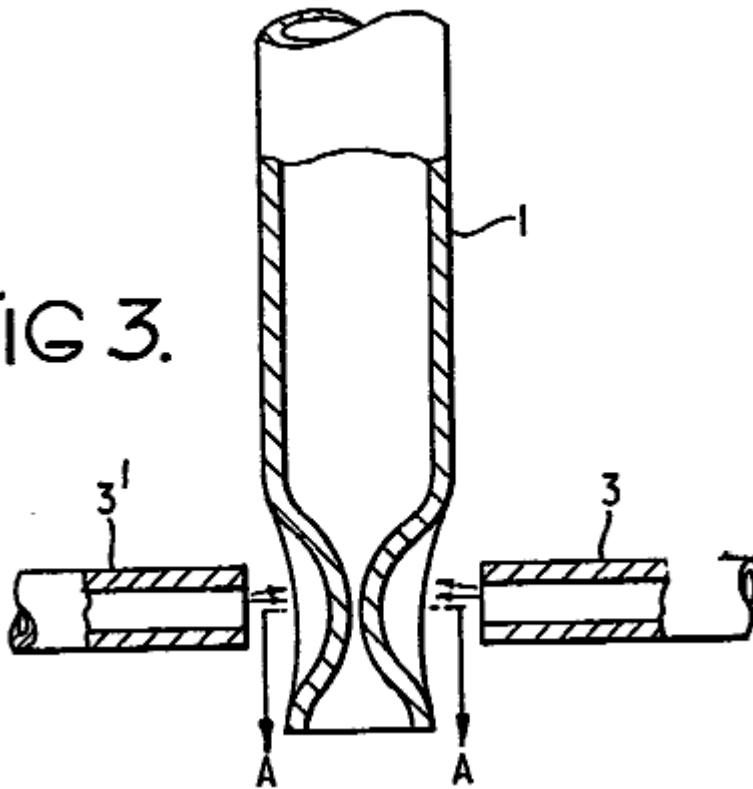


FIG 3.



B29C 49/42422

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

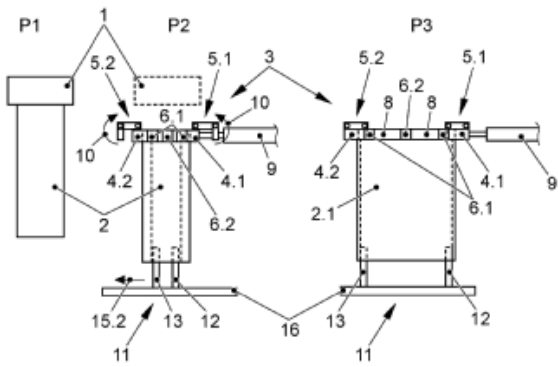


FIG. 1a

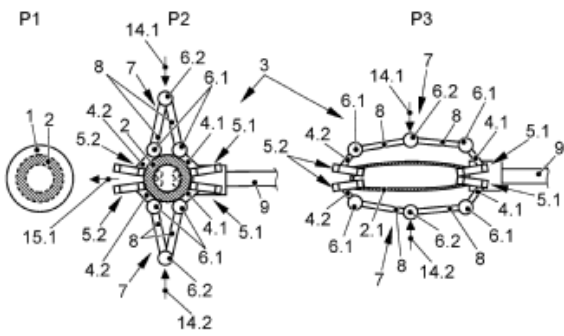


FIG. 1b

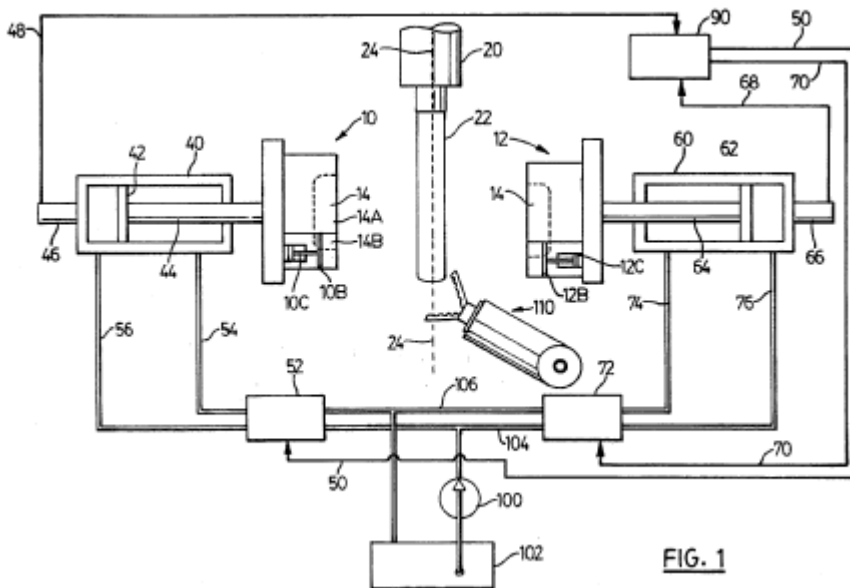


FIG. 1

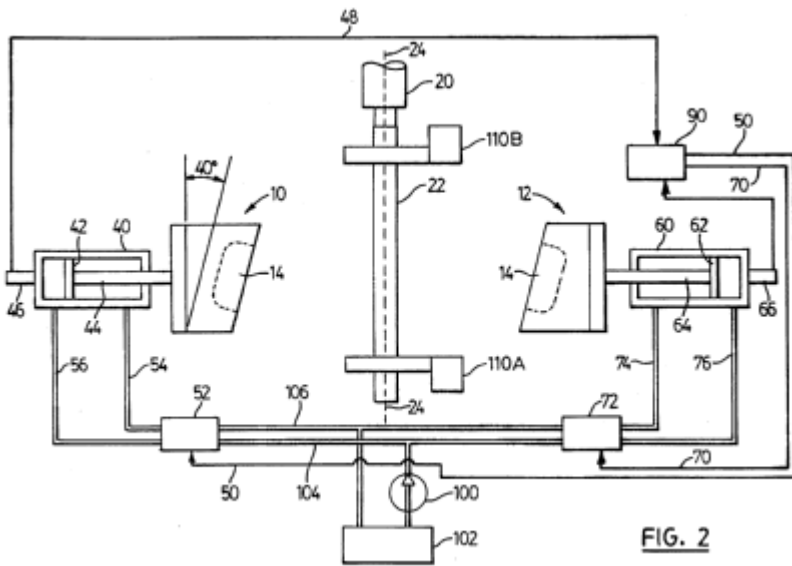


FIG. 2

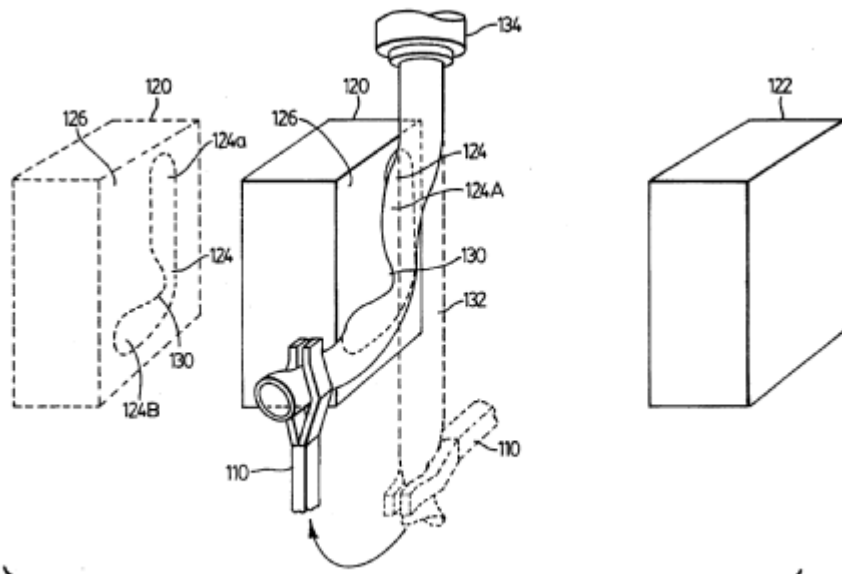


FIG. 3

FIG. 1

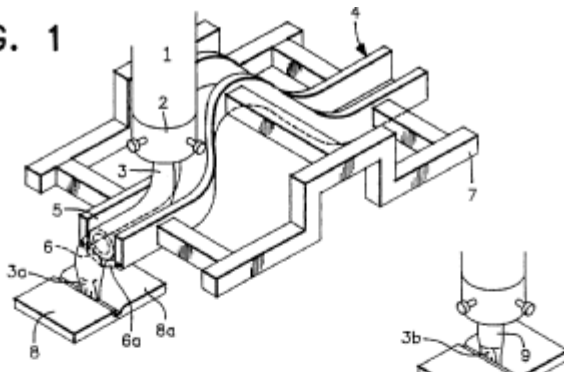


FIG. 2

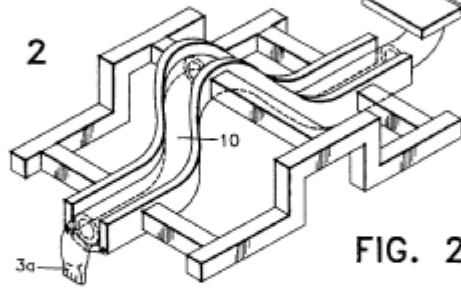
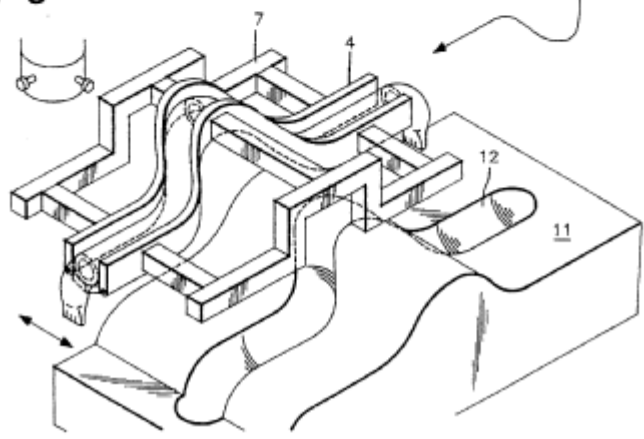


FIG. 2a



FIG. 3

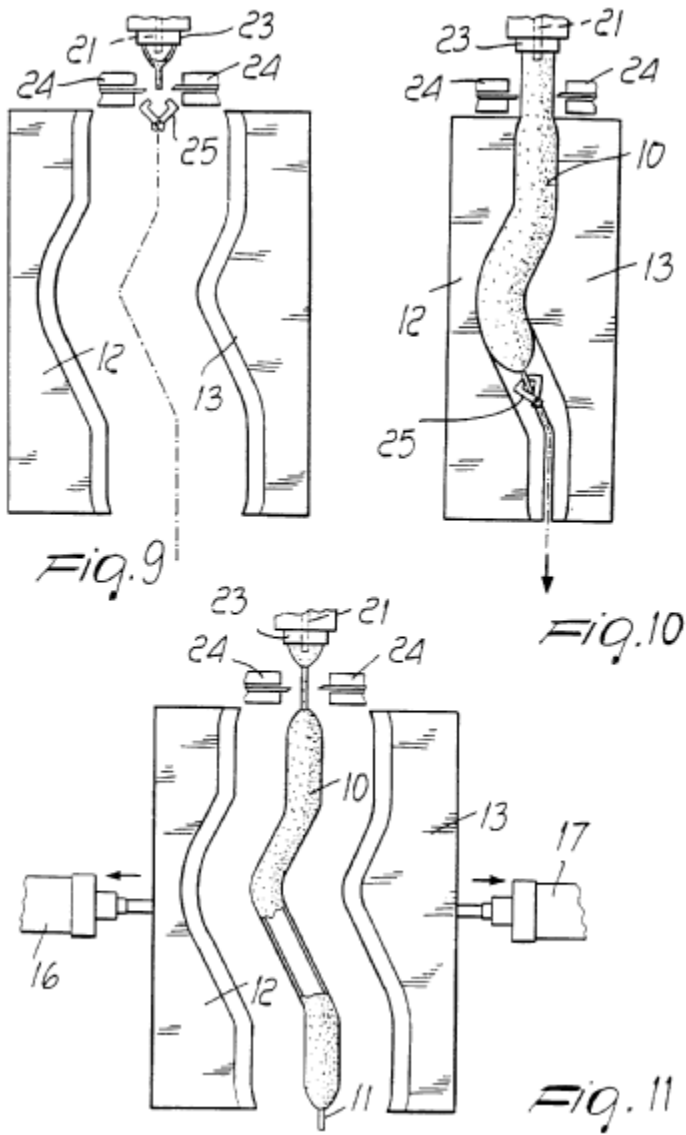


B29C 49/42424

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



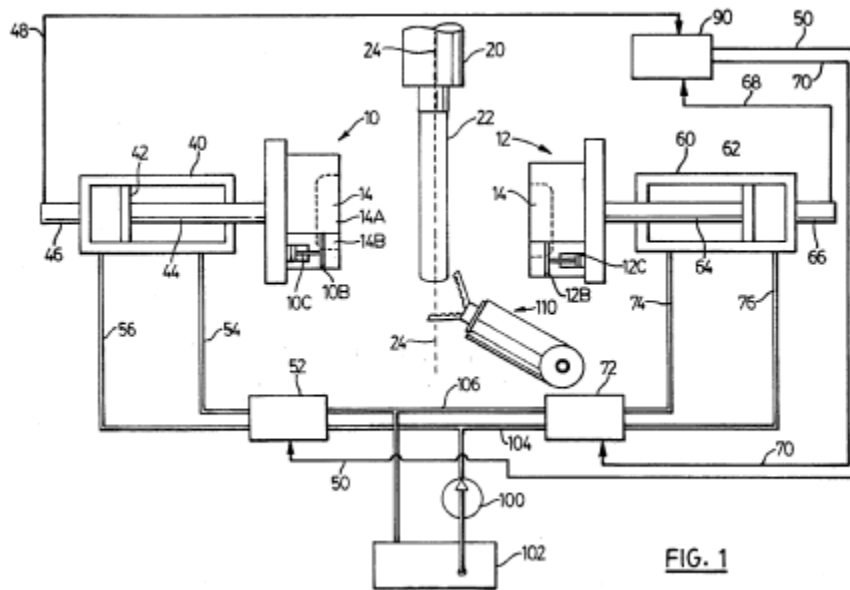


FIG. 1

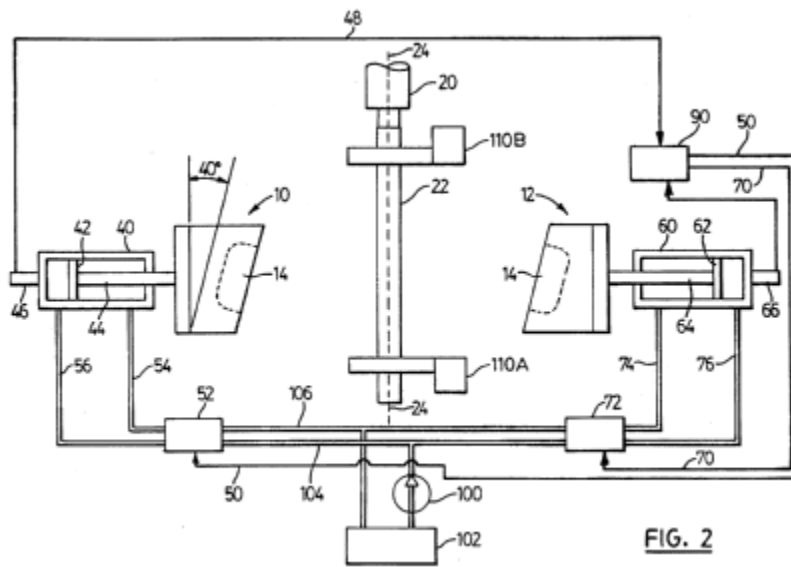
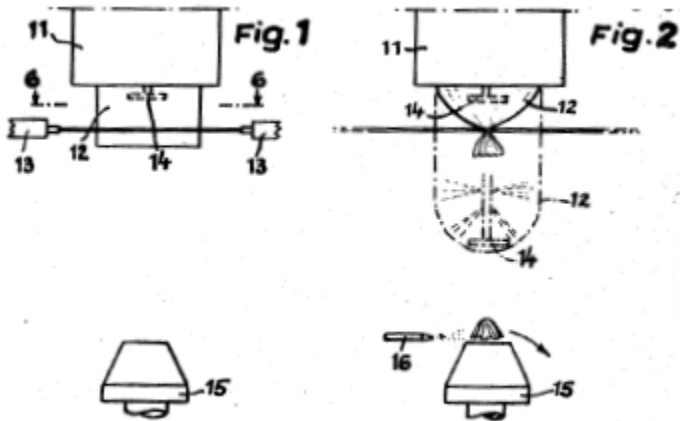
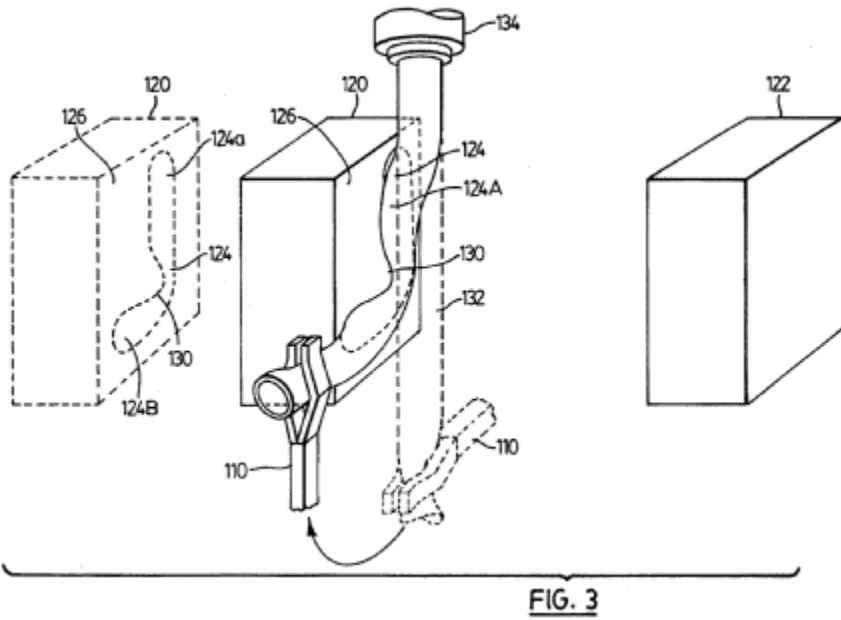


FIG. 2



DATE: MAY 1, 2022

PROJECT RP10424

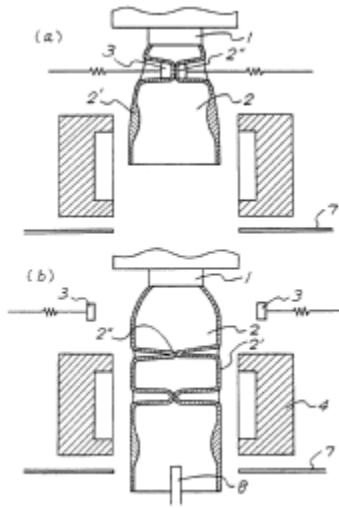


FIG. 1

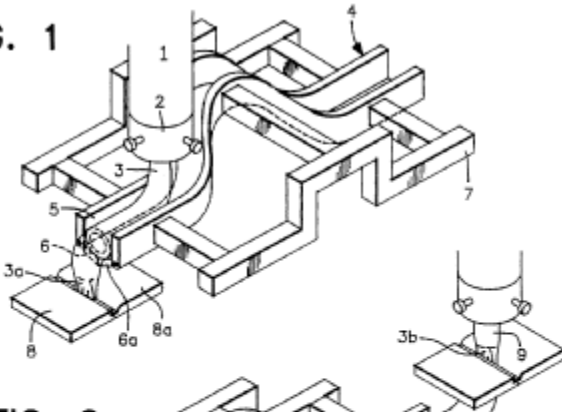
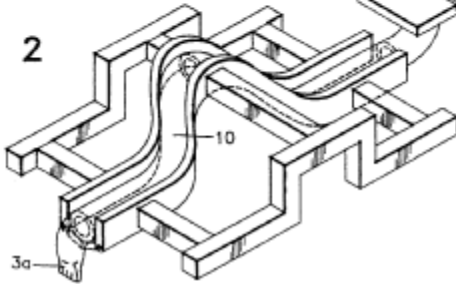
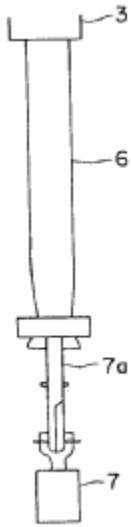


FIG. 2



DATE: MAY 1, 2022

PROJECT RP10424



B29C 49/42426

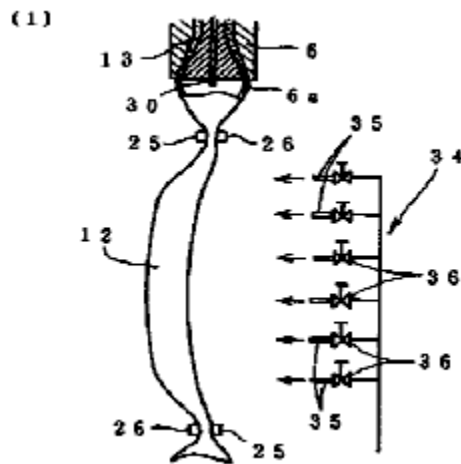
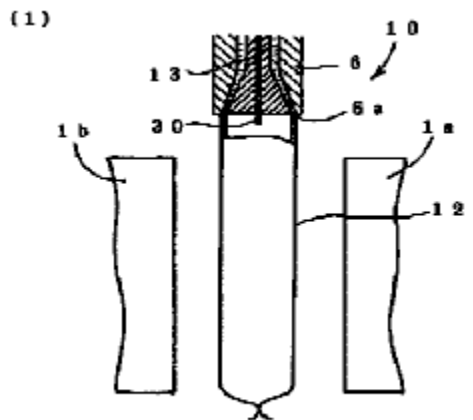
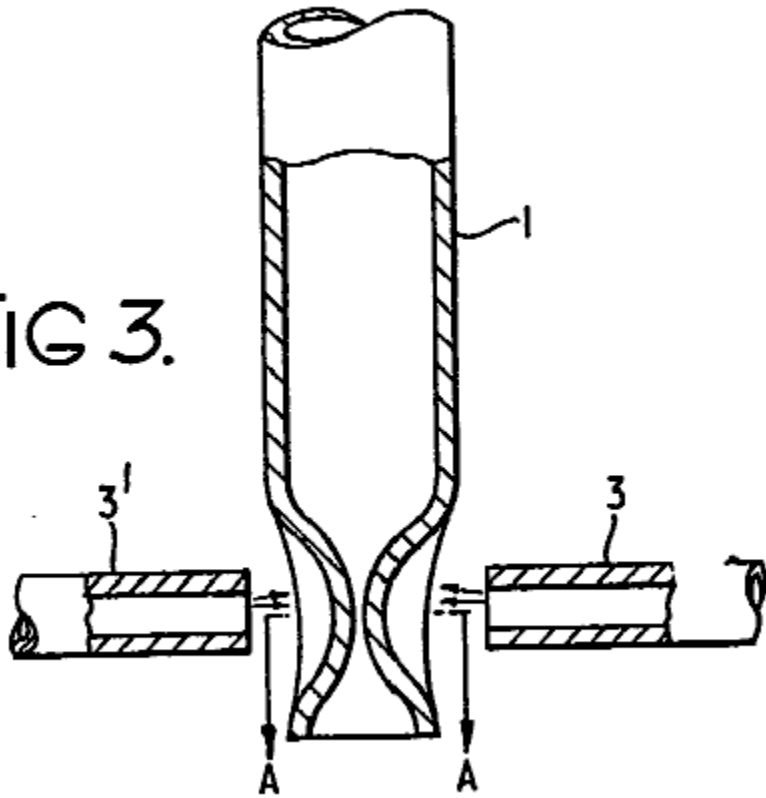
Definition statement

This place covers:

Devices where the pressure differential is pneumatic (e.g. vacuum, pressurized gas, ducted air, etc.) in nature.

Illustrative example of subject matter classified in this group:

FIG 3.



B29C 49/42428

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

FIG. 1

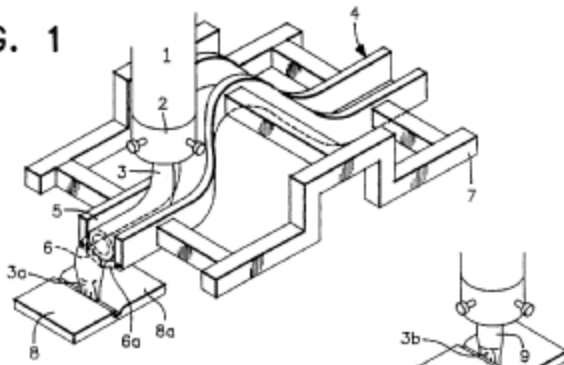


FIG. 2

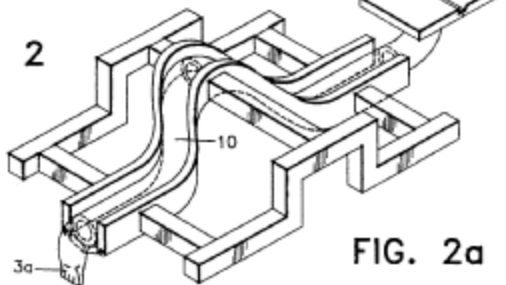
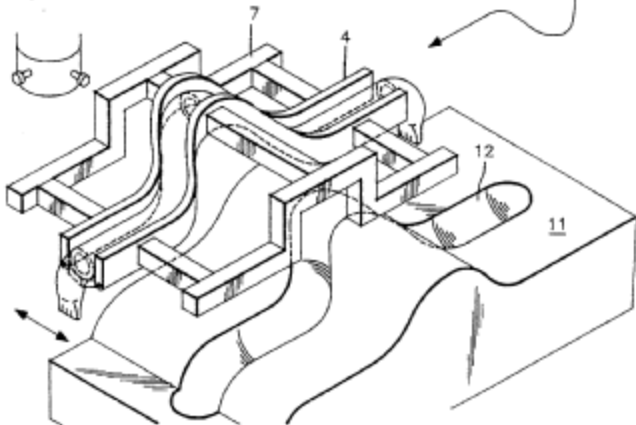


FIG. 2a

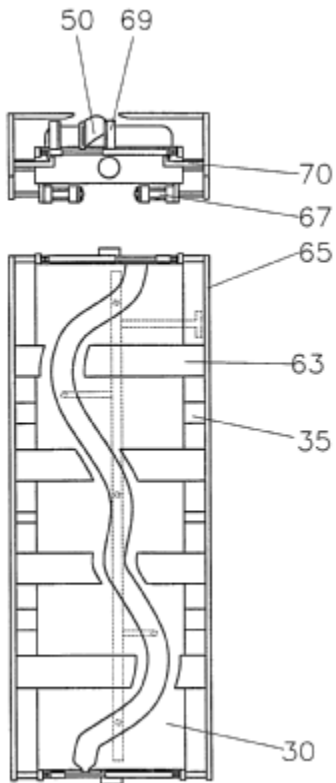


FIG. 3



DATE: MAY 1, 2022

PROJECT RP10424



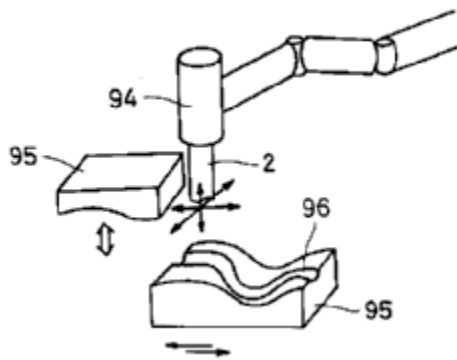
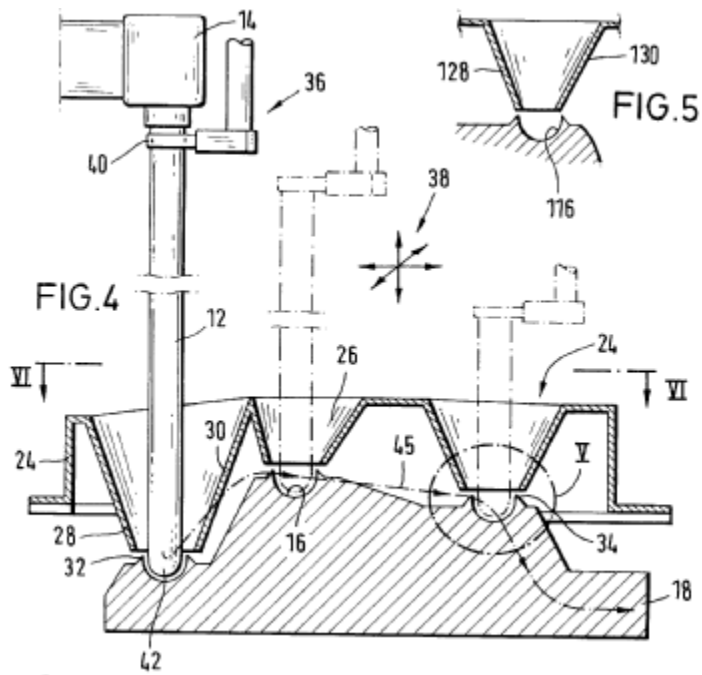
B29C 49/42442

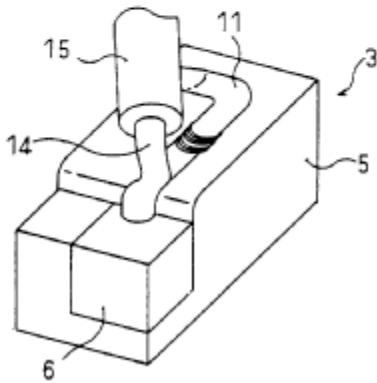
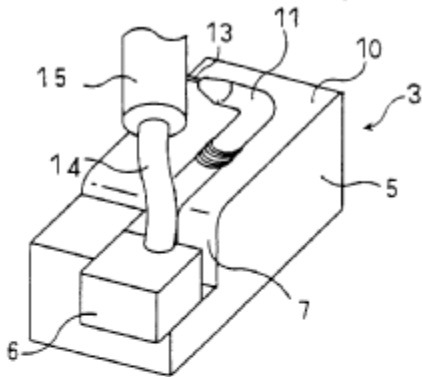
Definition statement

This place covers:

Devices where the deformation is caused by the extruder head movement.

Illustrative example of subject matter classified in this group:





B29C 49/42444

Definition statement

This place covers:

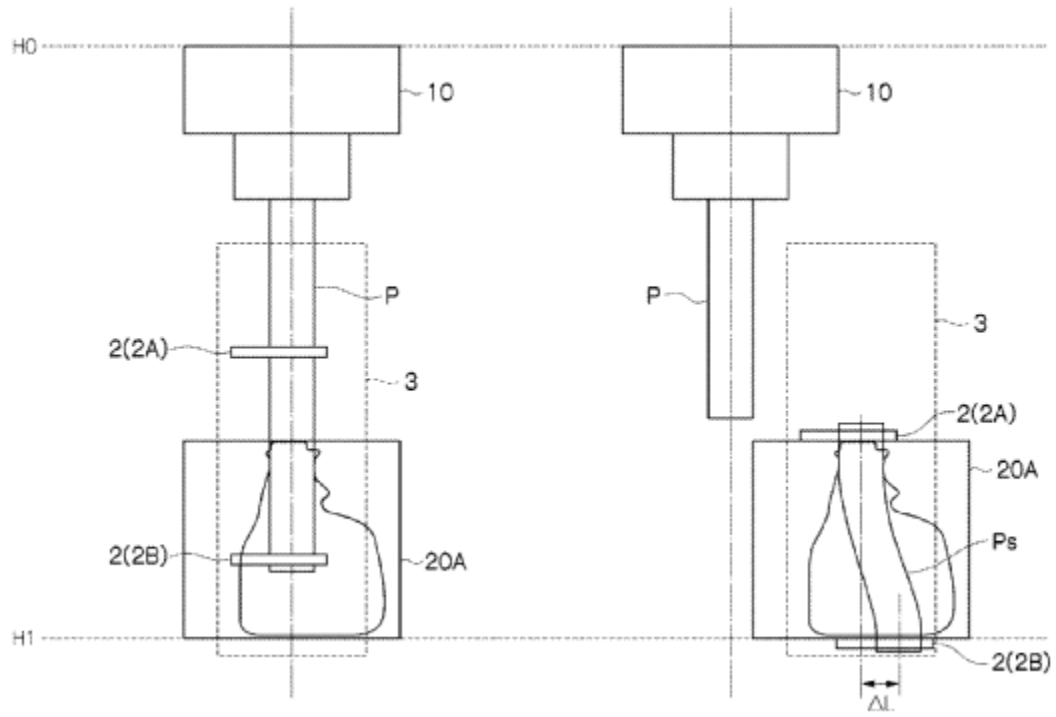
Devices where the deformation is caused by the transport means.

Illustrative example of subject matter classified in this group:

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424



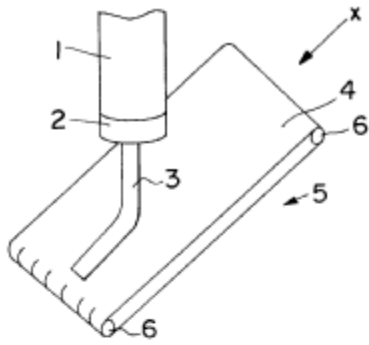


FIG. 1

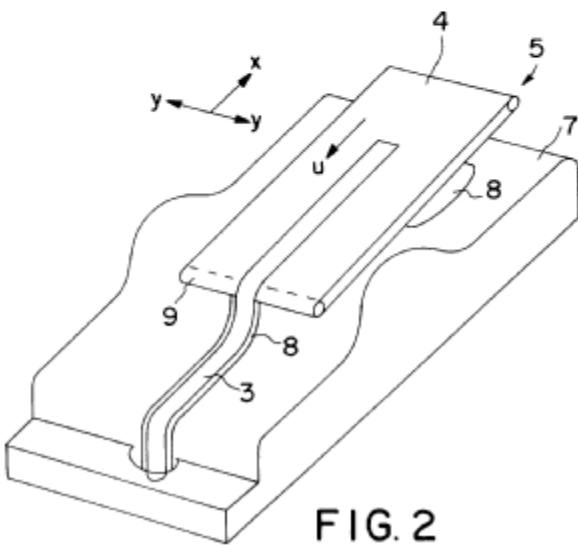


FIG. 2

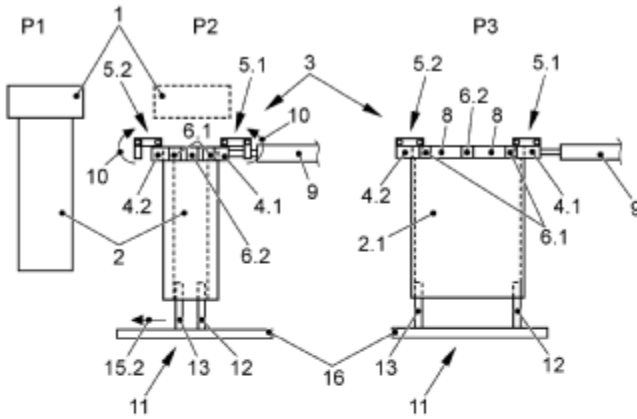


FIG. 1a

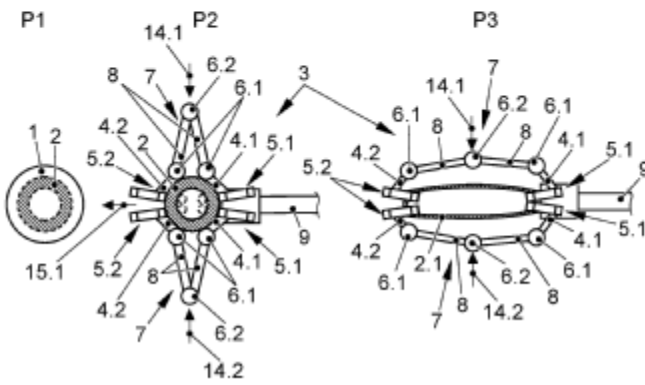


FIG. 1b

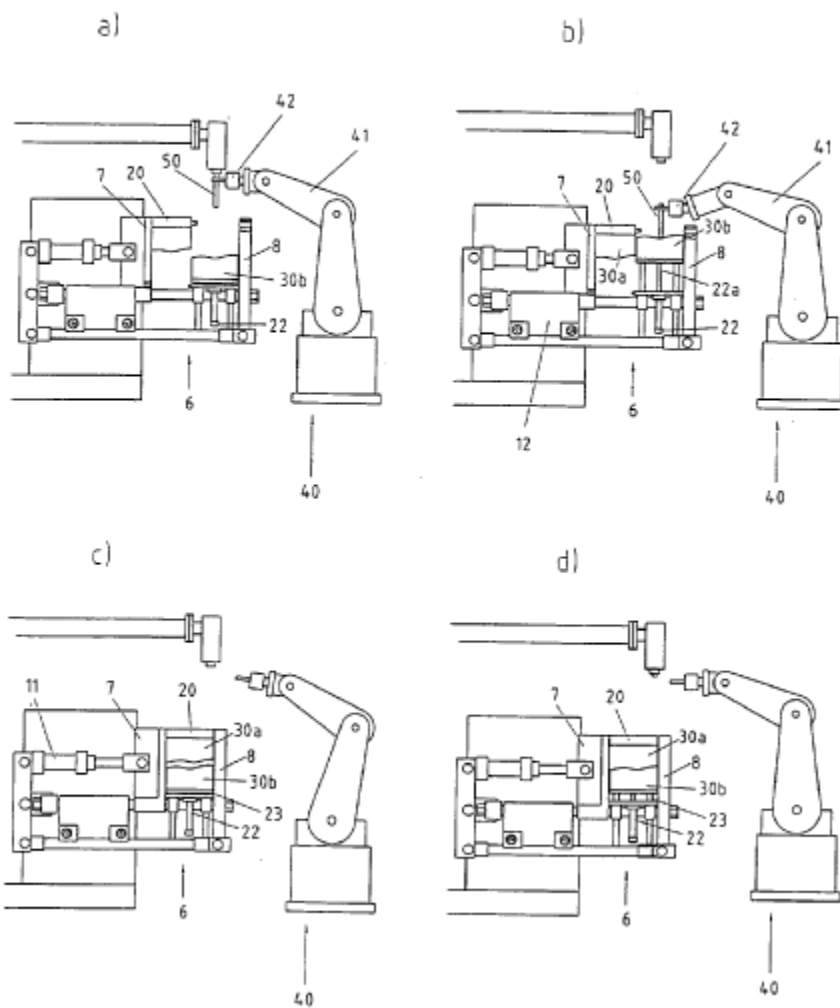
B29C 49/42446

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

Fig. 5



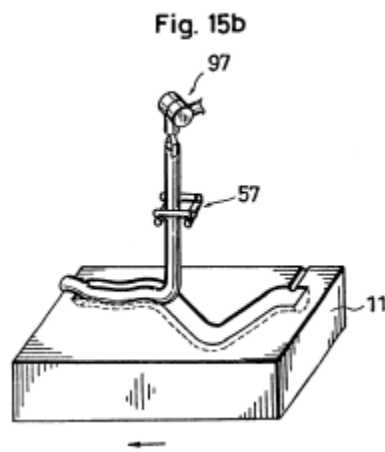
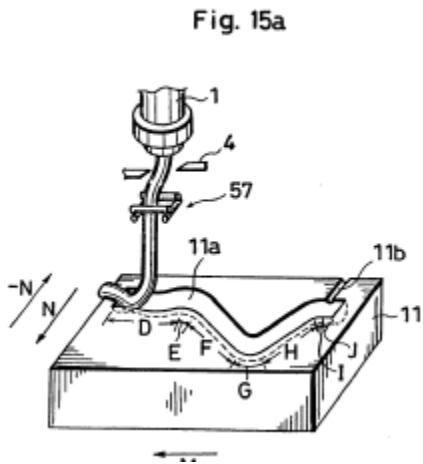
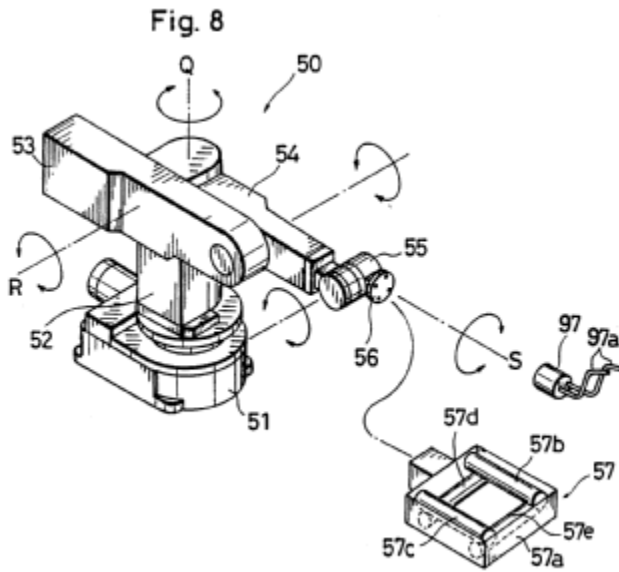


Fig. 15c

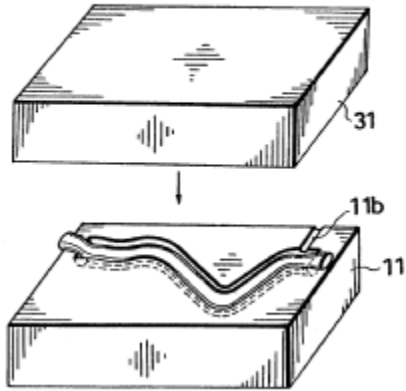
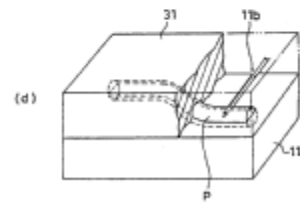
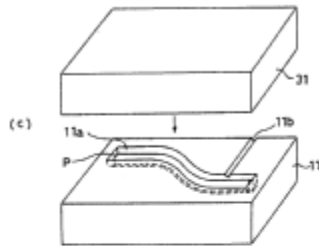
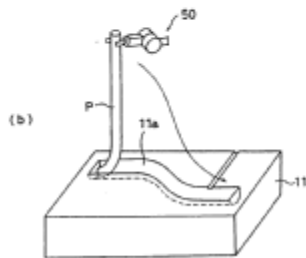
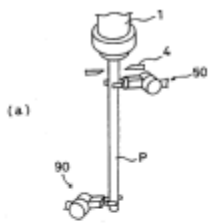
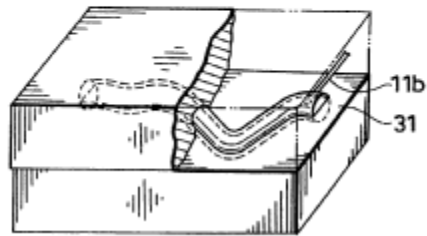


Fig. 15d



B29C 49/42448

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

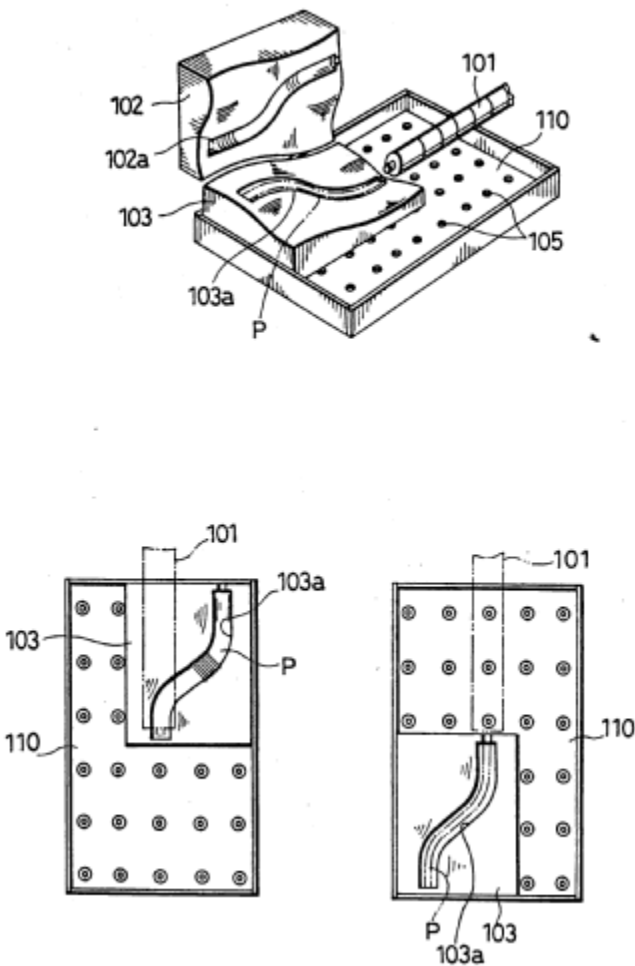


FIG.5A

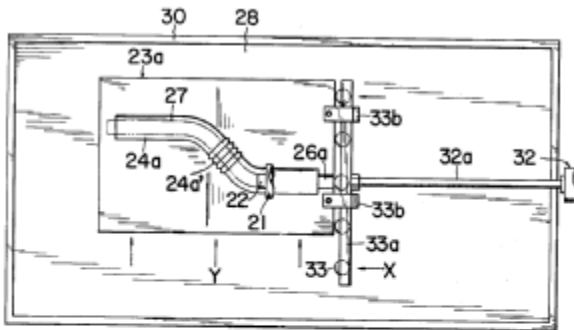
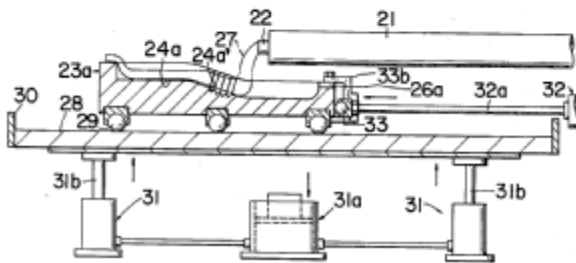


FIG.5B



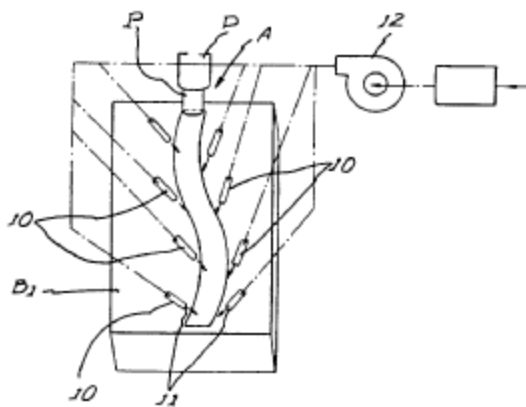
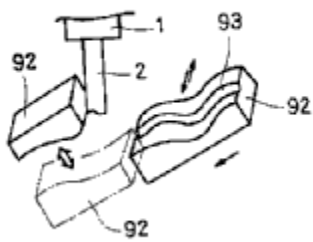
B29C 49/4245

Definition statement

This place covers:

Devices that use air to float/lift the parison while in the mould prior to the blow-moulding step.

Illustrative example of subject matter classified in this group:



B29C 49/42452

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

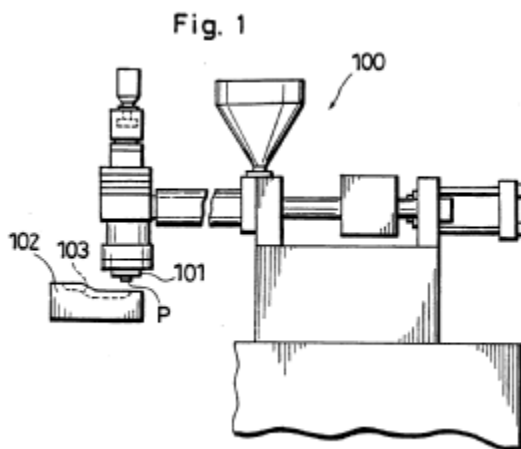
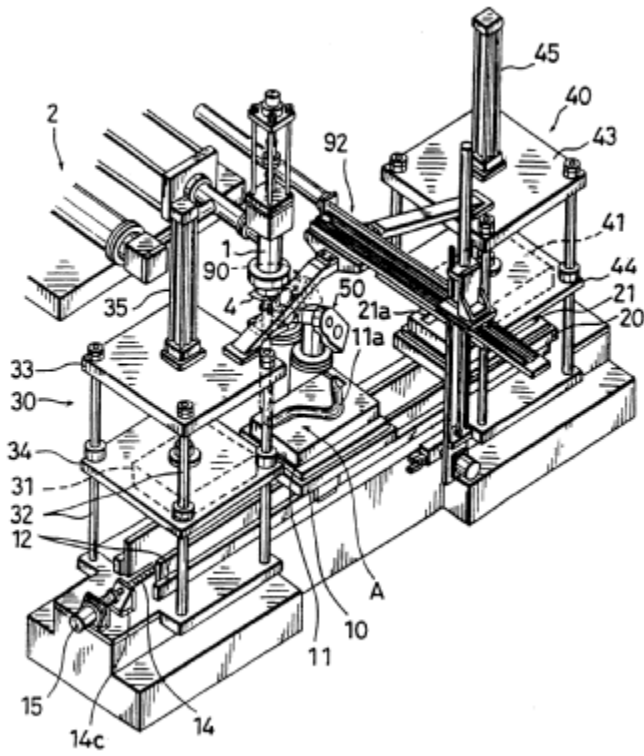
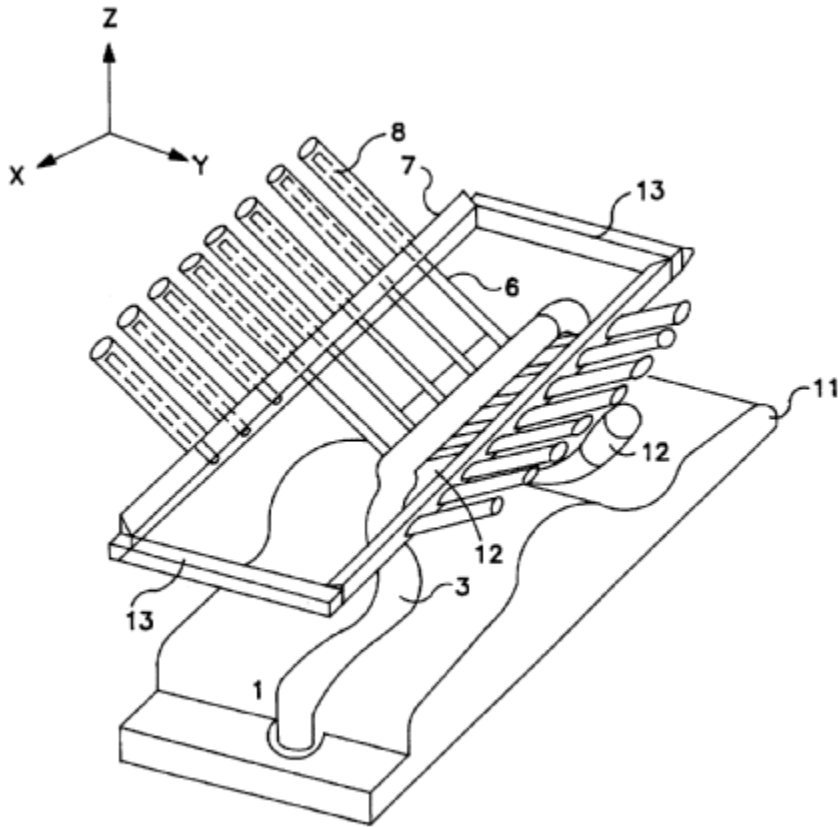


Fig. 4





B29C 49/42454

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

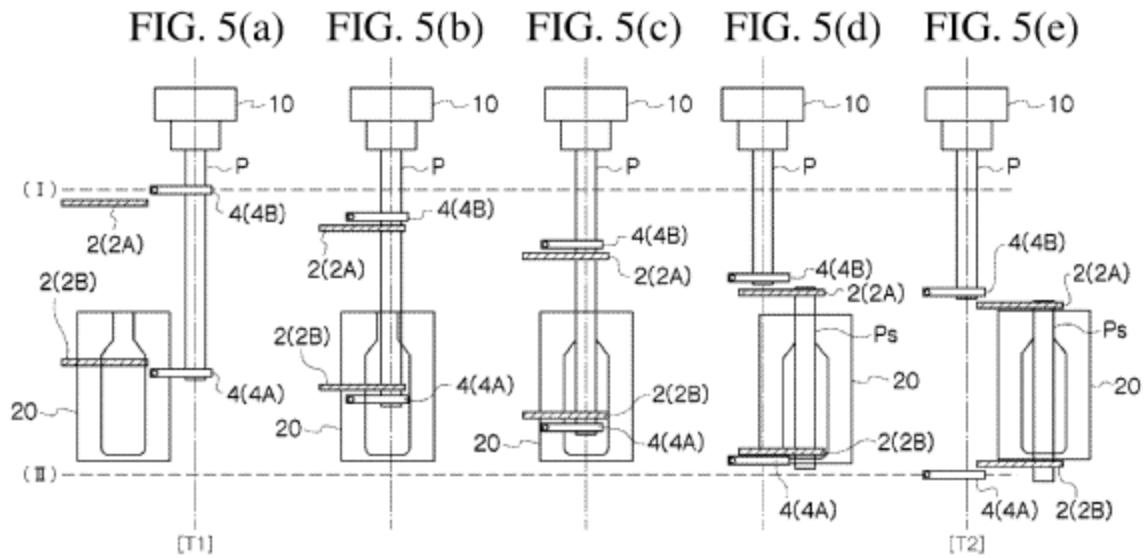


Fig. 1A

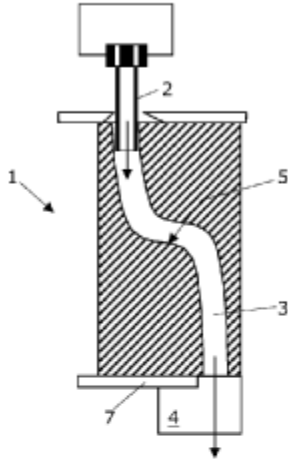


Fig. 1B

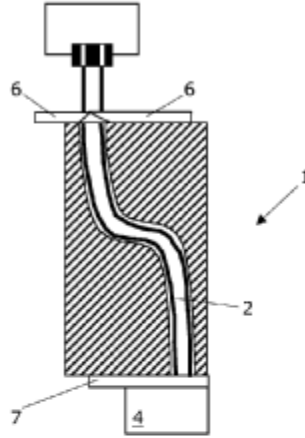


Fig. 1C

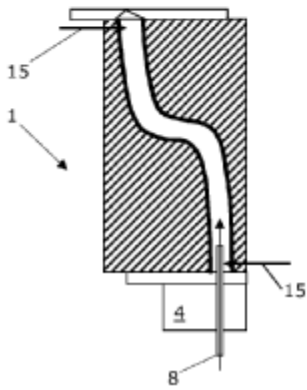
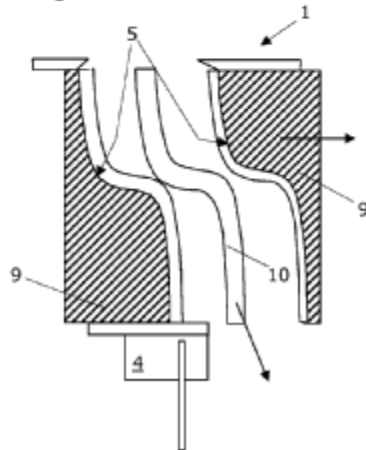


Fig. 1D

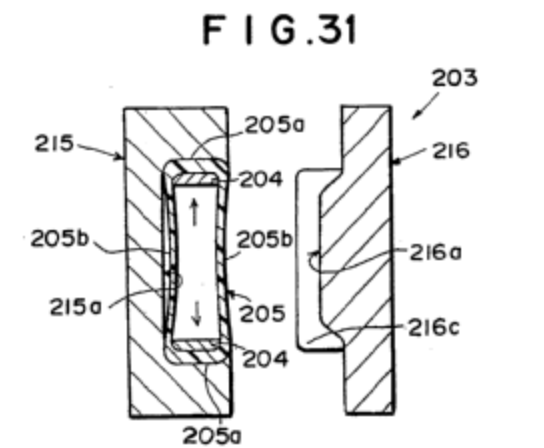
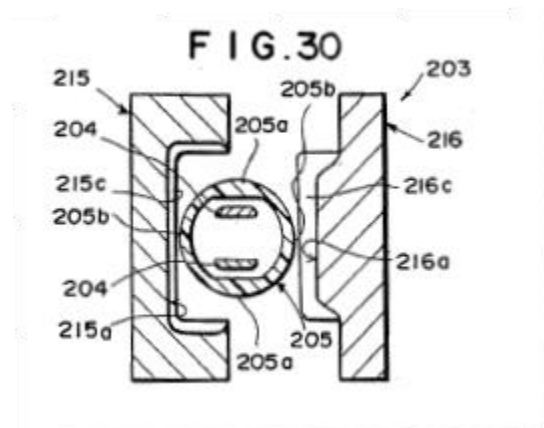


B29C 49/425

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B29C 49/427

Definition statement

This place covers:

Deformation that occurs during the blow-moulding process caused by mould elements that activate after the mould closes and prior to the end of the blowing process.

Illustrative example of subject matter classified in this group:

FIG.3

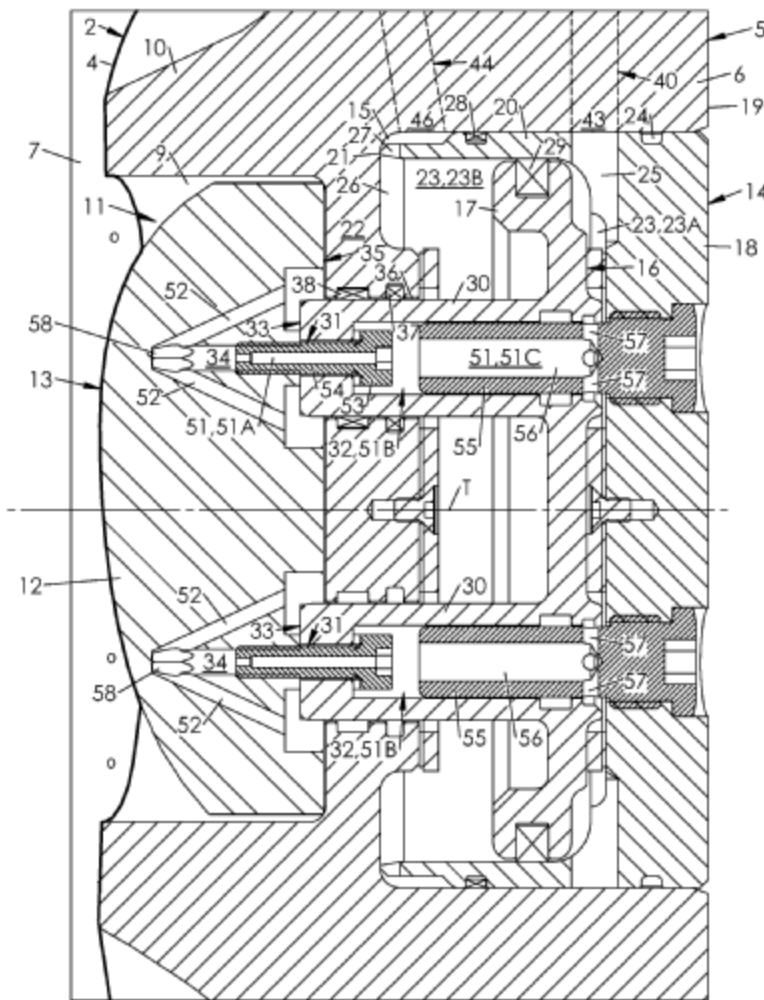
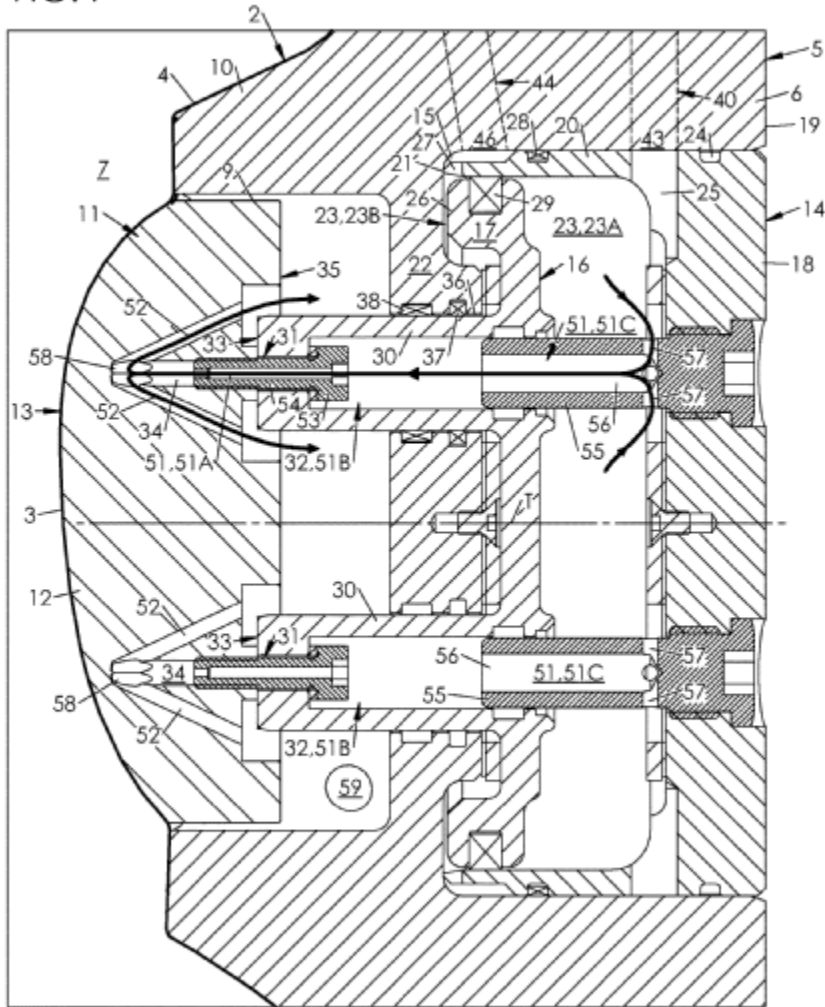


FIG. 4



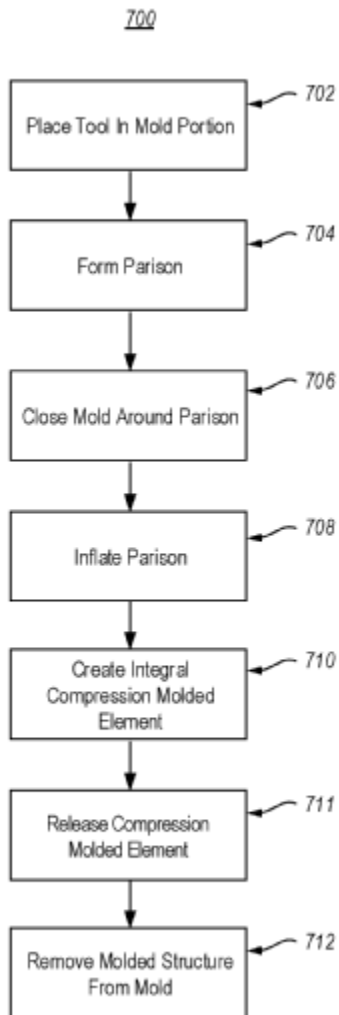


Fig. 24

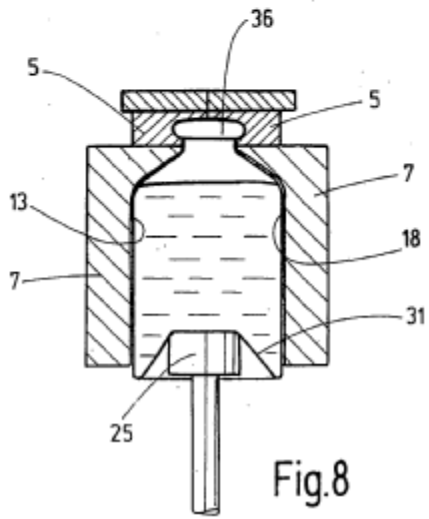
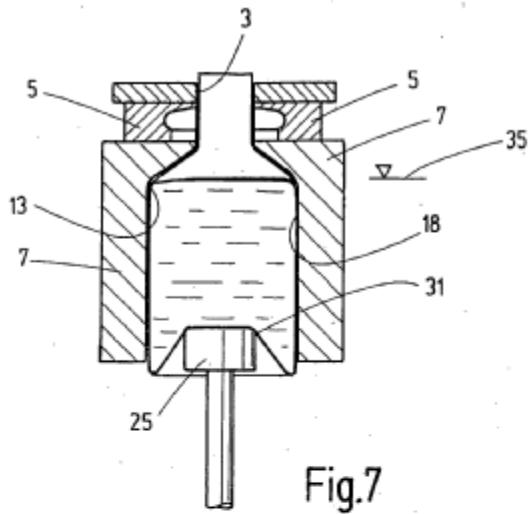
B29C 49/42802

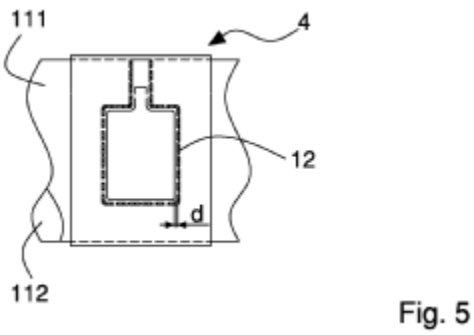
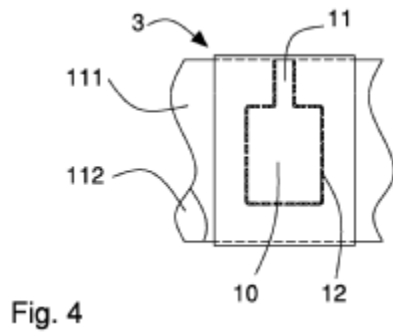
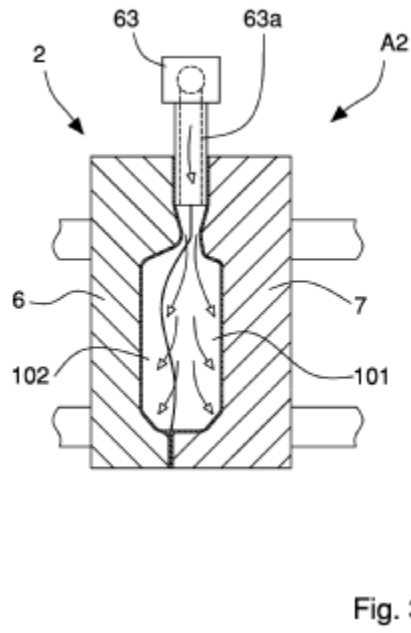
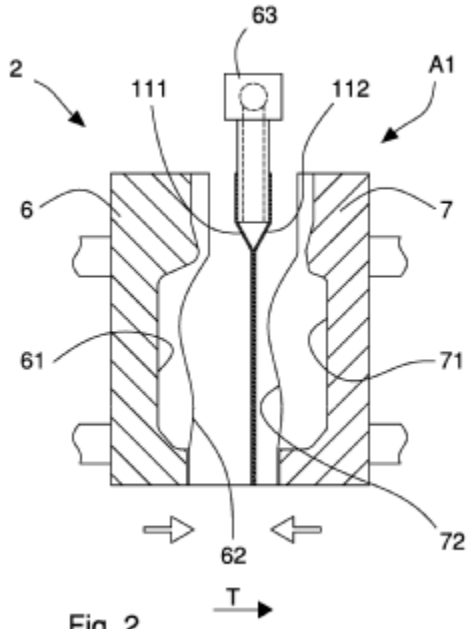
Definition statement

This place covers:

Where the closure or sealing foil is added after the blow-moulding process.

Illustrative example of subject matter classified in this group:





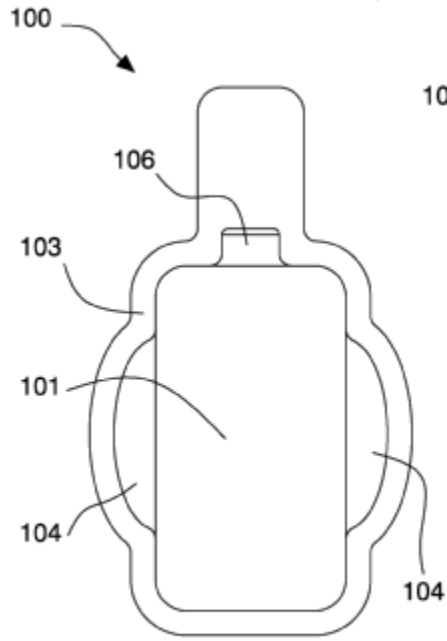


Fig. 6

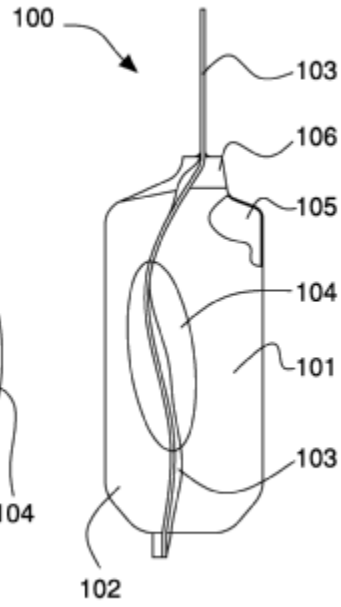
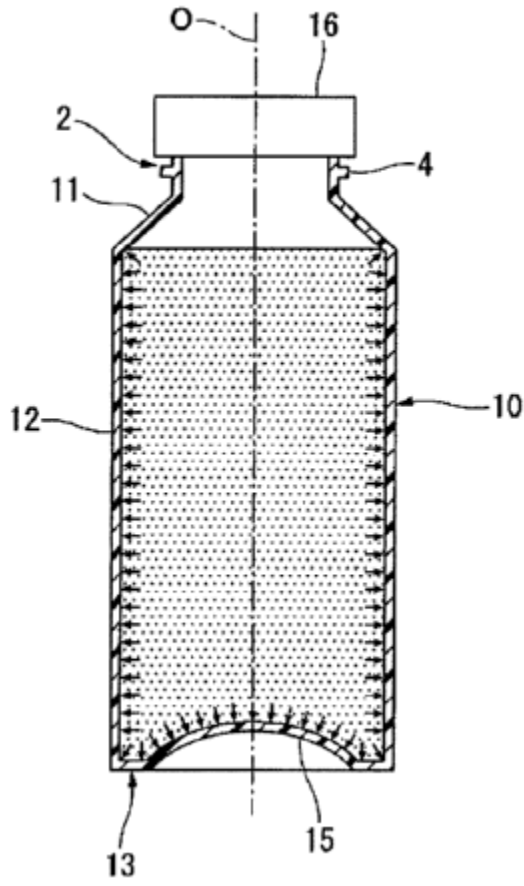
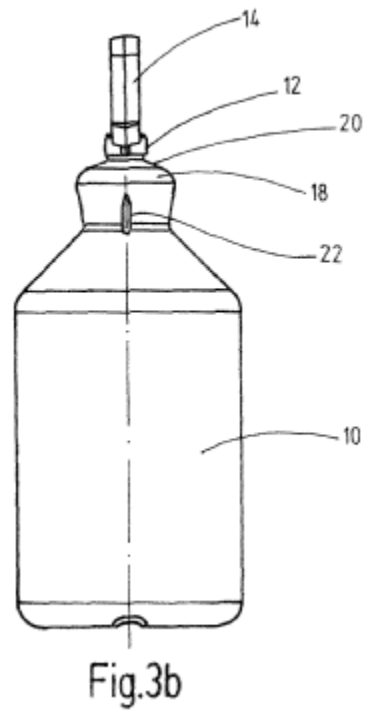
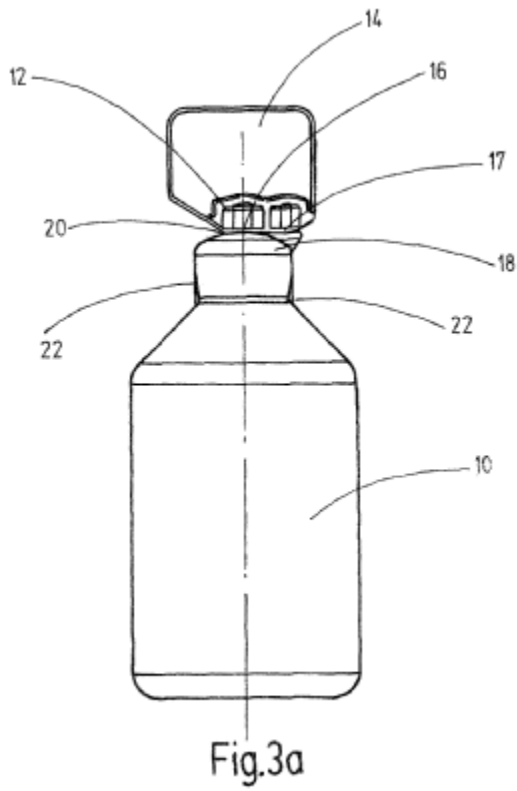
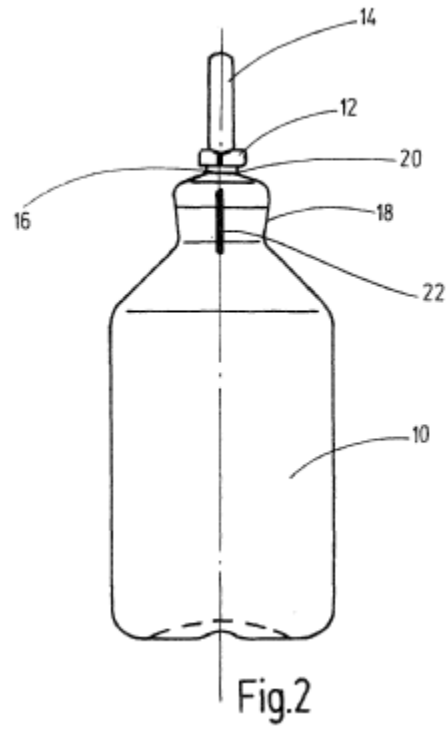
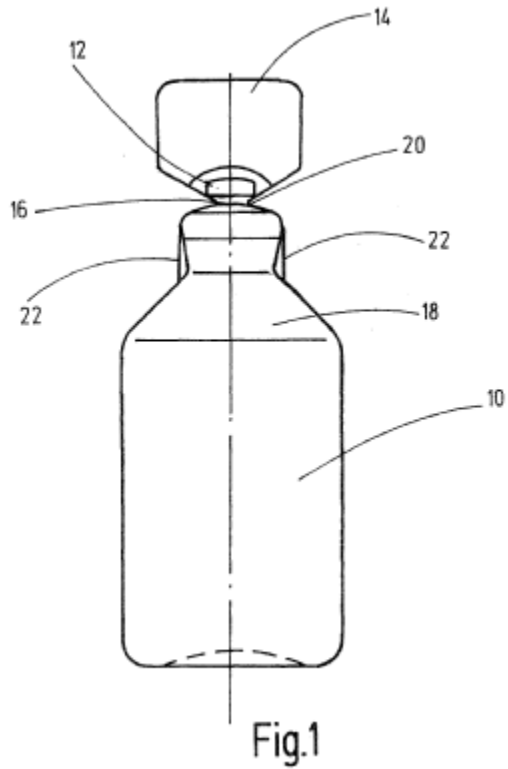


Fig. 7

FIG. 4





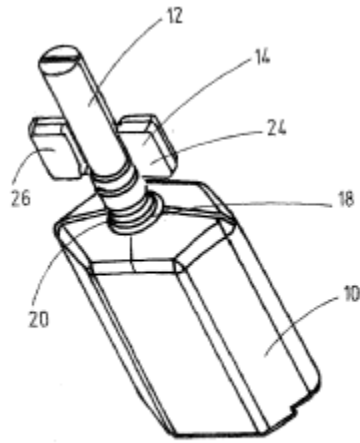
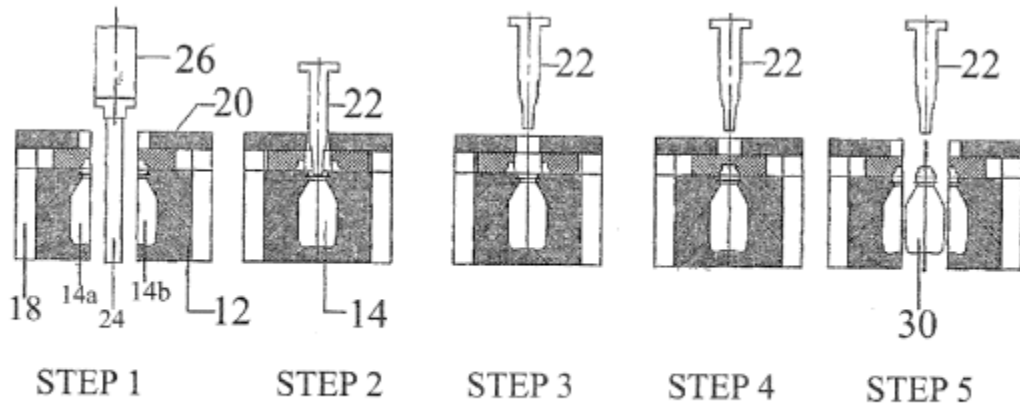


Fig. 4



DATE: MAY 1, 2022

PROJECT RP10424

Fig. 1

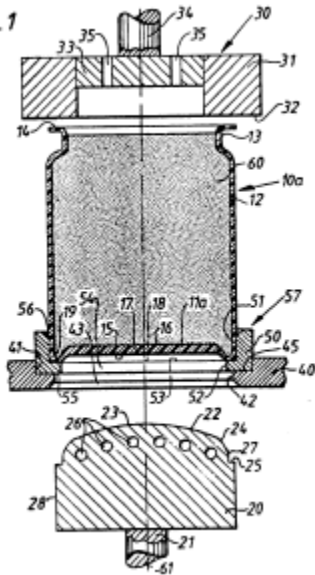


Fig. 2

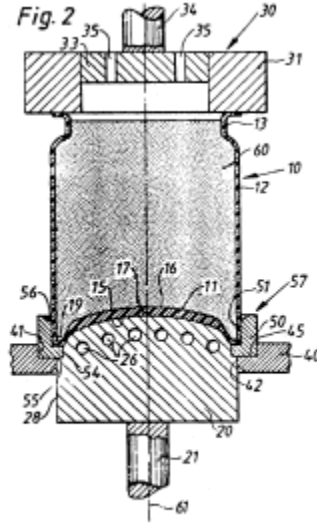


Fig. 3

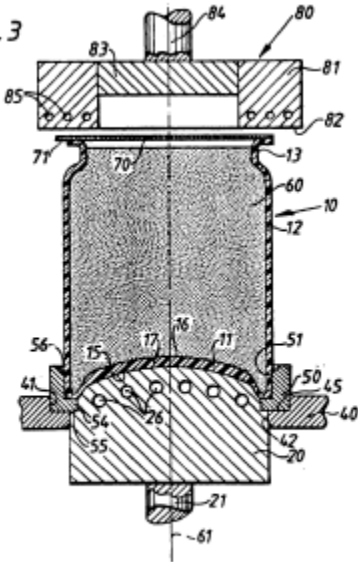
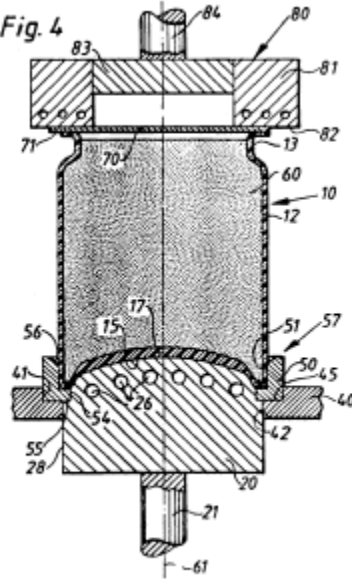


Fig. 4



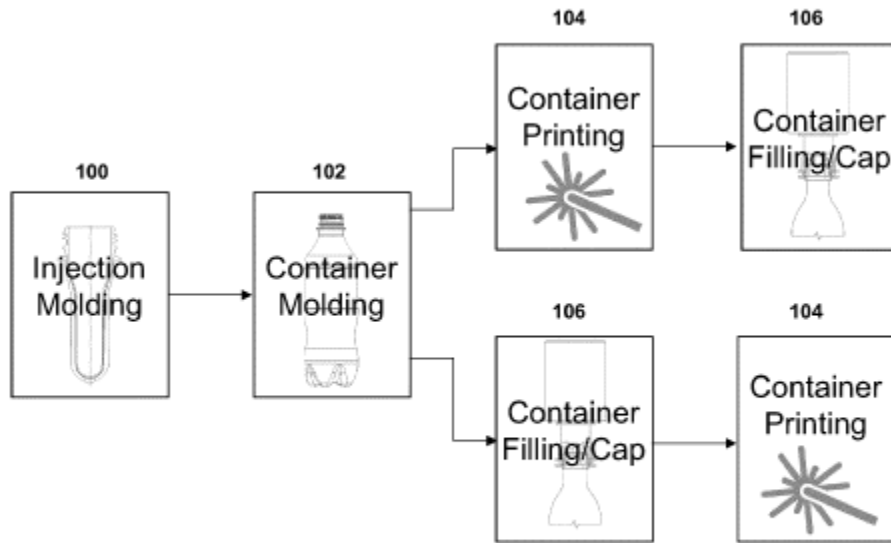


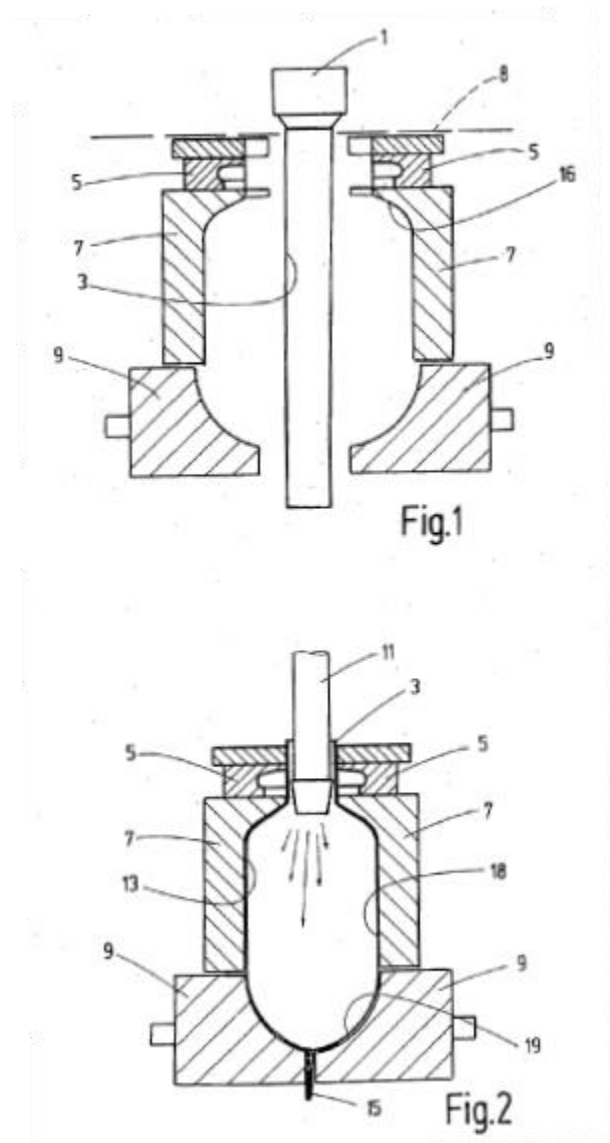
FIG. 4

B29C 49/42809

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



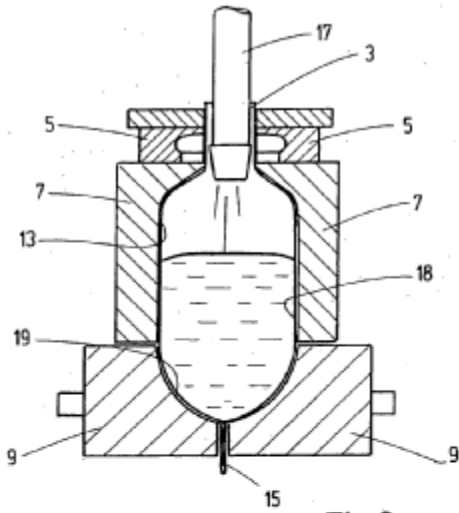


Fig.3

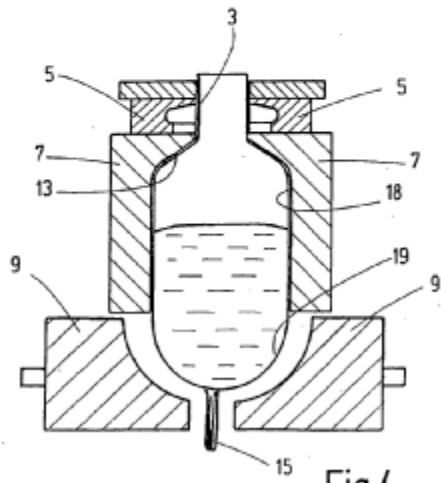
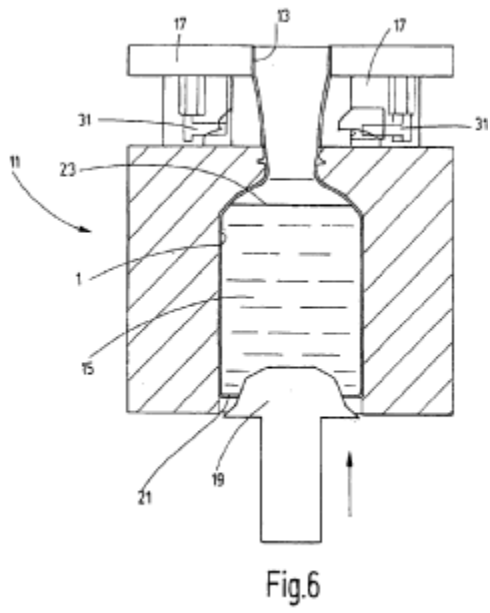
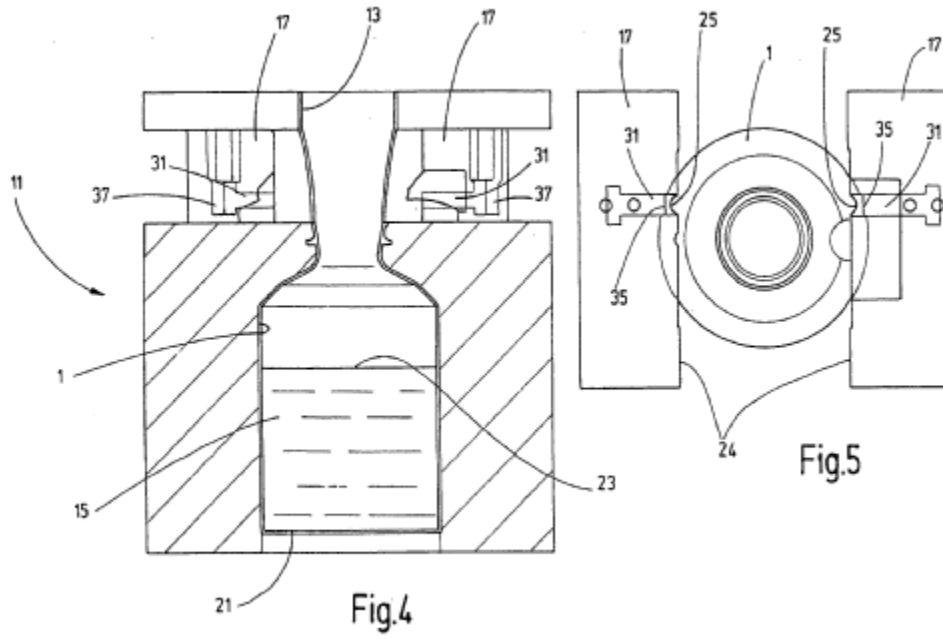
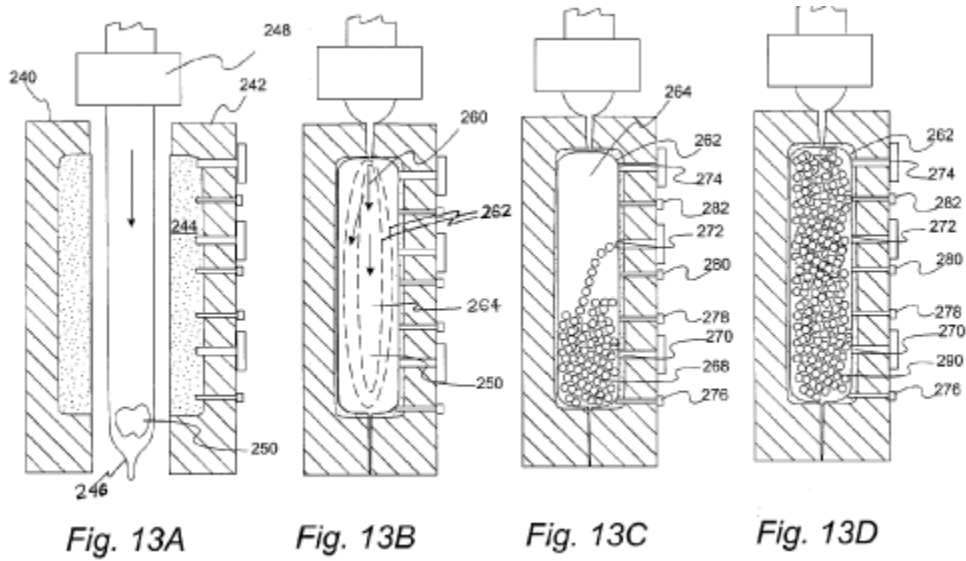


Fig.4



DATE: MAY 1, 2022

PROJECT RP10424



B29C 49/4281

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

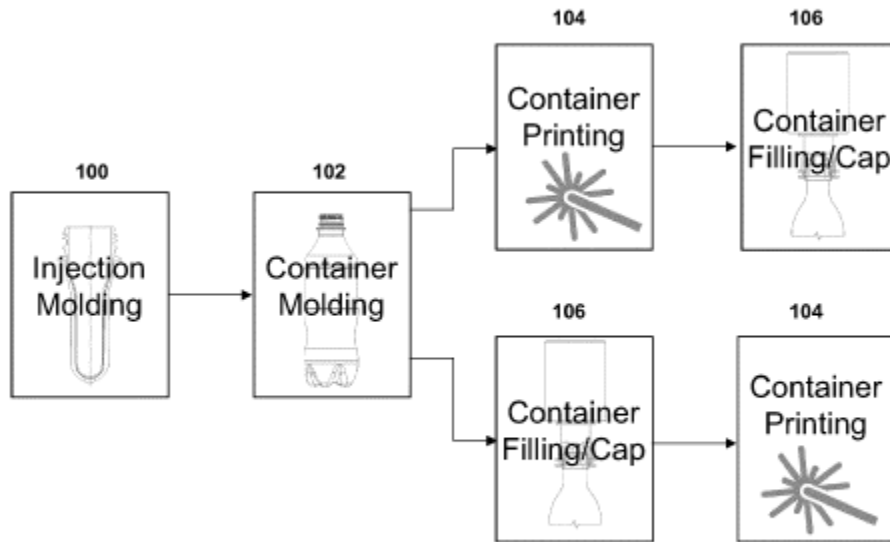


FIG. 4

B29C 49/42815

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

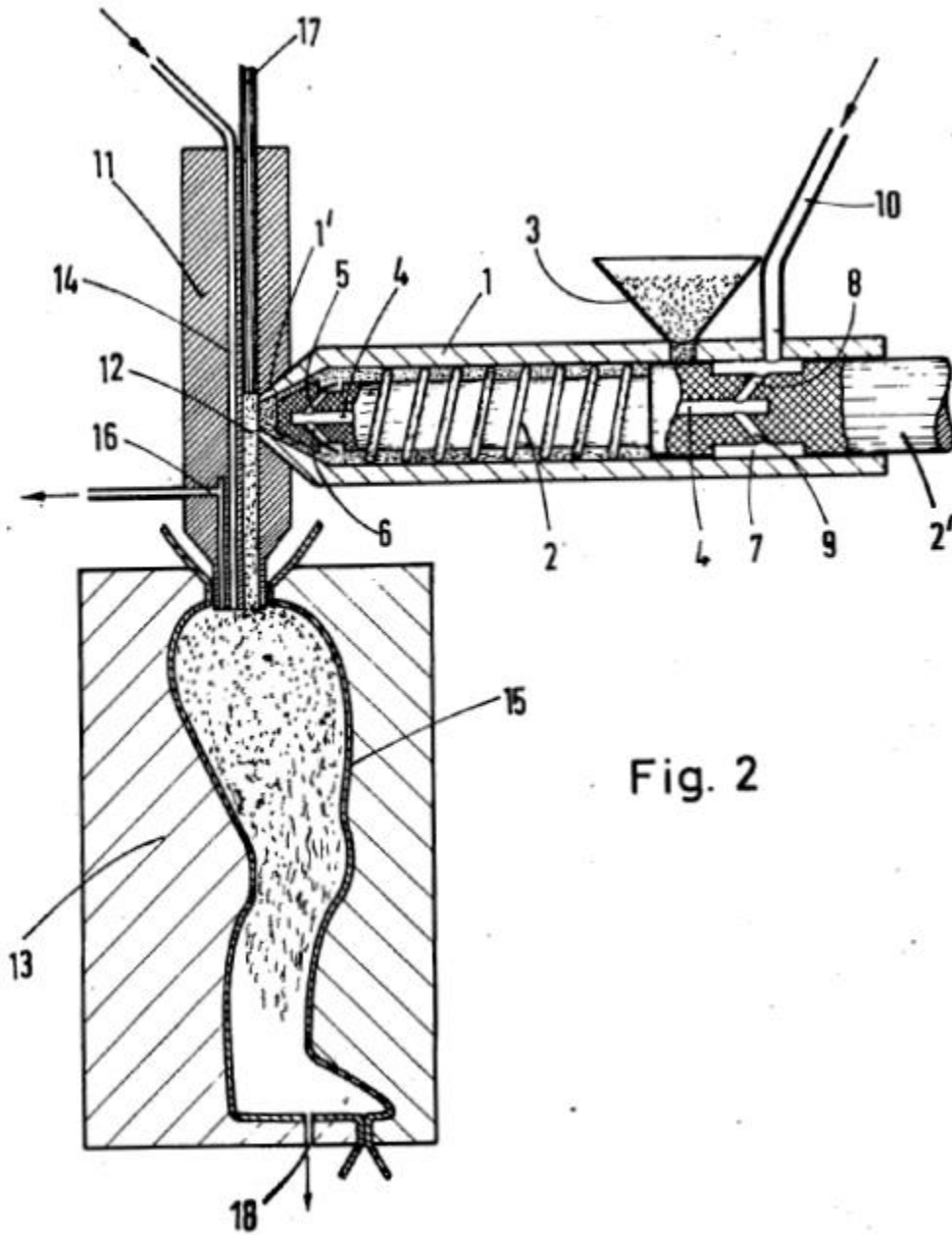


Fig. 2

B29C 49/42824

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

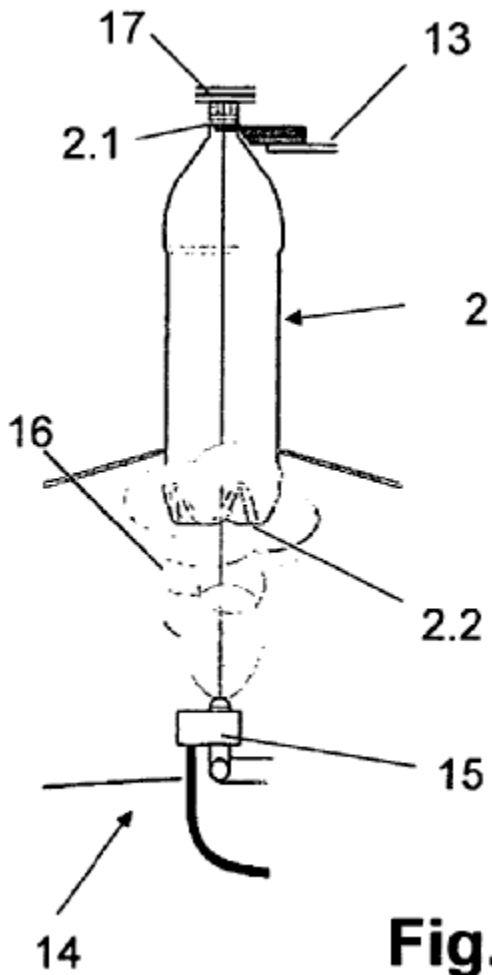


Fig. 3

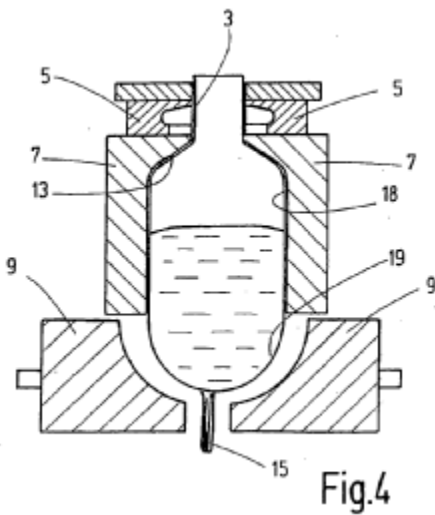
B29C 49/42826

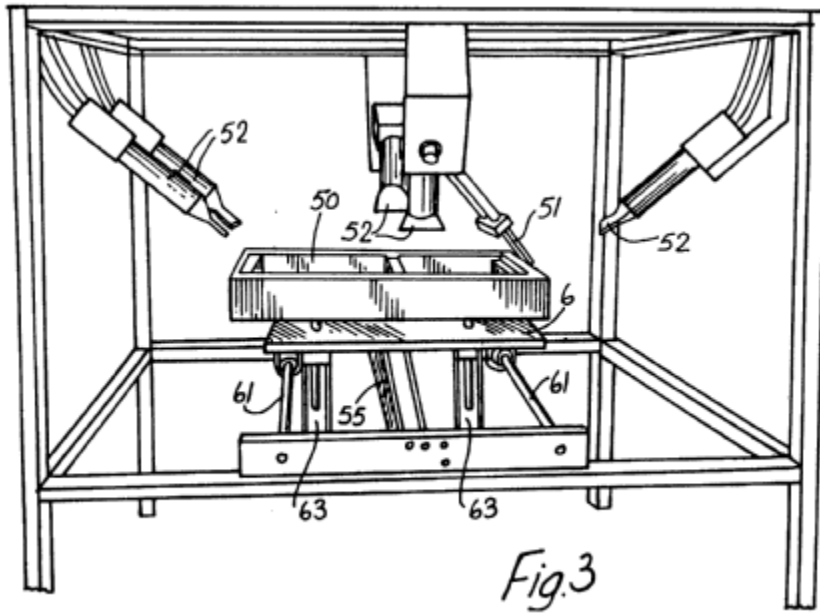
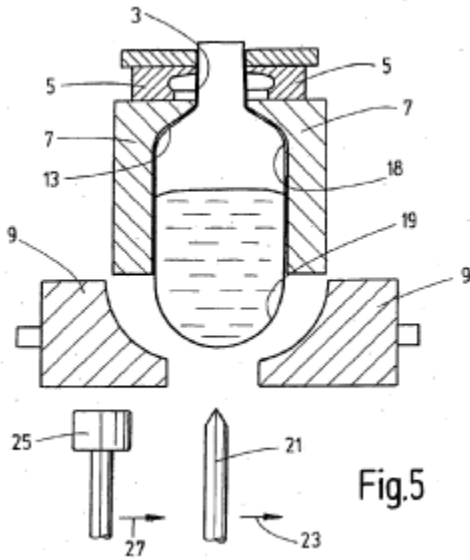
Definition statement

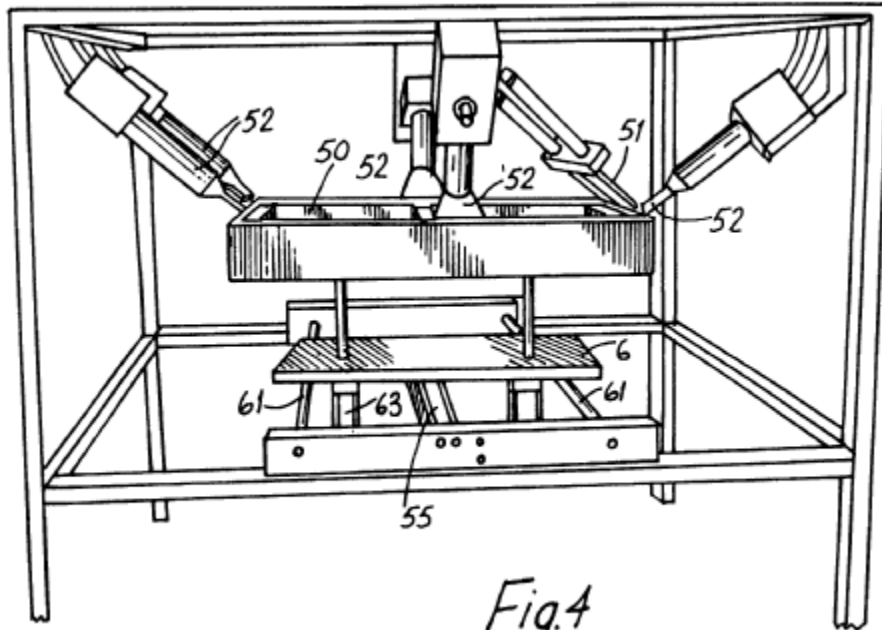
This place covers:

Removal of burrs, flash, or other unwanted moulding effects caused by the interaction of the blown article and the mould during the blowing process.

Illustrative example of subject matter classified in this group:





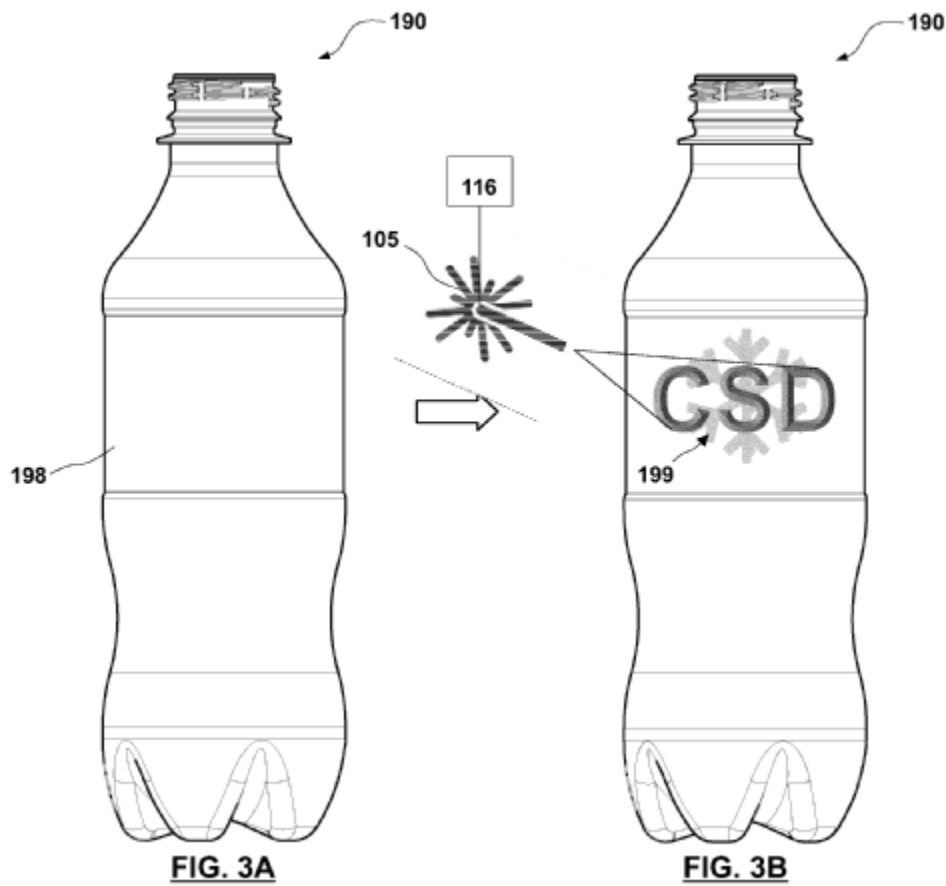


B29C 49/42828

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



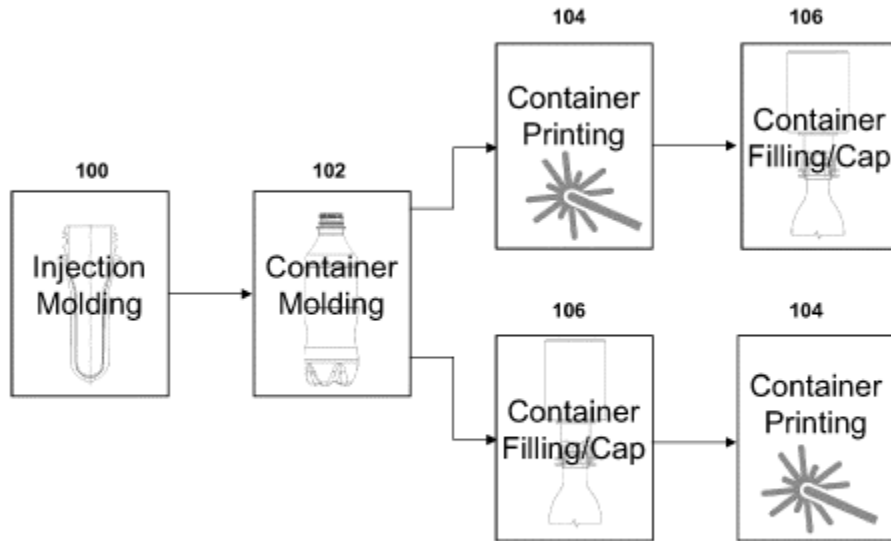


FIG. 4

B29C 49/4283

Definition statement

This place covers:

Deformation after the blow-moulding process.

Illustrative example of subject matter classified in this group:

Fig. 3A

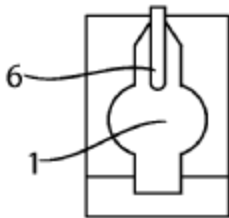


Fig. 3B



Fig. 3C

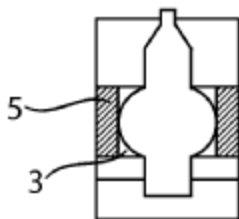


Fig. 3D



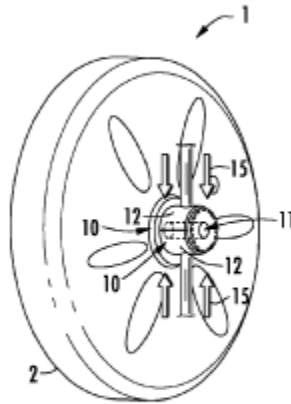
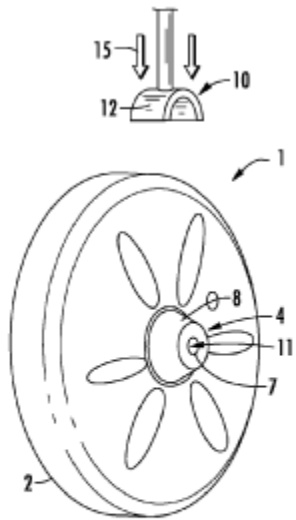


FIG. 3B

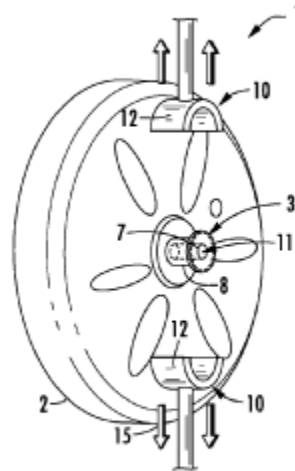


FIG. 3C



FIG. 3A

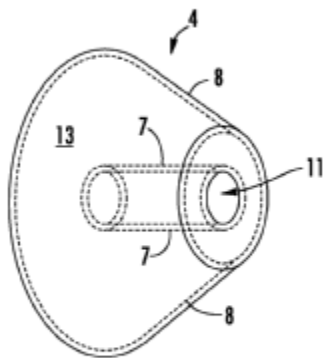


FIG. 4A

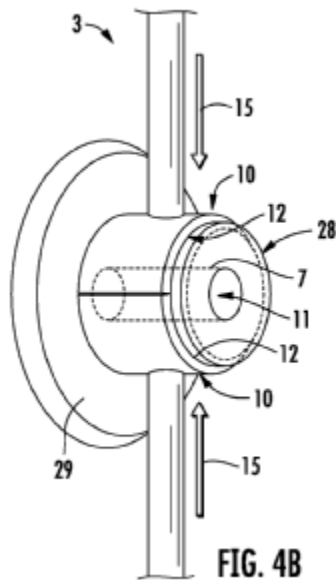


FIG. 4B

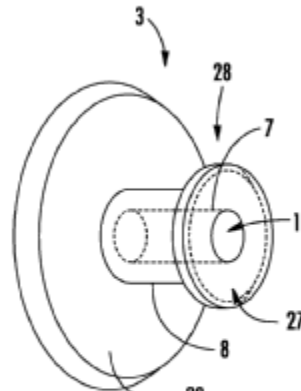


FIG. 4C

Fig. 2

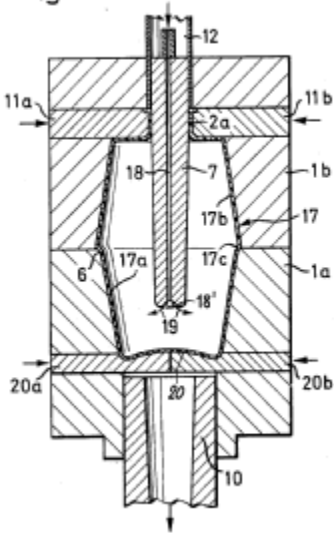
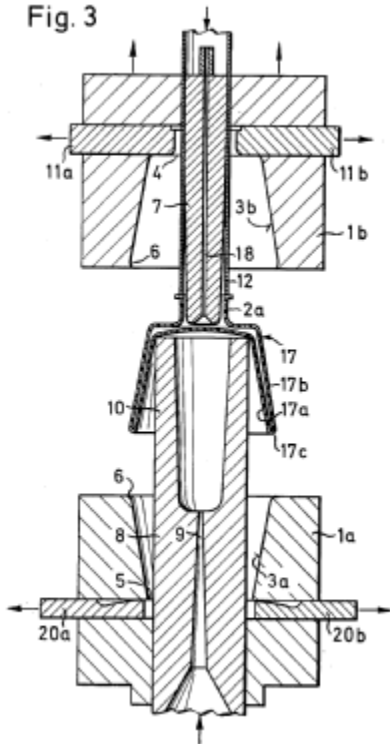
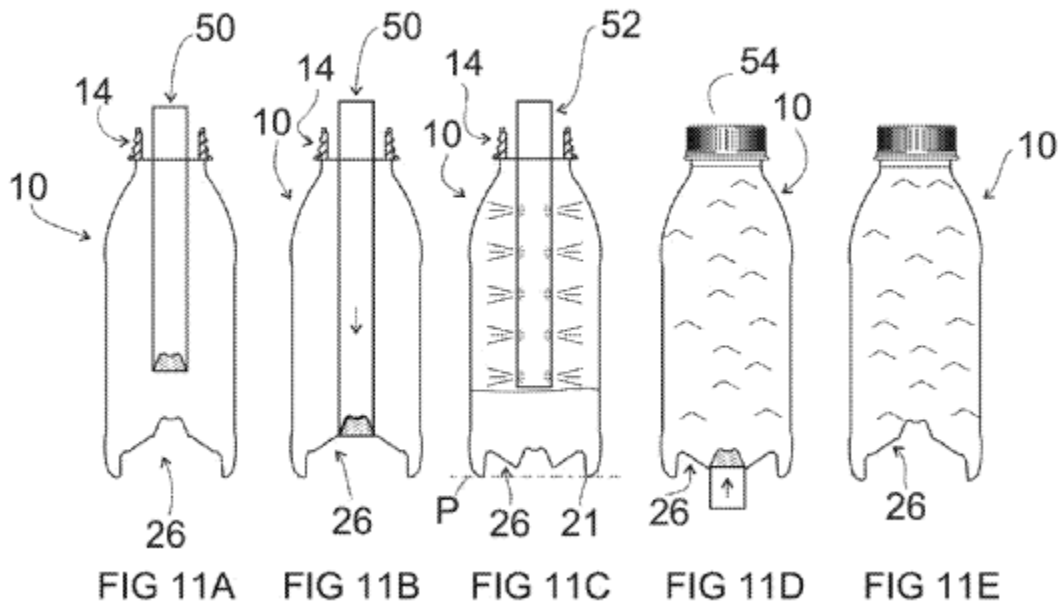
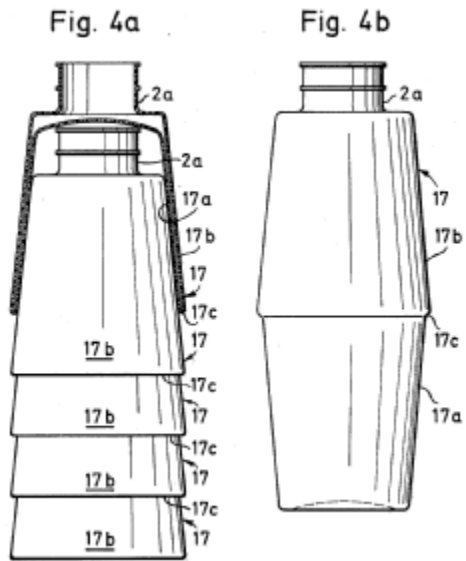


Fig. 3





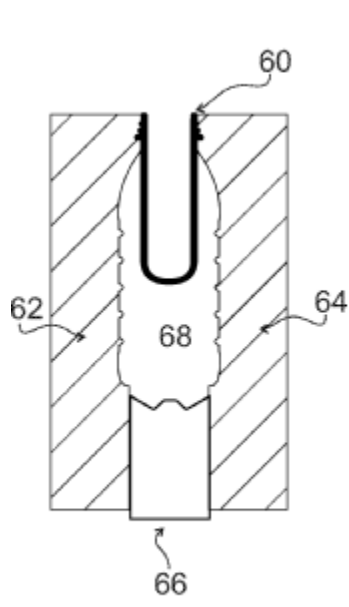


FIG. 12A

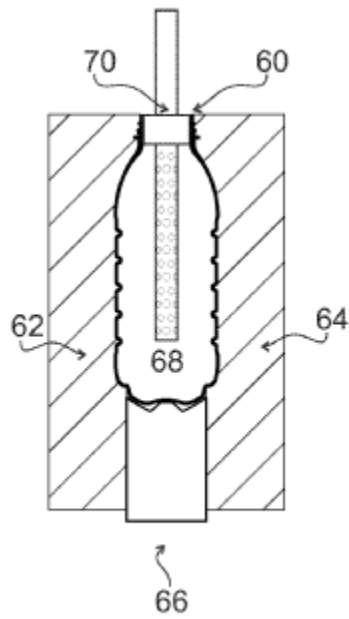


FIG. 12B

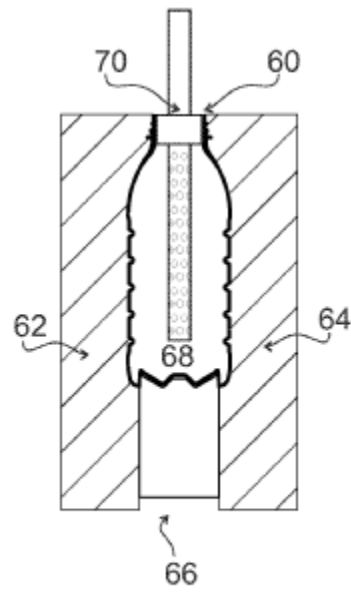


FIG. 12C

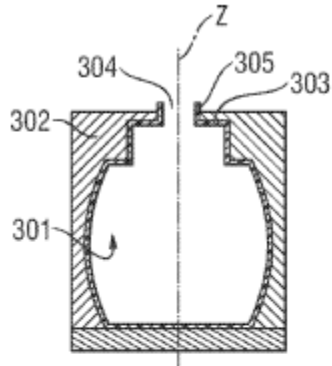


Fig. 2A

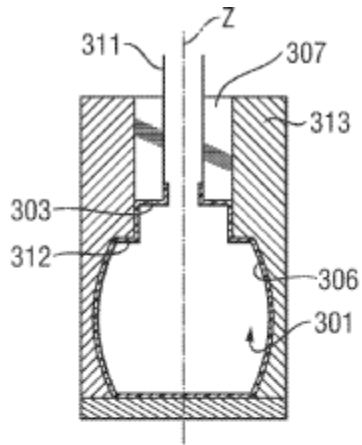


Fig. 2B

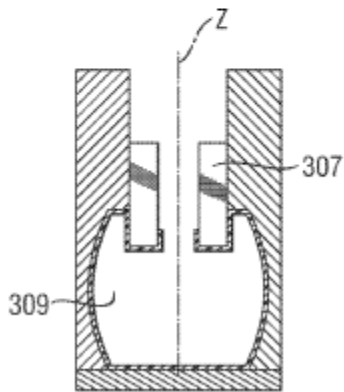


Fig. 2C

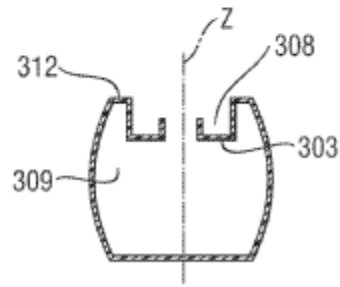


Fig. 2D

B29C 49/42834

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

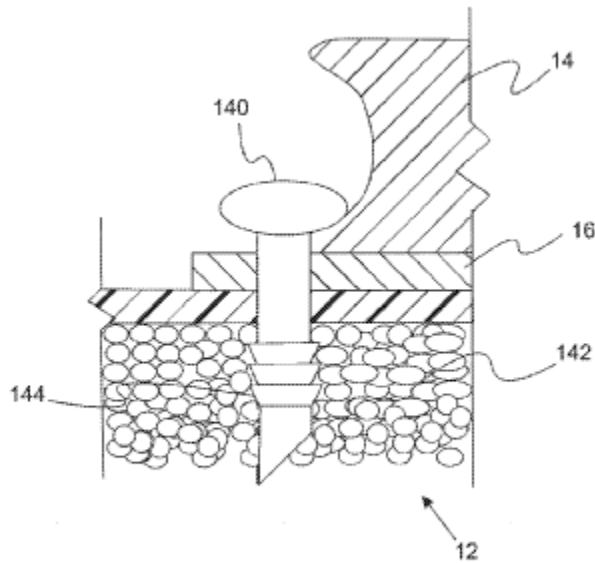


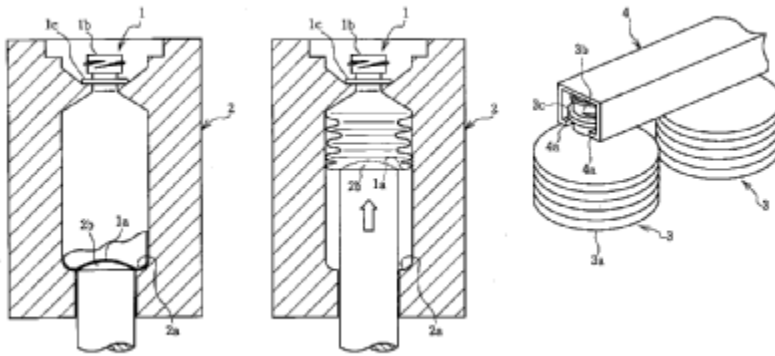
Fig. 7

B29C 49/42836

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:



B29C 2049/4296

Definition statement

This place covers:

Structures and operations associated with the sealing means that prevent blowing fluid from leaking.

Illustrative example of subject matter classified in this group:

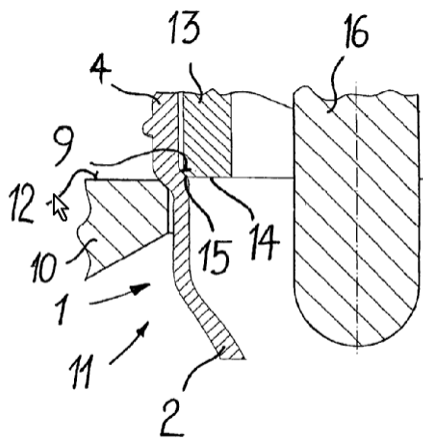


Fig. 2

The applied pressure force of the blow nozzle 13 is selected such that the outside edge 15 of the blow nozzle 13 sinks somewhat into the conical surface 9. This improves sealing.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 2049/4298

Definition statement

This place covers:

Structures associated with sealing spaces to avoid contamination.

B29C 2049/431

Definition statement

This place covers:

Structures associated with the sealing means that reduce or prevent air from entering the mould.

B29C 2049/4698

Definition statement

This place covers:

Methods and apparatus that create a pressure difference.

B29C 49/4812

Definition statement

This place covers:

Where opposing wall parts of the parisons or preforms are joined to each other.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/48185

Definition statement

This place covers:

With a plurality of mould cavities.

B29C 49/4819

Definition statement

This place covers:

Having a plurality of mould cavities with different shapes or sizes.

B29C 2049/4854

Definition statement

This place covers:

Having means for heating or cooling from inside the mould cavity.

B29C 2049/48615

Definition statement

This place covers:

With means or methods for aligning neck portions of bottle producing moulds.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 2049/4862

Definition statement

This place covers:

Means or methods for aligning mould part positions.

B29C 2049/4863

Definition statement

This place covers:

With mould identification means.

B29C 49/487105

Definition statement

This place covers:

Where the mould is characterised by the manufacturing process of the mould.

B29C 2049/4881

Definition statement

This place covers:

Moulds having a mandrel or core between the mould halves.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 2049/48825

Definition statement

This place covers:

Moulds that are asymmetric allowing the parison to be off center.

B29C 2049/4883

Definition statement

This place covers:

Moulds having cavity portions which do not contact the preform.

B29C 49/5602

Definition statement

This place covers:

Opening or closing the mould with the use of cams.

B29C 49/5603

Definition statement

This place covers:

Opening or closing the mould with the use of a toggle mechanism.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/5604

Definition statement

This place covers:

Opening or closing the mould with the use of a spindle nut mechanism.

B29C 49/5605

Definition statement

This place covers:

Opening or closing the mould hydraulically.

B29C 49/5606

Definition statement

This place covers:

Opening or closing the mould pneumatically.

B29C 49/5607

Definition statement

This place covers:

Opening or closing the mould electrically.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/561

Definition statement

This place covers:

Opening or closing of the mould is characterised by the opening or closing speed.

B29C 49/5611

Definition statement

This place covers:

Opening or closing the mould by tilting movement of a mould part.

B29C 49/5612

Definition statement

This place covers:

Opening or closing the mould by movement of a bottom portion of the mould.

B29C 49/5613

Definition statement

This place covers:

Opening or closing the mould by movement of a connected mould part.

Illustrative example of subject matter classified in this group:

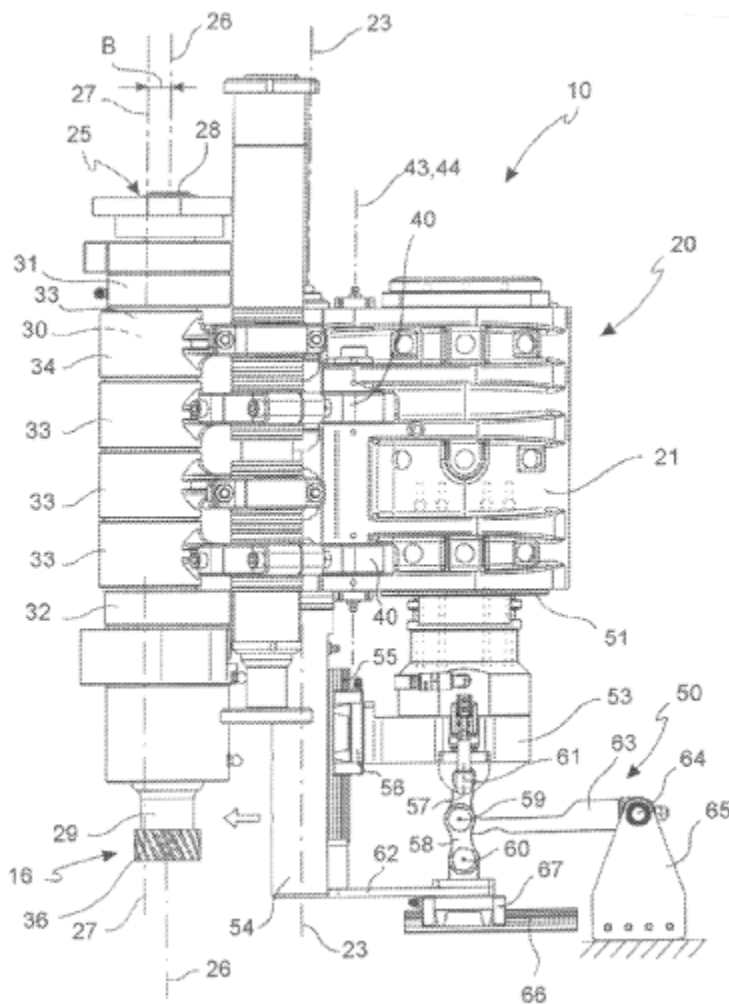


FIG. 6

DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/5614

Definition statement

This place covers:

Safety devices for use during opening or closing of the mould.

B29C 2049/5631

Definition statement

This place covers:

Hydraulically operated clamping means.

B29C 2049/5633

Definition statement

This place covers:

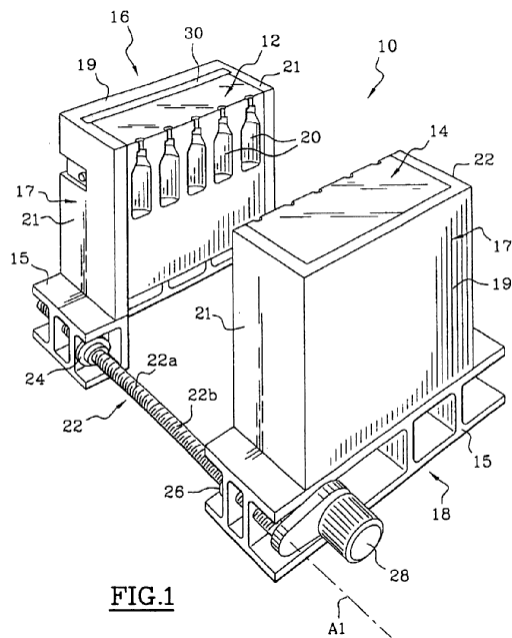
Pneumatically operated clamping means.

B29C 2049/5635**Definition statement**

This place covers:

Mould apparatus clamping elements which function in a manner that avoids or prevents deforming the mould.

Illustrative example of subject matter classified in this group:



As seen in Figure 1, Element 30 is a cushion which can be inflated such that it projects slightly past the rear face of the mould-half, at least on three sides. Thus, by inflating the cushion 30 with a fluid at a pressure substantially equal to or greater than that of the blow-moulding fluid, the resulting action of these two fluids on the mould-half is an action that pushes toward the other mould-half 14.

In the extrusion-blow-moulding process, pressures on the order of 10 bars are generally used. Also, when the mould has a large cavity or several cavities, the forces exerted by the fluid pressures can be quite large. However, the use of a flexible cushion makes it possible to ensure that the compensating pressure is distributed uniformly over the entire rear face of the mould-half. In this way, the force of the first mould-half 12 applied against the second 14 is uniformly distributed over the entire joint plane of the mould,

DATE: MAY 1, 2022

PROJECT RP10424

without the need to use particularly rigid mould-halves or mould clamping units, which allows costs to be decreased.

B29C 2049/5636

Definition statement

This place covers:

A mould closing feature which also functions as the mould clamping feature.

Illustrative example of subject matter classified in this group:

To close the blow-mould and to hold it closed with a high force for a blow-moulding process, the electric motor is activated to drive the push mechanism. The push mechanism, preferably designed as a spindle drive, moves the push rod out of the push mechanism and the electric motor reaches the required torque. Directly after the blow-mould has been closed with high force by an elastic deformation, the braking device is activated to hold the push rod in a state of constantly maintained tension in its instantaneous position and to hold the blowing mould closed with a required closing force.

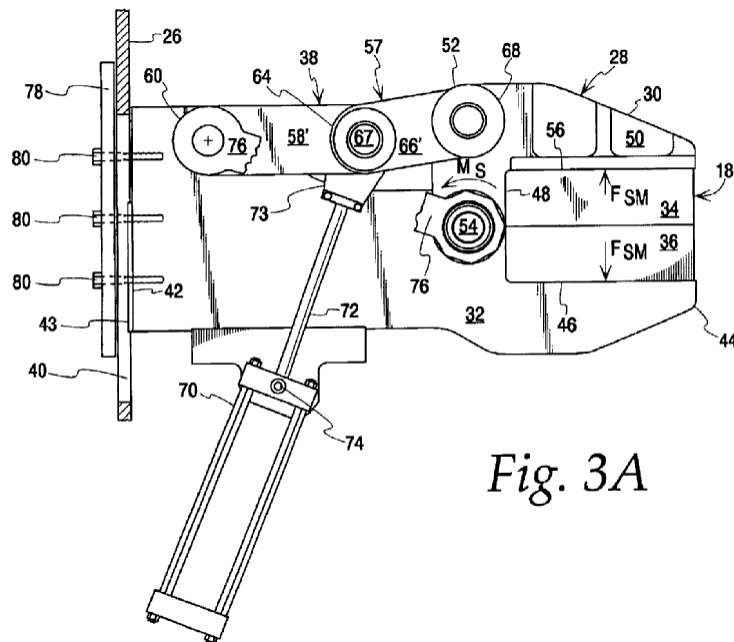


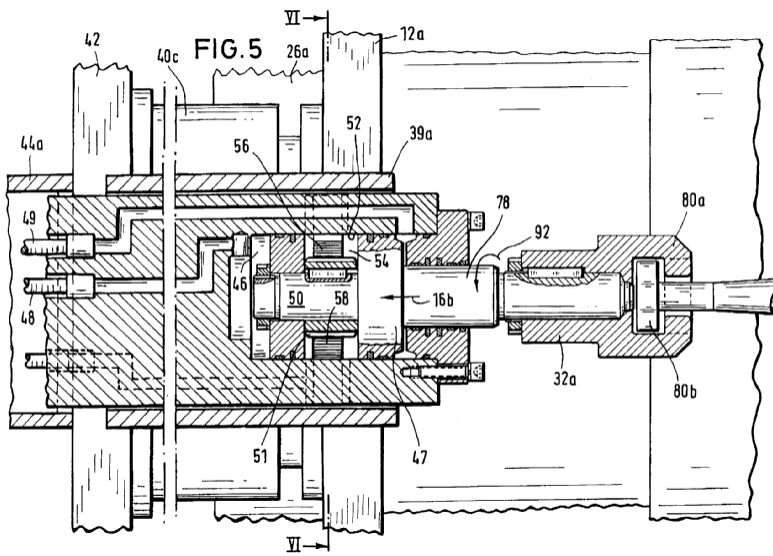
Fig. 3A

B29C 2049/5661**Definition statement**

This place covers:

A mould locking element which is operated mechanically.

Illustrative example of subject matter classified in this group:



The cross-section of the coupling member 80b which is to be introduced into and cooperate with the receiving coupling member 80a is so adapted to the cross-sectional shape of the opening in the receiving coupling member 80a so that, when the receiving coupling member 80a is in the appropriate angular position, the coupling member 80b can be introduced into the coupling member 80a through the opening therein, in the course of the mould-closing movement. Thereafter, the receiving coupling member 80a is rotated about its longitudinal axis or about the longitudinal axis of the locking portion, thus providing a positively locking connection between the two coupling members. That position is shown in FIG. 5.

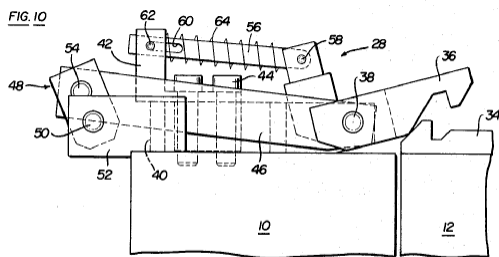
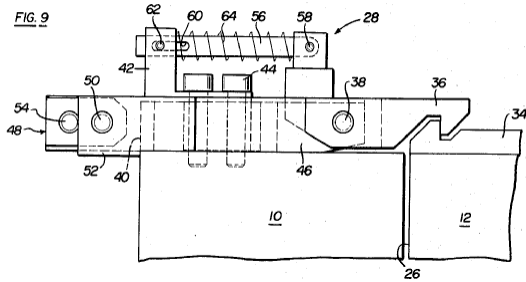
B29C 2049/5662

Definition statement

This place covers:

A mould locking element which includes a mechanically-operated latch feature.

Illustrative example of subject matter classified in this group:



B29C 2049/5664

Definition statement

This place covers:

A mould locking element which is a mechanically-operated translating pin.

Illustrative example of subject matter classified in this group:

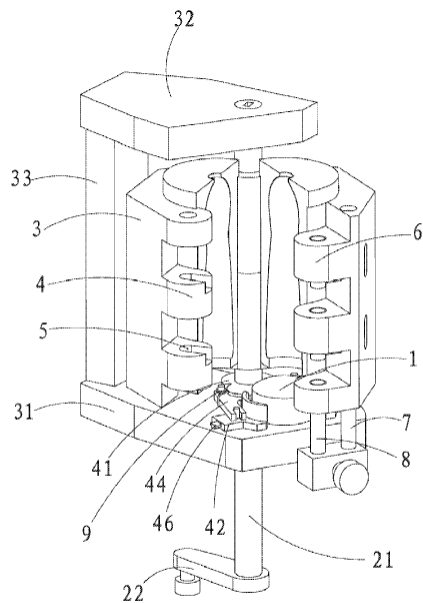


fig. 2

See reference sign 8

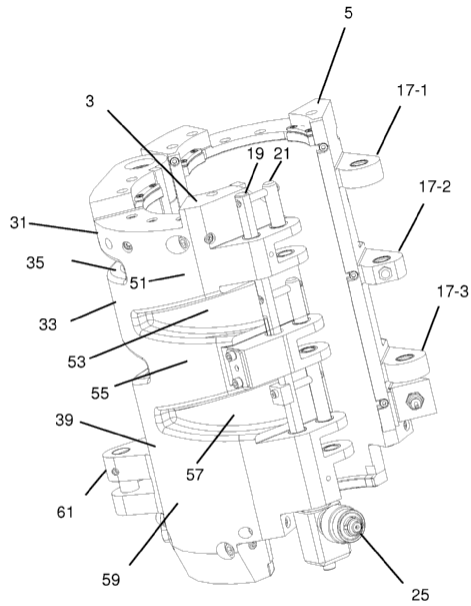


Figure 4

See reference sign 21

B29C 2049/5665

Definition statement

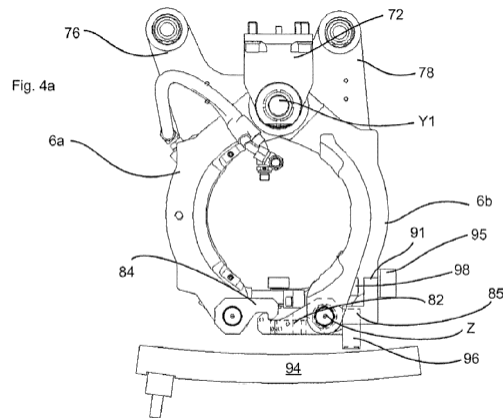
This place covers:

A mould locking element which is magnetically operated.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424



This figure shows a corresponding closed state of the blow-moulding station, i.e. a state in which the first locking element 82 engages in the second locking element 84. The reference number 95 designates a holding magnet which cooperates with a magnetizable element 91, which is likewise arranged in a fixed manner on the locking element 82, and in this way holds the first locking element in the locking position with a pre-set magnetic force. This holding magnet 95 thus constitutes the second magnetic element.

B29C 2049/5666

Definition statement

This place covers:

A mould locking element which is pneumatically operated.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424

rod 41 of the arrangement 40, when moved upwardly, engages with the underside of the lowermost locking section 42a of a series of end-abutting locking members 42 which are in the form of locking bars. The mould halves 1 and 2 are provided with clamps 3.

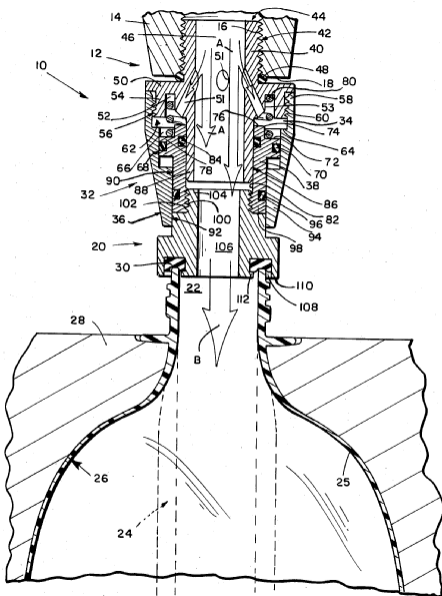
B29C 2049/5898

Definition statement

This place covers:

Control of the force of the attachment, or clamp applied, between the blowing element and the preform/parison.

Illustrative example of subject matter classified in this group:



After the seal 30 has contacted the upper lip of the parison 24 and the piston 38 moved upward against the biasing force of spring 80, a gaseous blowing medium, typically air, is quickly injected through outlet 14 and into axial passageway 46. The downwardly angled ports 51 extending from the axial passageway 46 through the inner wall 53 of chamber 34 causes a quick increase in pressure within the chamber 34. This increase in pressure within chamber 34 exerts a force on the annular pressure surface 72 of piston 38 causing it to press downwardly to ensure a complete and full seal by the sealing means 30 on the upper lip of opening 22.

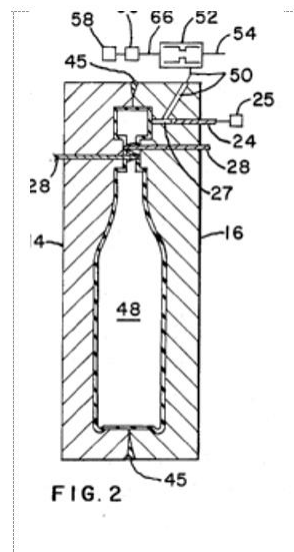
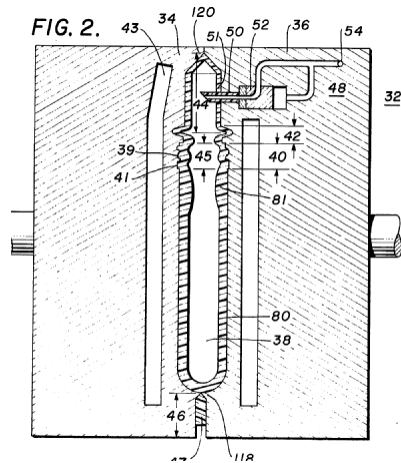
B29C 2049/6091

Definition statement

This place covers:

Blow needle placement such that any needle marks are avoided. This could include needle insertion in a sprue or other area apart from the article.

Illustrative example of subject matter classified in this group:



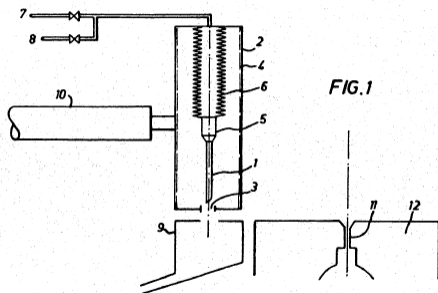
B29C 2049/6092

Definition statement

This place covers:

Processes or apparatus which include sterilizing the blowing needle.

Illustrative example of subject matter classified in this group:



An apparatus including an element for passing steam through said needle in the sterilization position before the sterile gas is passed through the needle. In operation, the needle 1 is retracted into chamber 2 and is initially connected to the steam system 8 in the position shown in FIG. 1 so as to sterilize the entire blowing circuit.

B29C 2049/6271**Definition statement**

This place covers:

Mould venting element which vents the blowing means, possibly including use of a damper or silencer.

Illustrative example of subject matter classified in this group:

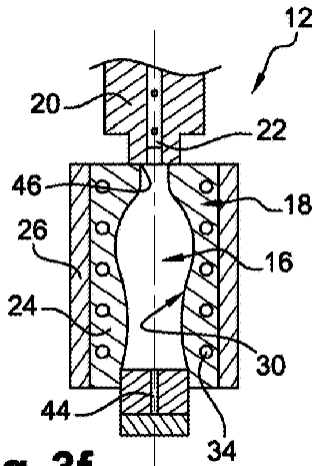


Fig. 3f

As illustrated in FIG. 3f, during and after the step for cooling the mould 18, the cooling fluid—when it is formed by the compressed air escapes through said opening 46 to be evacuated through an exhaust device (not shown) that the blow-moulding means 20 comprise and that commonly comprises a sound suppressor. Noise linked to the expansion of compressed air and then to its evacuation is thus limited.

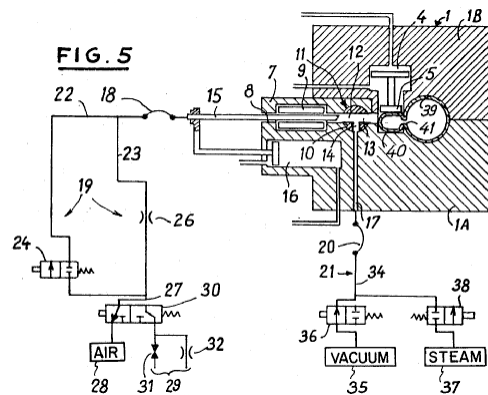
Advantageously, the evacuation of the cooling air from the mould 18 through such a sound suppressor makes it possible to control the pressure inside the moulding cavity 16, which makes it possible to raise the blow-moulding means 20 to the upper position and then to open again the moulding unit 12.

B29C 2049/6272**Definition statement**

This place covers:

Mould venting element which vents the blowing means using vacuum pressure.

Illustrative example of subject matter classified in this group:



After blowing the receptacle, the supply of high pressure sterile air is interrupted by switching distributor 30. The pressurized sterile blowing air in the receptacle is then evacuated through distributor 24 and valve 31. After evacuation distributor 24 is closed, the needle is withdrawn from the mould cavity by jack 16, distributor 30 is reversed and distributor 36 is opened. The coupling of the vacuum source 35 ensures complete evacuation.

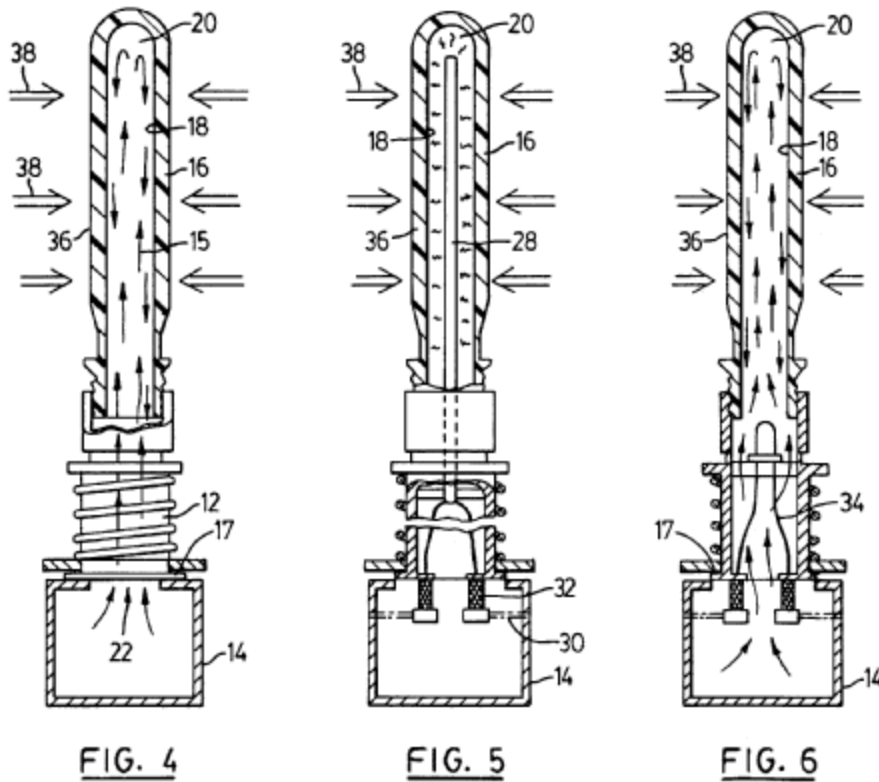
B29C 49/6419

Definition statement

This place covers:

Heating the preforms from the inside using media such as hot air or interior heating element.

Illustrative example of subject matter classified in this group:



B29C 49/64195

Definition statement

This place covers:

Heating the preforms via a heated mould.

B29C 49/642

Definition statement

This place covers:

Heating preforms to shrink them into an intermediate product.

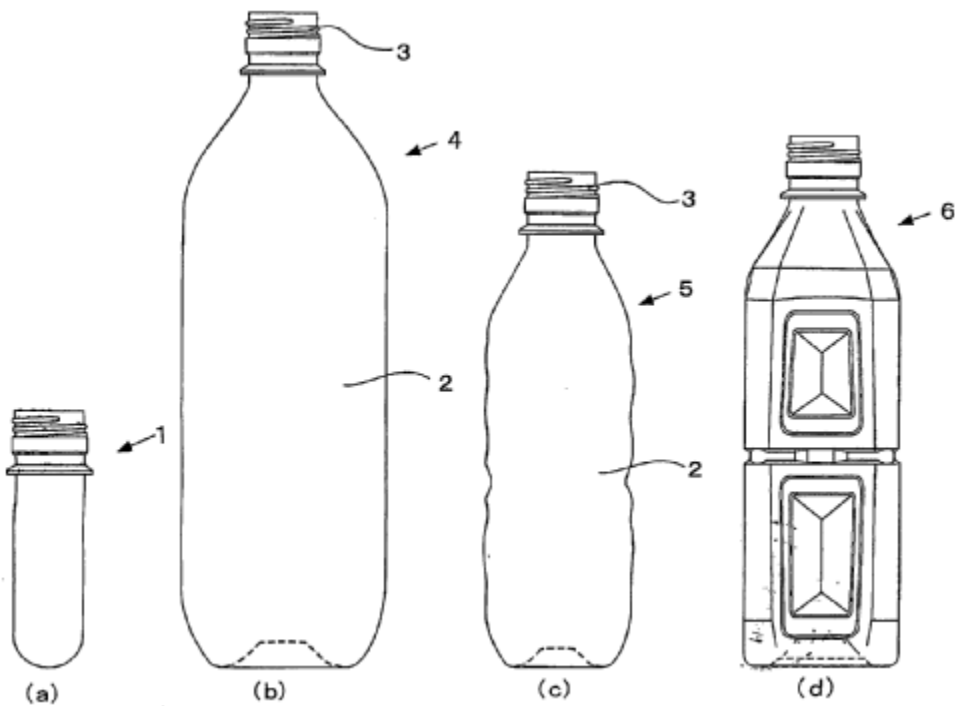


Fig. 1

B29C 49/643

Definition statement

This place covers:

Cooling preforms from the inside using media such as cool air or fluid.

Illustrative example of subject matter classified in this group:

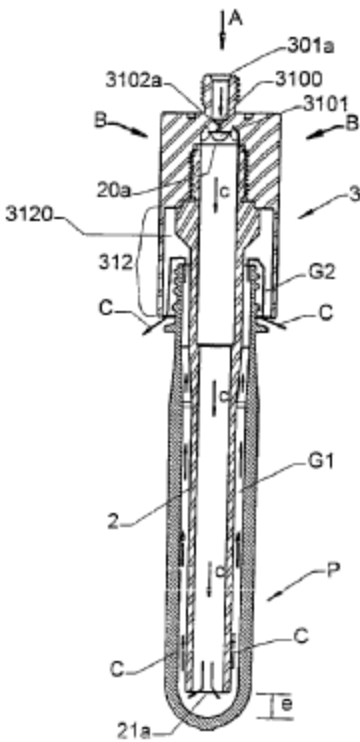


FIG.2

B29C 49/6435

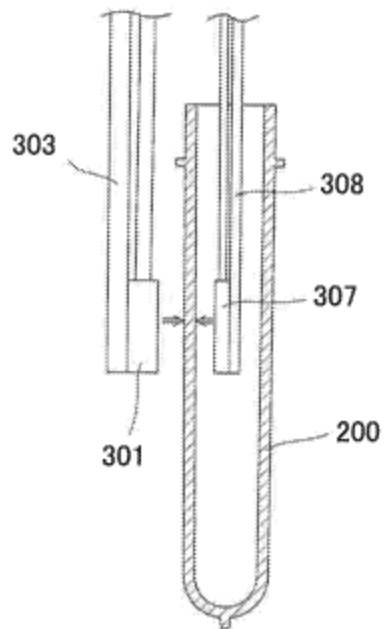
Definition statement

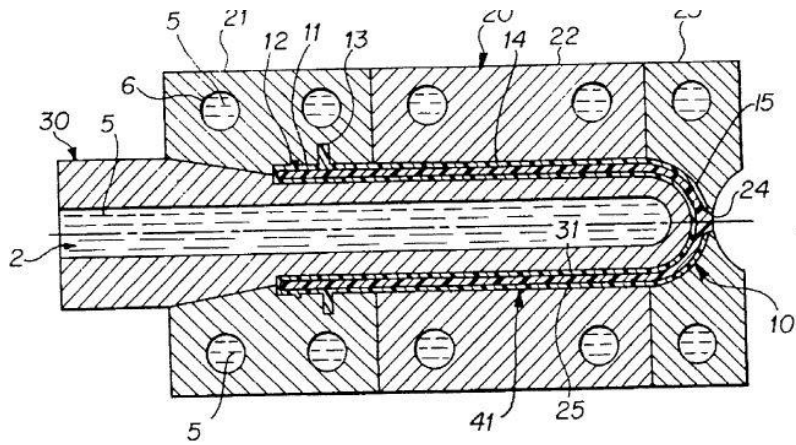
This place covers:

Cooling preforms from the outside using media cool air or fluid in mould channels.

Illustrative example of subject matter classified in this group:

FIG. 5





B29C 49/645

Definition statement

This place covers:

Cooling preform neck region.

Illustrative example of subject matter classified in this group:

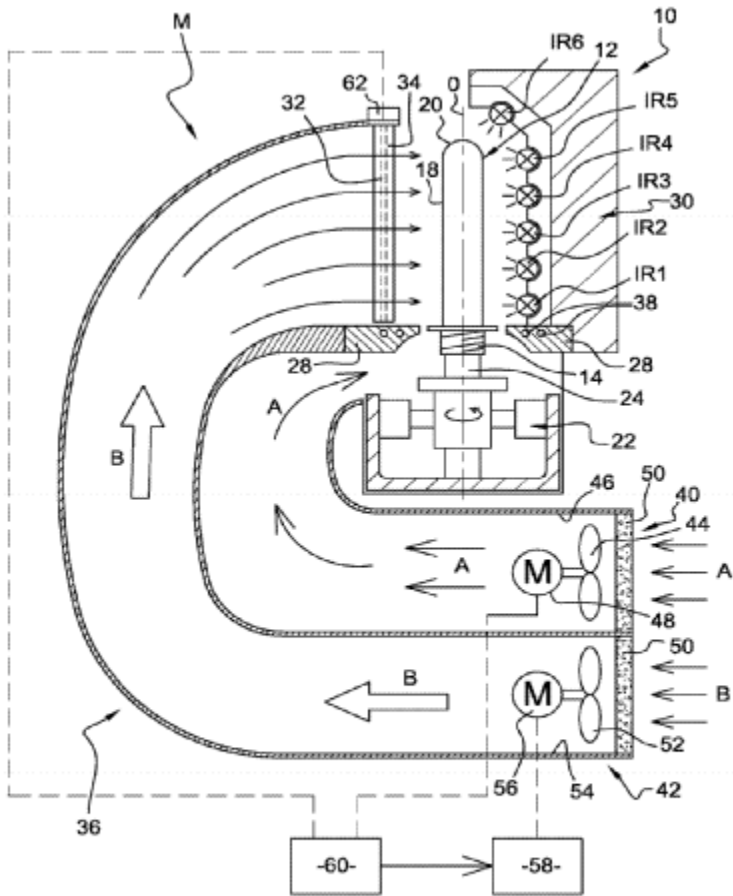


Fig. 2

B29C 49/6452

Definition statement

This place covers:

Heating preform neck region.

Illustrative example of subject matter classified in this group:

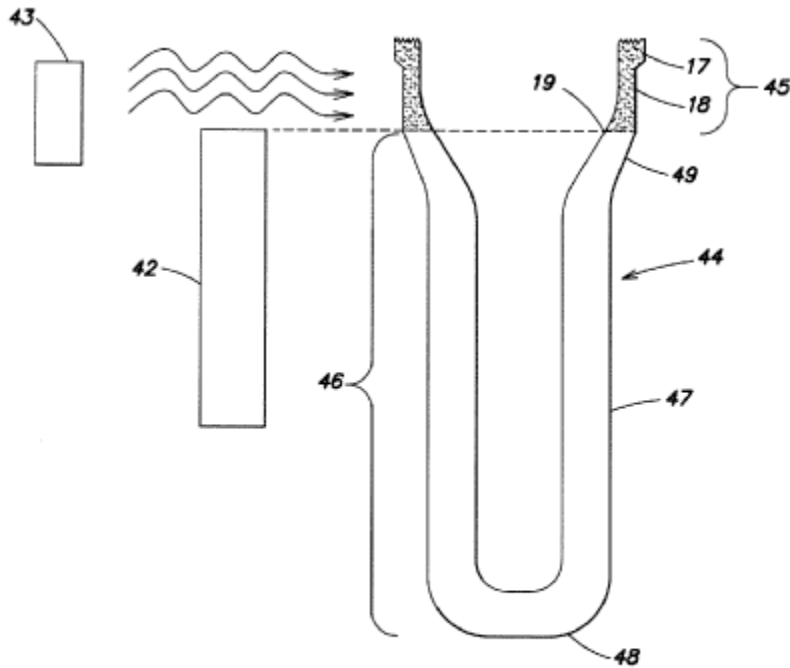


FIG. 4

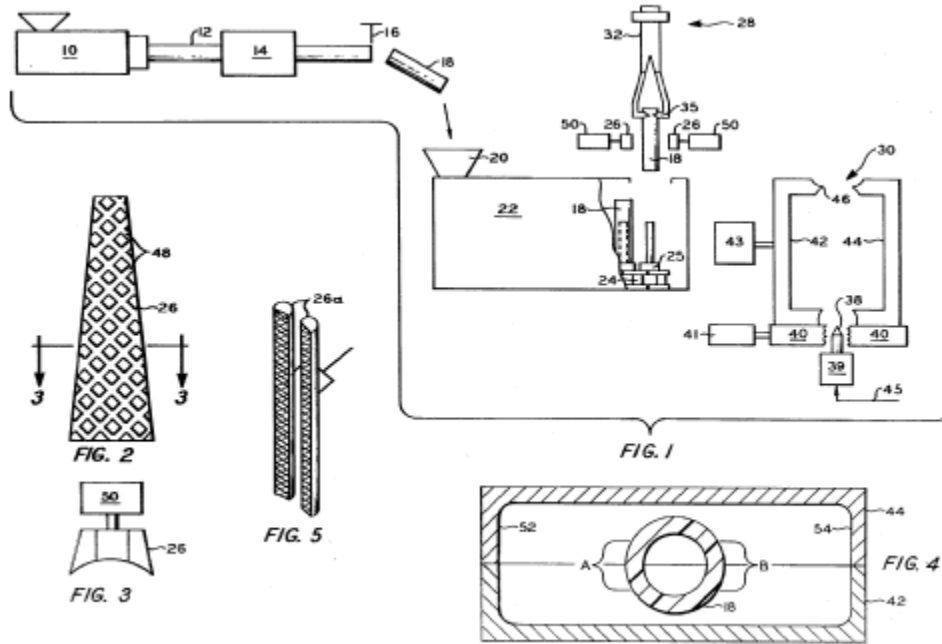
B29C 49/6458

Definition statement

This place covers:

Heating system/process for preforms such that there is a difference in temperature through the circumference of the preform, e.g. one radial location of the preform would be heated to a temperature that would differ from a temperature of second radial location.

Illustrative example of subject matter classified in this group:



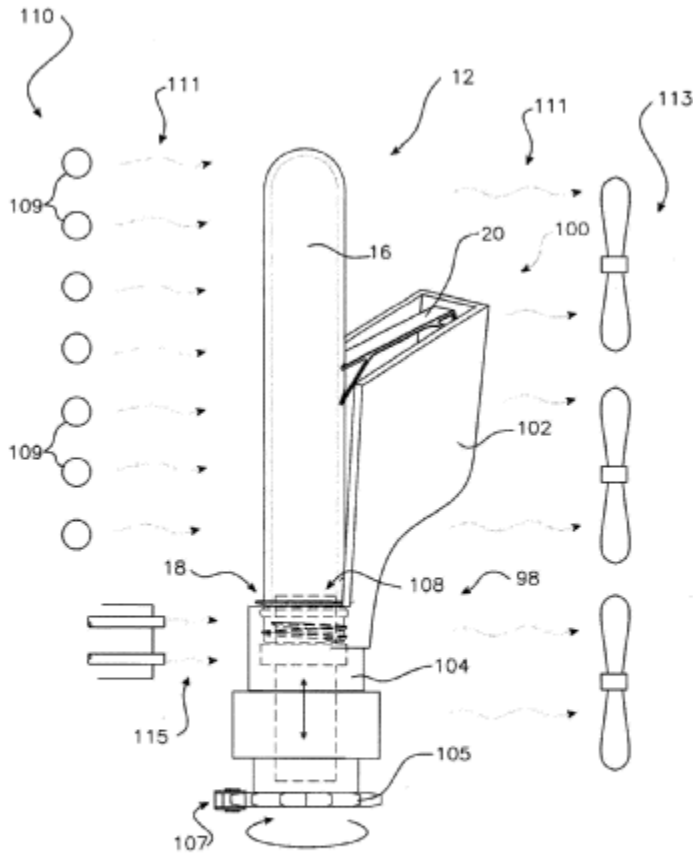
B29C 49/6462

Definition statement

This place covers:

Heating including providing a heat shield of some sort which protects desired sections of the preform during heating, e.g. a handle or neck.

Illustrative example of subject matter classified in this group:



B29C 49/6464

Definition statement

This place covers:

Heating a preform including using an element which is adapted to engage in contact with a surface of the preform to transfer heat thereto.

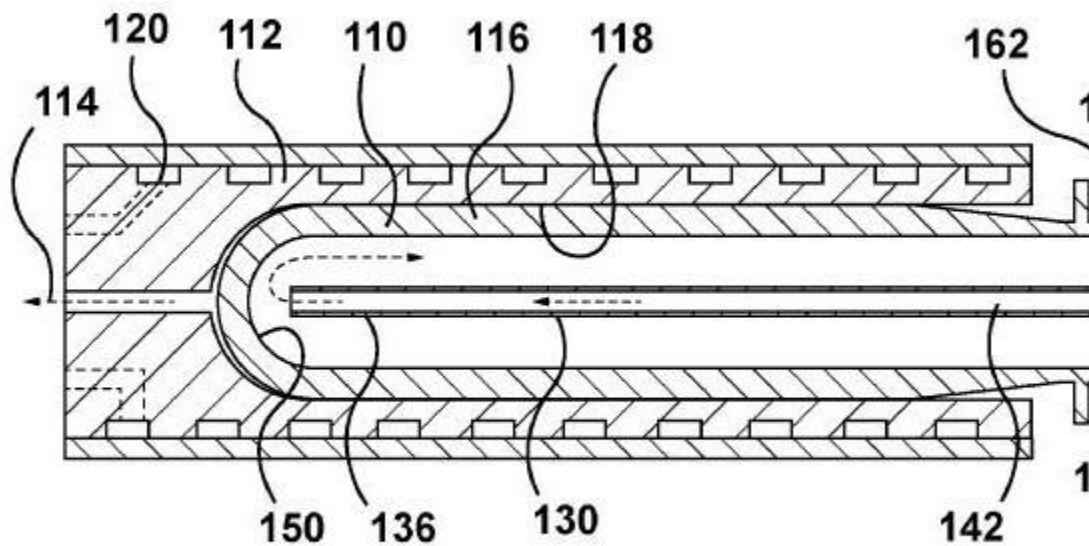
B29C 49/6465

Definition statement

This place covers:

Cooling preforms including maintaining contact of a surface of the preform with interior corresponding surface of a cooling sleeve.

Illustrative example of subject matter classified in this group:



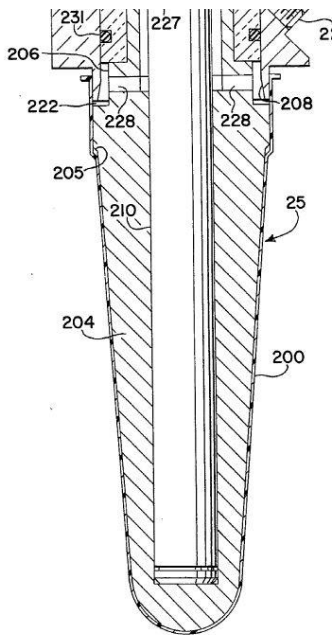
B29C 49/6466

Definition statement

This place covers:

Temperature conditioning of preforms via contact on the preform interior with a heating or cooling mandrel.

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/6467

Definition statement

This place covers:

Temperature conditioning of preforms via contact on the preform exterior with a corresponding heating or cooling element.

B29C 49/648

Definition statement

This place covers:

Temperature control/adjustment of preforms in parisons which occurs throughout more than one stage or process.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424

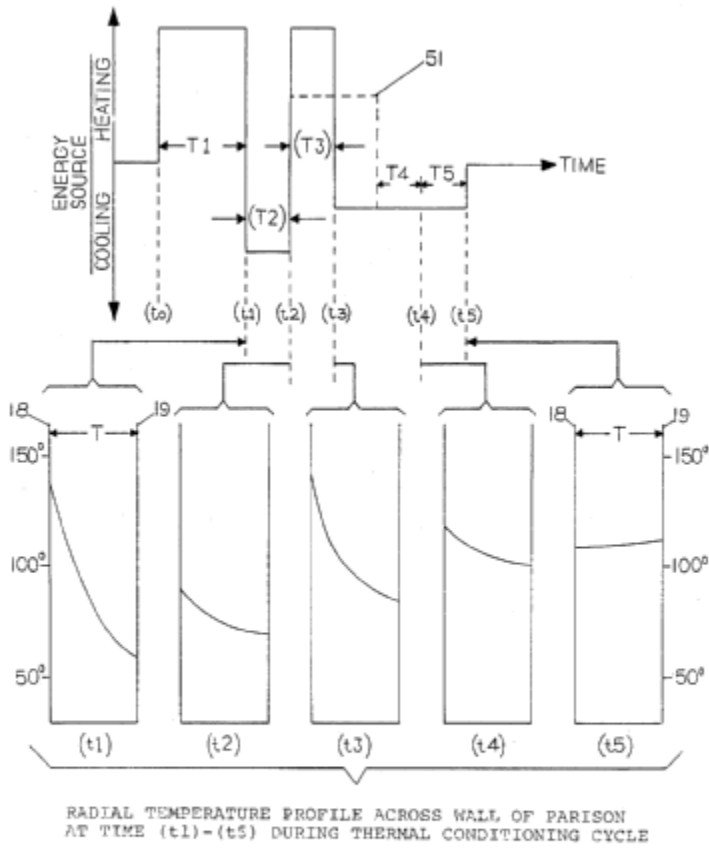


FIG. 5

DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/6605

Definition statement

This place covers:

Heating the article after a moulding step, e.g. in preparation for hot fill or post-processing steps.

B29C 49/66055

Definition statement

This place covers:

Heating a blow-moulded article including controlling the pressure during heating, which could function to avoid shrinkage or to induce particular article features.

B29C 2049/6606

Definition statement

This place covers:

Cooling a blow-moulded article, e.g. using a water bath or spray, cooled air, refrigerated cabinet.

B29C 2049/671

Definition statement

This place covers:

Thermally conditioning a blow-moulded article including affecting its temperature outside of the mould during transport or further processing.

B29C 49/681

Definition statement

This place covers:

An oven which includes a cavity designed to receive and heat a preform/parison. Such a cavity could also have locations which are designed to cool or not heat specific locations of the preform/parison.

Illustrative example of subject matter classified in this group:

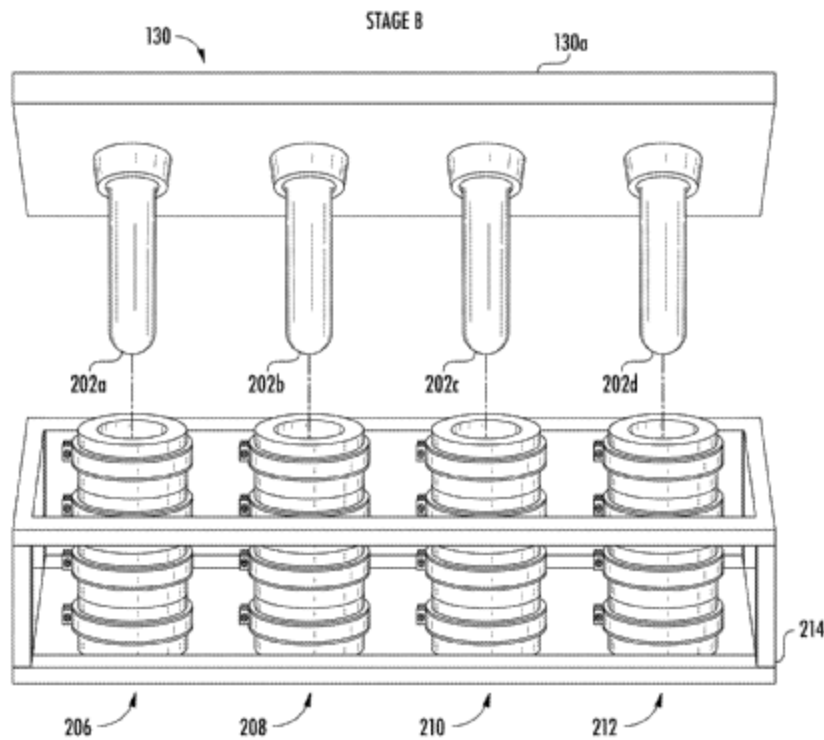


FIG. 6A

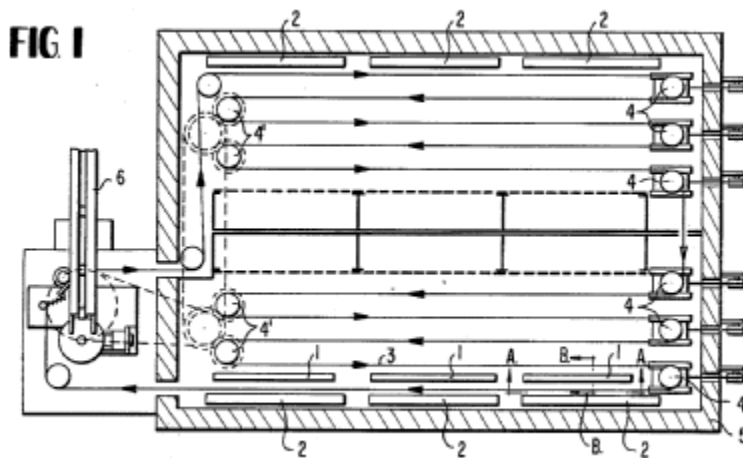
B29C 49/682

Definition statement

This place covers:

An oven designed to thermally condition preforms/parisons which includes a distinctive conveyance path for such thermal conditioning, e.g. sinusoidal.

Illustrative example of subject matter classified in this group:



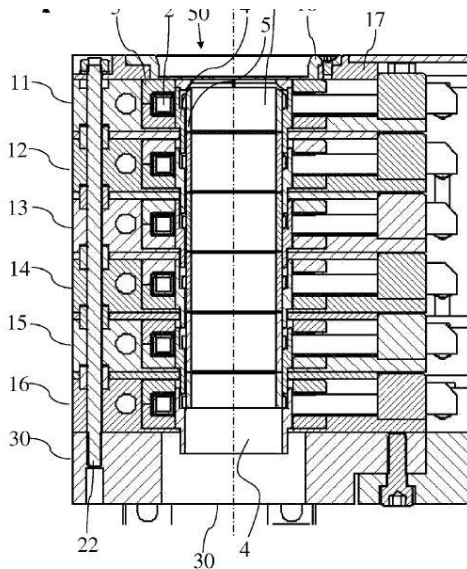
B29C 49/6825

Definition statement

This place covers:

An oven designed to thermally condition preforms/parisons which includes elements which are exchangeable, and the process of mounting, exchanging, or centering the oven parts.

Illustrative example of subject matter classified in this group:



Heating modules which are exchangeable or interchangeable (elements 11-16 in Figure).

B29C 49/683

Definition statement

This place covers:

An oven designed to thermally condition preforms/parisons which includes elements which are adjustable in quantity, position, or other ways.

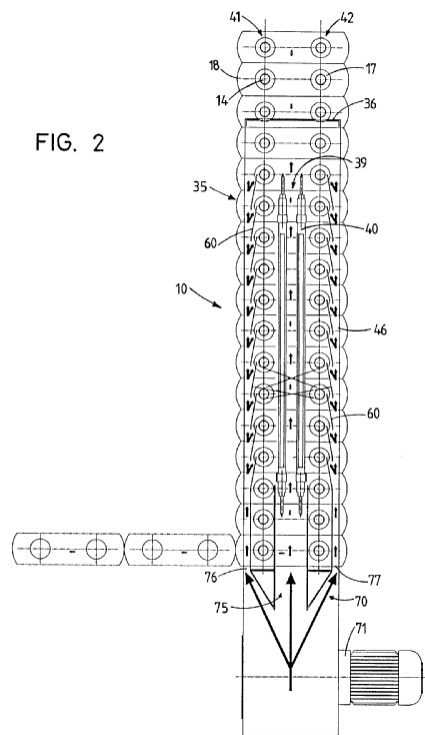
B29C49/6835

Definition statement

This place covers:

An oven designed to thermally condition preforms/parisons which includes elements which are reflective.

Illustrative example of subject matter classified in this group:



A device that comprises reflectors (60) arranged in an external position relative to the heating tubes (40) and to the preforms (14) and so shaped as to reflect the heating radiation emitted by the heating tubes (40) disposed nearest the reflectors (60) in the direction of the preforms (14) of the farthest row of preforms through the free space between two successive preforms of the nearest row.

B29C49/684

Definition statement

This place covers:

Heating in an oven which includes masking elements that shield desired parts of a preform therein.

Illustrative example of subject matter classified in this group:

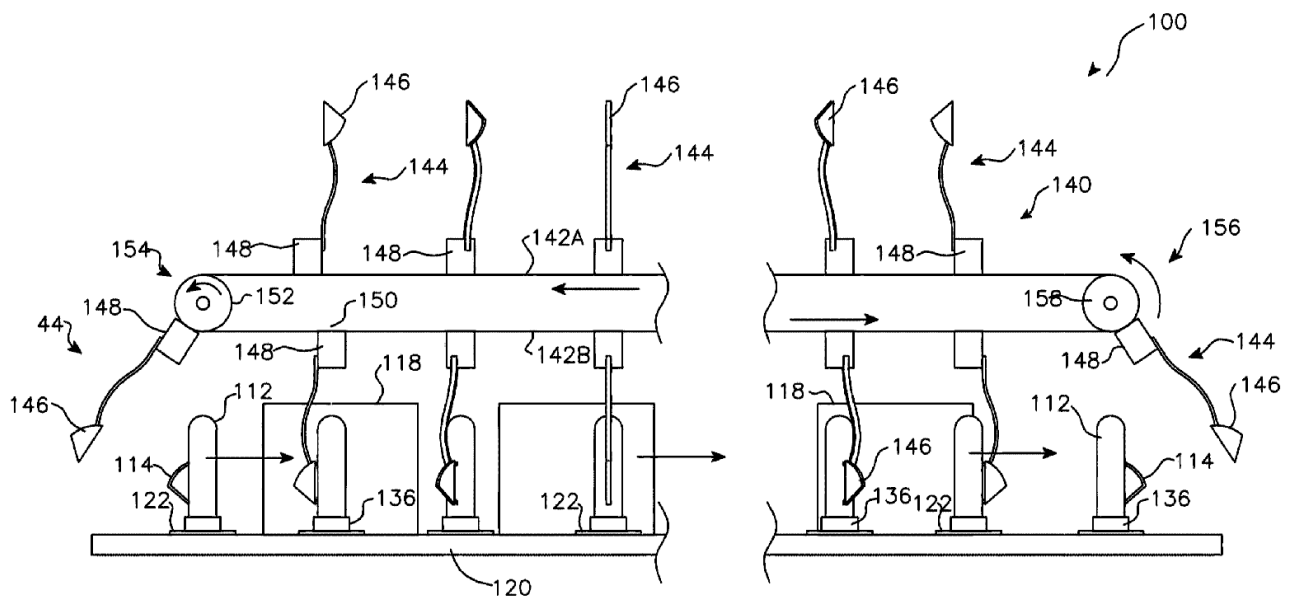


Fig. 3

B29C 49/6845**Definition statement**

This place covers:

Heating in an oven which includes ventilation elements.

Illustrative example of subject matter classified in this group:

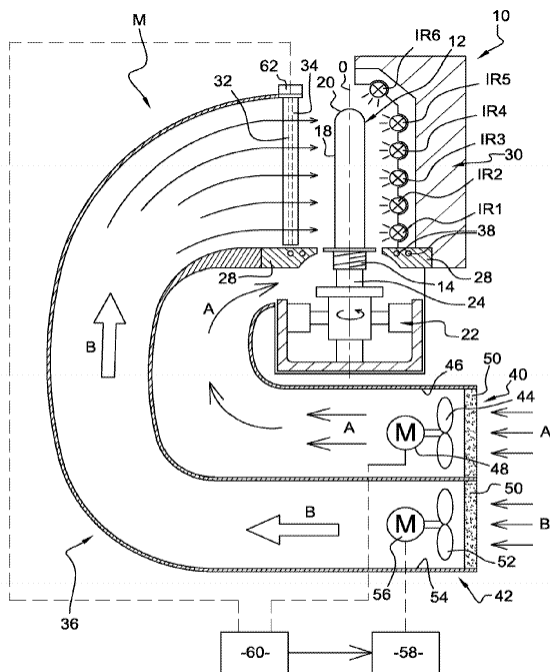


Fig. 2 $\begin{matrix} V \\ \uparrow \\ L \rightarrow T \end{matrix}$

Oven (10) for the heat treatment of thermoplastic preforms (12) each respectively comprising a first part (14, 16) in its definitive shape and a second part (18, 20) intended to be heated by heating means (30) arranged along at least part of a determined heating path followed by the preforms (12) travelling through the oven, the said oven (10) comprising a cooling system (36) capable respectively of cooling the first parts (14, 16) and the second parts (18, 20) of the preforms. The cooling system (36) comprises at

least one cooling device (42) capable of air-cooling at least the second part (18, 20) of the preforms (12), the said cooling device (42) comprising at least ventilation means (52) capable of delivering a given flow rate of cooling air and means (58, 64) for selectively varying, along the heating path of the preforms (12), at least the cooling airflow rate delivered by the said ventilation means (52) for cooling the said second parts (18,20) of the preforms (12).

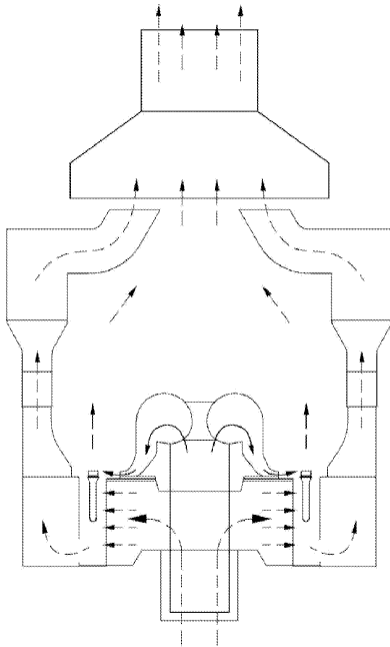


Fig. 3

A bottle blank heating air channel for a bottle blowing machine, wherein a heating box is provided, wherein the heating box is set on the opposite side of the bottle body air channel air outlet, wherein a space for the bottle plank is formed between the heating box and opposite side of the bottle body air channel air outlet, wherein a ventilating channel is provided on the heating box, and wherein the air outlet of the ventilating channel is connected to the air inlet of the bottle body air outlet channel.

B29C 49/685

Definition statement

This place covers:

Heating in an oven which includes preform rotation relative to the heating elements.

Illustrative example of subject matter classified in this group:

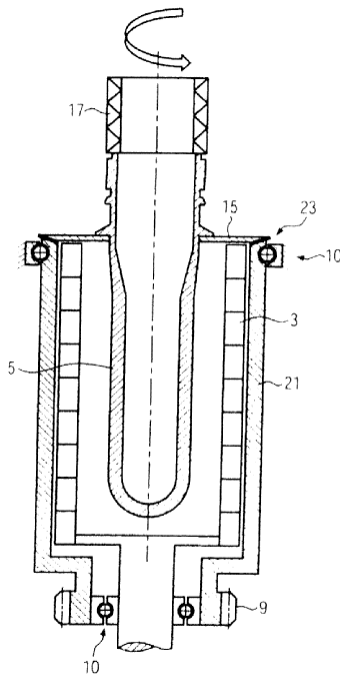


FIG. 4

Furnace for conditioning preforms, in particular for stretch blow-moulding plastic containers, comprising a plurality of heating chambers rotating in a circle for heating one preform each with infrared radiation, holding devices for holding the preforms during heating such that a section of the preform to be conditioned is arranged in a heating chamber, and a section of the preform not to be conditioned is arranged outside the heating chamber.

DATE: MAY 1, 2022

PROJECT RP10424

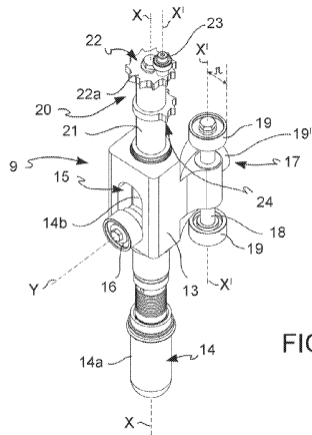


FIG. 3

An oven for blowing or stretch-blowing preforms to provide containers with oval section, comprising a path for the preforms, a transfer system of the preforms from an upstream transport system upstream of the oven and a transfer system of the heated preforms from the oven to a downstream transport system, wherein a plurality of mandrels are slidingly carried along the path, the mandrels configured to temporarily engage with the preforms to conduct the preforms along the path, the oven comprising at least one first heating module and at least one second heating module, wherein the oven comprises a rotator for rotating said preforms by 180°, said rotator being in median position of said at least one second heating module.

B29C 49/6855

Definition statement

This place covers:

Heating in an oven which includes the features of cooling the heating elements so as to prevent overheating of the apparatus or element to be heated.

Illustrative example of subject matter classified in this group:

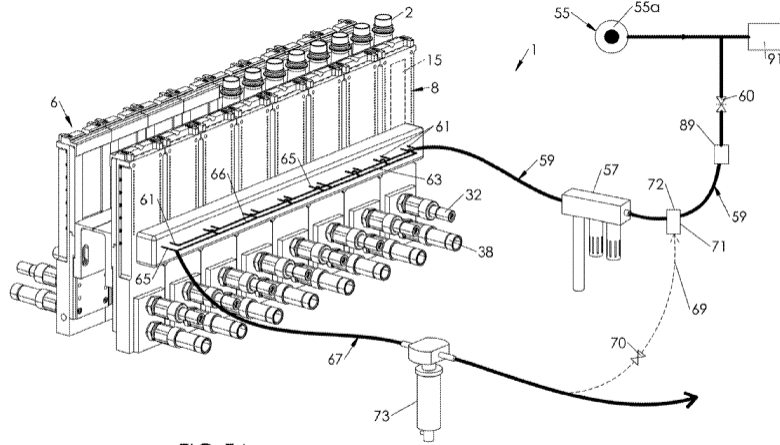
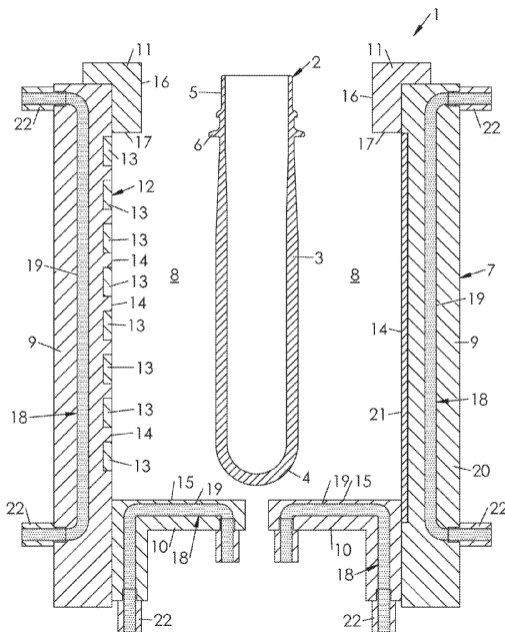


FIG. 5A



The unit 1 includes a plurality of heaters 13, and a cooling circuit 18 inside a frame 7. The cooling circuit 18 limits the amount of heat produced by the heaters 13.

B29C 2049/7831

Definition statement

This place covers:

Control of a material-shaping process including controlling blowing pressure values/ranges.

Illustrative example of subject matter classified in this group:

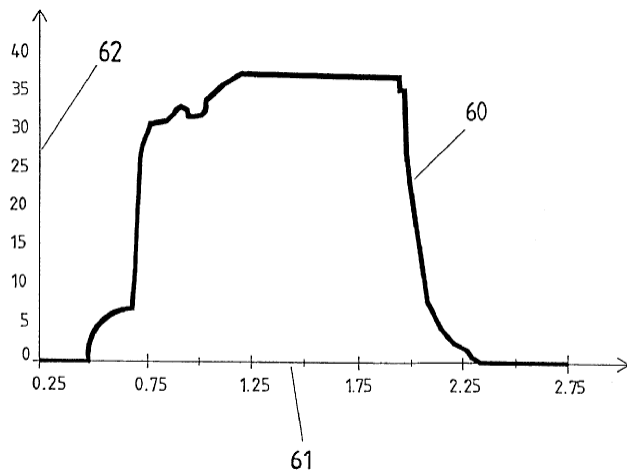


Fig. 8

A process wherein the pressure during the preliminary blowing phase has a value in the interval of 10 bar to 25 bar and wherein the pressure during the primary blowing phase has a value in the interval of 25 bar to 40 bar.

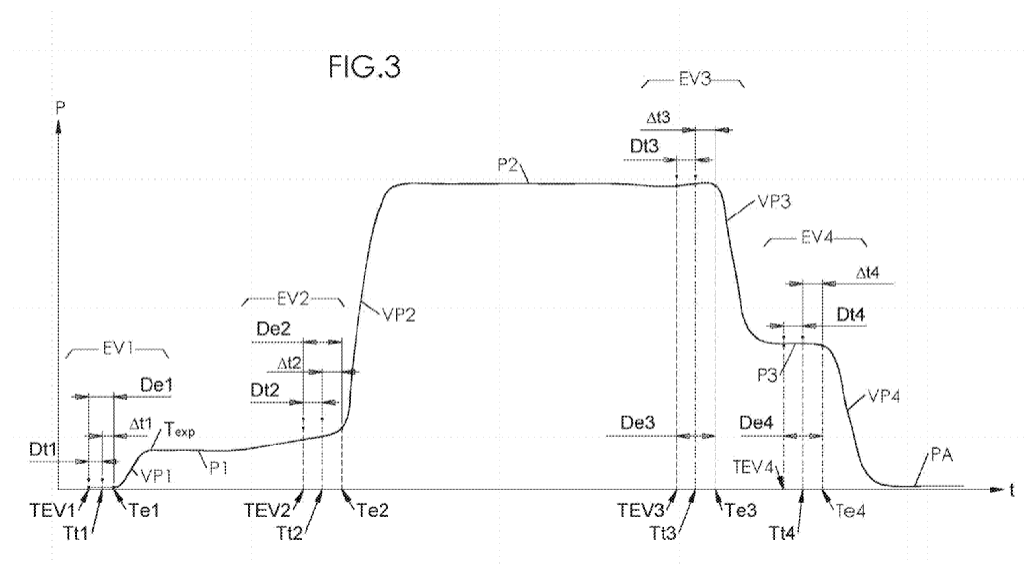
B29C 2049/7832

Definition statement

This place covers:

Control of a material-shaping process including controlling blowing pressure of two or more levels.

Illustrative example of subject matter classified in this group:



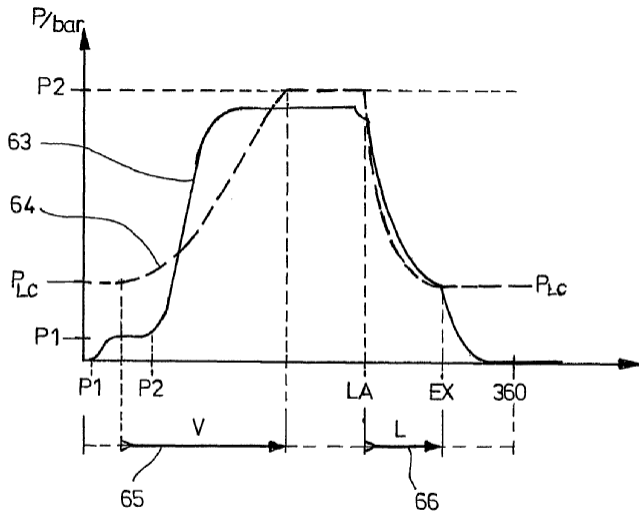


FIG. 6

B29C 2049/7833

Definition statement

This place covers:

Control of a material-shaping process including controlling blowing pressure of three or more levels.

Illustrative example of subject matter classified in this group:

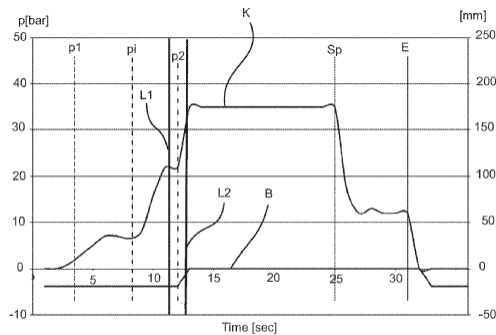


Fig. 7

DATE: MAY 1, 2022

PROJECT RP10424

B29C 2049/7834**Definition statement***This place covers:*

Control of a material-shaping process including controlling blowing pressure in terms of how fast/slow the pressure increases. This may depend on preform stretch or position.

Illustrative example of subject matter classified in this group:

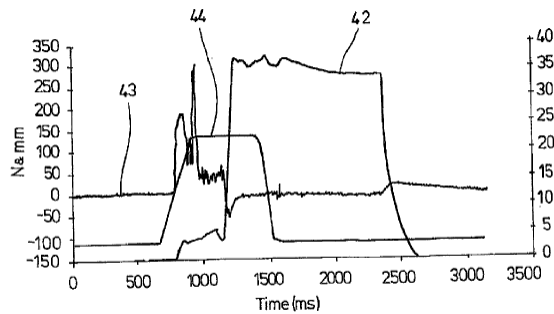


FIG. 6

FIG. 6 illustrates in a diagram the relation of a chronological blow pressure pattern 42, a stretching force development 43 as well as a stretching rod positioning 44. The scale of the time axis takes place in this case in milliseconds and the amplitude values are scaled in bar, Newton or millimeter. FIG. 6 illustrates that with respect to the positioning of the stretching rod 11, this stretching rod is initially moved essentially without development of a stretching force into the preform 1. After a contact of the stretching rod 11 at the bottom of the preform 1, the latter is stretched and a relatively great development of the stretching force takes place. After the longitudinal stretching is concluded, the remaining stretching force results from the stabilization of the preform in the stretched position while taking into consideration elastic restoring forces within the material of the preform. The blowing pressure sequence 42 shows the division into a pre-blowing phase during the carrying out of the stretching process and a principal blowing phase after a significant conclusion of the stretching procedure.

B29C 2049/7835**Definition statement**

This place covers:

Control of a material-shaping process including controlling blowing pressure in terms of how fast/slow the pressure decreases. This may depend on preform stretch or position.

Illustrative example of subject matter classified in this group:

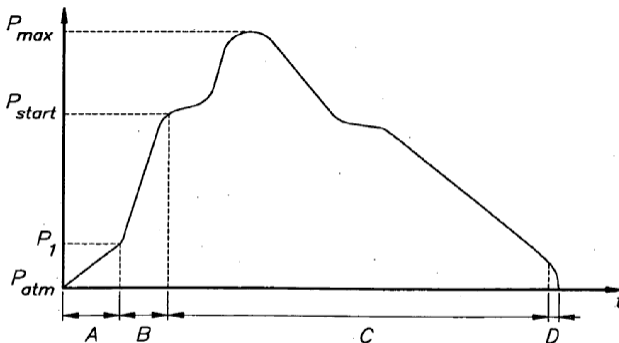


Fig. 8

While blowing, the compressed air itself is preferably cooled to an adjustable temperature as well, which may be either higher or lower than zero degrees Celsius. Thus, the decrease of pressure can be faster, since the blown object has to cool less long, and the de-aeration time D thus decreases, and the production speed and the output of the blowing process increase. The decrease of pressure in area C can be obtained by successively going through more than one adjustable discrete pressure value or, when using an unlimited number of such adjustable pressure values, by running through a continuously adjustable curve, whereby the last set pressure value can amount to zero bar relative pressure in relation to the atmospheric pressure.

B29C 2049/7861**Definition statement**

This place covers:

Control of a material-shaping process including controlling temperature of a preform.

Illustrative example of subject matter classified in this group:

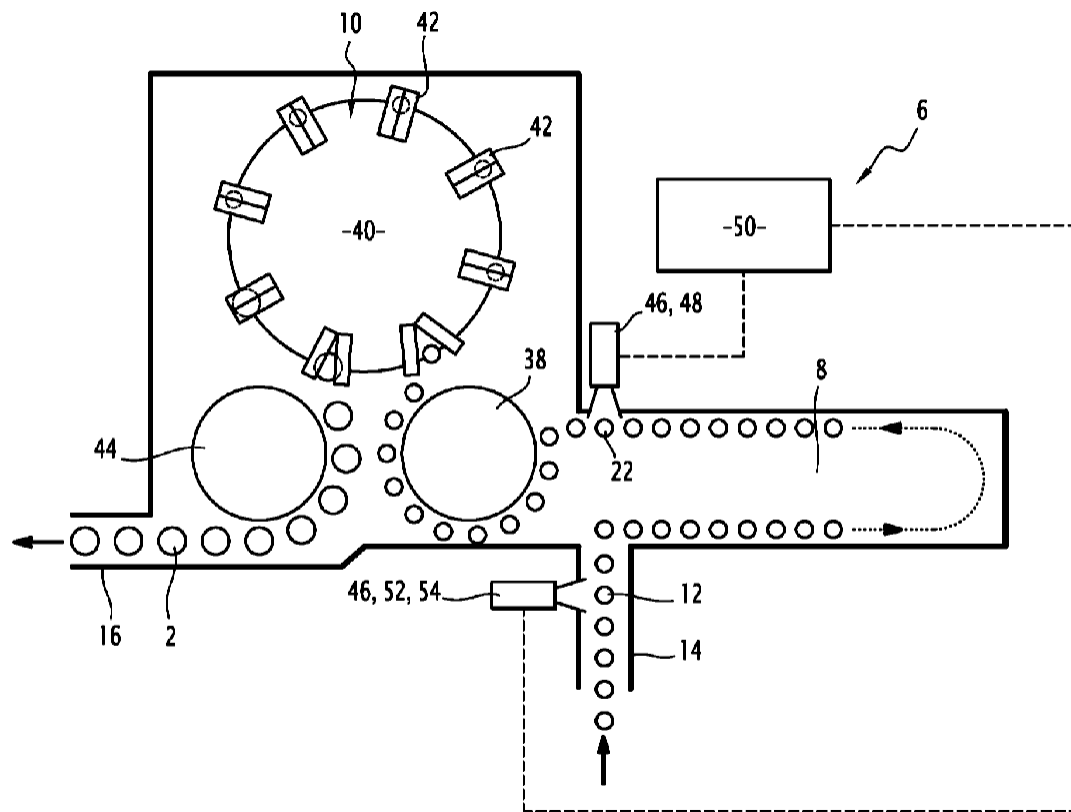
**FIG. 1**

Figure 1 depicts the outlet of the heating station 8, the heated preforms 22 are at a temperature comprised between the glass transition temperature of the material of the preform and its crystallization temperature, in order to obtain, at the outlet of the heating station 8, soft heated preforms 22 able to be deformed under the influence of a pressure injected inside the heated preforms 22, i.e. malleable preforms. The temperature is such that the preforms however still maintain their shape at the atmospheric pressure, meaning that they do not tend to be deformed without any pressure applied on them. As an example, for a preform made of PET in the dimensions range mentioned previously, the preform is heated at a temperature comprised between 100° C. and 140° C. It should however be noted that the more the preform has to be subjected to a greater

DATE: MAY 1, 2022

PROJECT RP10424

expansion along an axial direction and/or along radial directions, the more the preform is heated at a temperature over the glass transition temperature, but without reaching the crystallization temperature, for example around 135° C. for a preform made of PET in the dimensions range mentioned previously. Consequently, for preforms having a high bi-orientation rate, defining the cumulated axial elongation and radial expansion to which the preform has to be subjected, one wants to work at the highest possible temperatures, but without crystallizing the material of the preform, in order to allow the preform to be deformed easily enough to reach the wanted shape of the container without the appearance of an overstretching of the material, possible with a temperature not high enough and/or of an high stretching rate.

The acquired images or film are then transferred to the control unit 50 and compared to the reference gauge. Furthermore, a sensor for sensing the temperature of the heated preform 22 could be provided and a formula for correcting the acceptable retraction depending on the temperature of the heated preform 22 could be applied. If one of the acquired images or one of the images of the film shows a profile of the preform radially diverging more than the reference gauge, then it is determined that the analyzed preform is unsatisfactory.

B29C 2049/7862

Definition statement

This place covers:

Control of a material-shaping process including controlling temperature of a preform in terms of temperature values or ranges.

B29C 2049/7863

Definition statement

This place covers:

Control of a material-shaping process including controlling temperature of a preform which includes cold blow-moulding processes, e.g. below the glass transition temperature of the preform material.

B29C 2049/7864

Definition statement

This place covers:

Control of a material-shaping process including controlling temperature of a mould.

Illustrative example of subject matter classified in this group:

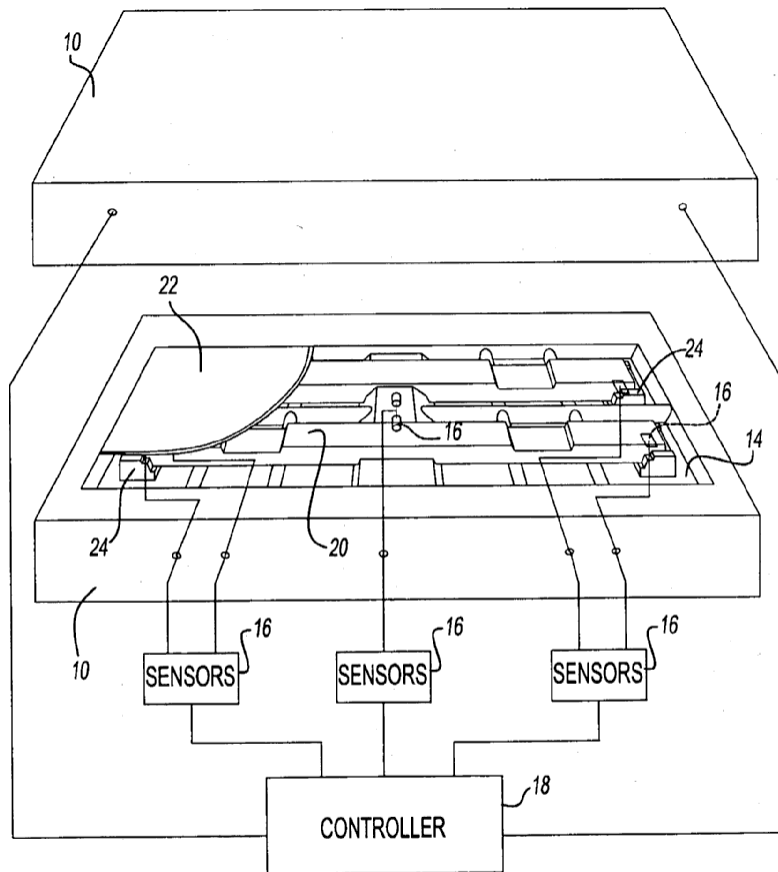


Fig-2

A moulding machine, wherein a sensor comprises a temperature sensor for sensing the temperature of the mould.

B29C 2049/78645

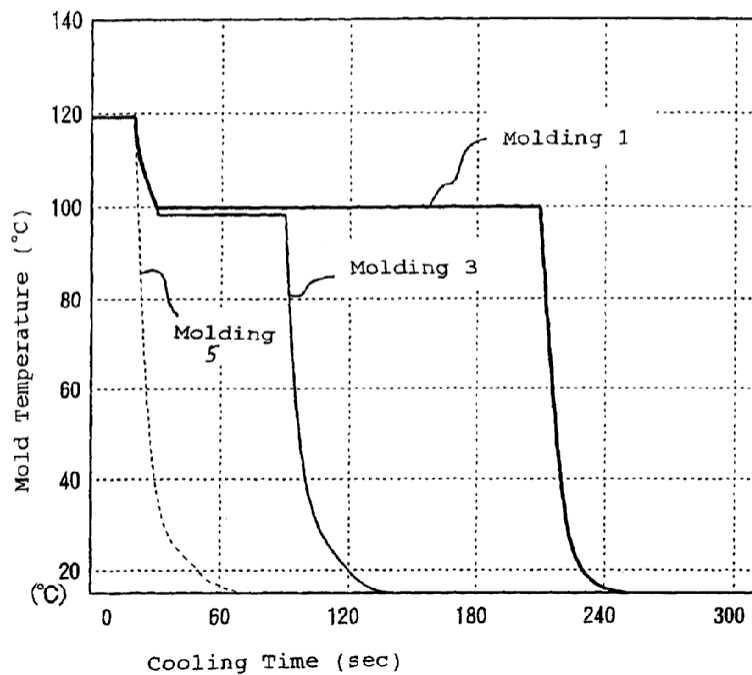
Definition statement

This place covers:

Control of a material-shaping process including controlling temperature of a mould in terms of temperature values or ranges.

Illustrative example of subject matter classified in this group:

Fig. 2



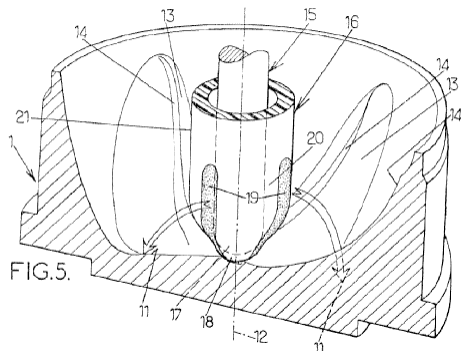
B29C 2049/7865

Definition statement

This place covers:

Control of a material-shaping process including controlling temperature of stretching elements, e.g. stretch rod.

Illustrative example of subject matter classified in this group:



The drawing rod 15, which is made of metal, is brought into contact sequentially with the bottoms of successive hot preforms and its temperature undoubtedly rises because of these repetitive contacts; however, these contacts being only intermittent, the rod remains at all times at an average temperature substantially lower than that of the hot preforms. To give a concrete idea of this, the preforms are typically heated to a temperature of the order of 100° C. whereas the average temperature of the drawing rod remains of the order of 85° C.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 2049/7867

Definition statement

This place covers:

Control of a material-shaping process including controlling temperature of the elements which provide heating or cooling.

B29C 2049/78675

Definition statement

This place covers:

Control of a material-shaping process including controlling temperature of elements which provide heating.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424

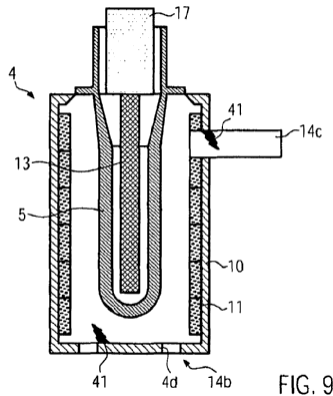


FIG. 9

FIG. 9 shows a heating chamber 4 in which temperature probes 41 are additionally provided. These can, for example, be provided in the vicinity of the recesses 4d of the feed line 14b or on the discharge line 14c of the cooling air 14. With the temperature probes 41 it is possible to monitor the temperature within the heating chambers 4. Similarly, it is conceivable that with the aid of the temperature probes 41 and a suitable control device the amount of cooling air introduced into the heating chamber 4 can be controlled, in particular with convection driven by a blower. However, this would also be possible with free convection. A temperature control can also be used to stabilise the heat distribution in the preform and/or to compensate differences between individual heating chambers 4 or preforms 5. It is also conceivable to regulate the amount of air to be introduced in dependence of a measured final temperature after heating the preform and/or to mix discharged cooling air 14 for temperature control at least partly with the cooling air 14 to be fed in and/or to pass the discharged cooling air 14 to a heat exchanger for heat extraction in another process.

With the aid of temperature probes 41 the temperature in the heating chambers 4, in particular after closing the lid 21 with the heating chamber 4 uncharged, can be set to a constant value or to a uniform output temperature for heating the preforms 5.

B29C 2049/7868

Definition statement

This place covers

Control of a material-shaping process including controlling temperature of the formed article.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 2049/78705

Definition statement

This place covers:

Control of a material-shaping process including controlling thickness of a preform in terms of the particular thickness of a layer within the preform.

Illustrative example of subject matter classified in this group:

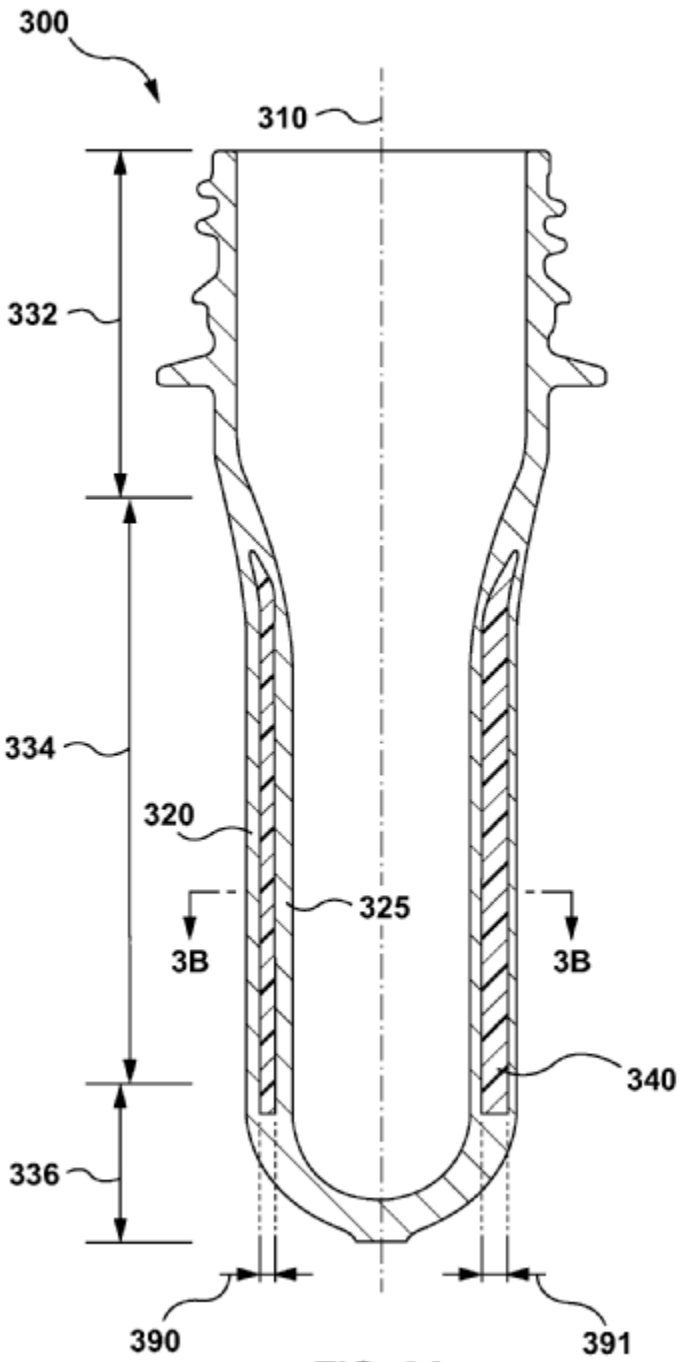


FIG. 3A

FIG. 2

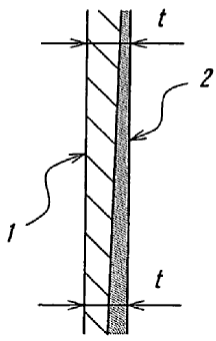


FIG. 3

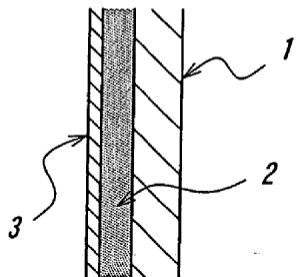


FIG. 4

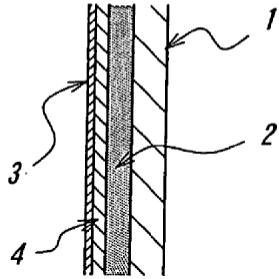


FIG. 5

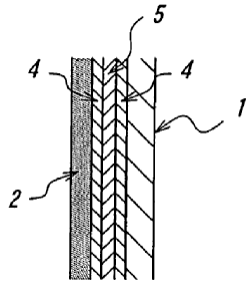


FIG. 6

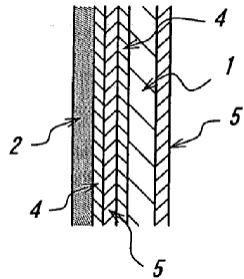
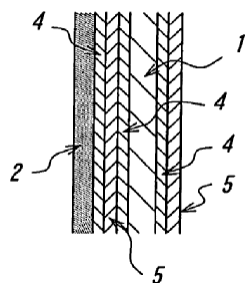


FIG. 7



DATE: MAY 1, 2022

PROJECT RP10424

As seen in Figures 2-7, a laminated and moulded body obtained by coextruding and moulding at least two kinds of resin materials. At least one layer of said laminated and moulded body comprises a coloured layer having a thickness continuously or intermittently varied in a predetermined direction with respect to the extruding direction of the resin material of said coloured layer, wherein the predetermined direction preferably is a direction parallel to the extruding direction of said at least one layer of said laminated and moulded body or preferably the predetermined direction is a direction intersecting the extruding direction of said at least one layer of said laminated and moulded body or preferably the predetermined direction comprises a direction parallel to the extruding direction of said at least one layer of said laminated and moulded body and another direction intersecting the extruding direction, wherein preferably the full thickness of said laminated and moulded body is substantially constant along said predetermined direction, wherein preferably said coloured layer has a thickness varied within a range of 50% of the full thickness of said laminated and moulded body.

B29C 2049/7871

Definition statement

This place covers:

Control of a material-shaping process including controlling thickness of a preform in terms of the thickness of the preform as-extruded.

B29C 2049/78715

Definition statement

This place covers:

Control of a material-shaping process including controlling thickness of a preform in terms of the thickness of the blown article.

Illustrative example of subject matter classified in this group:

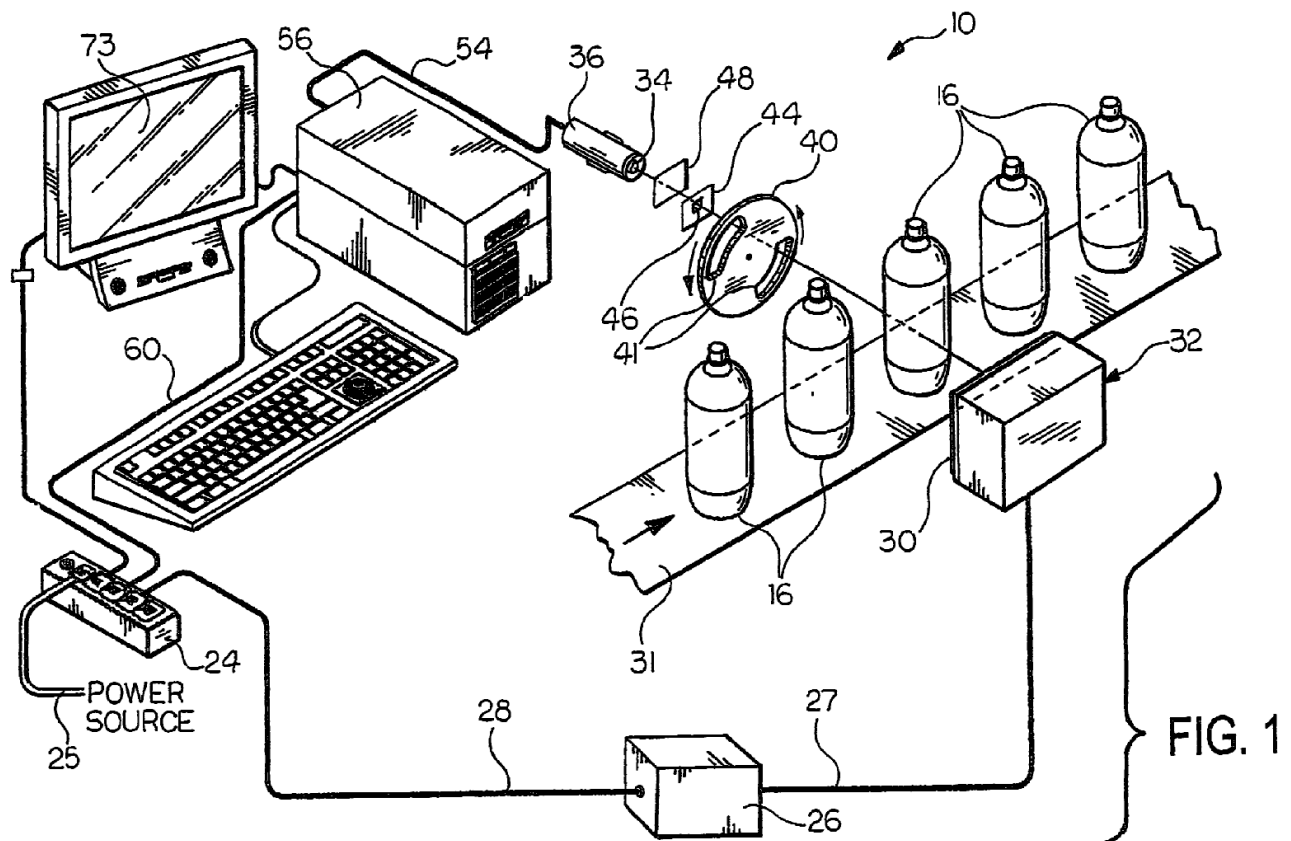


Figure 1 shows machine control features connected to moulding devices for a thickness monitor that generates a thickness signal representing an average wall thickness of the container; and a system control connected to said thickness monitor

DATE: MAY 1, 2022

PROJECT RP10424

and being responsive to said thickness signal for generating a control signal, a control signal for adjusting operation of the moulding devices based upon average wall thickness, such that the system control responds to feedback signals generated by the moulding devices by adjusting operation of the moulding devices.

B29C2049/7873

Definition statement

This place covers:

Control of a material-shaping process including controlling extrusion speed, such as extrudate position, length, or fall speed.

B29C2049/7874

Definition statement

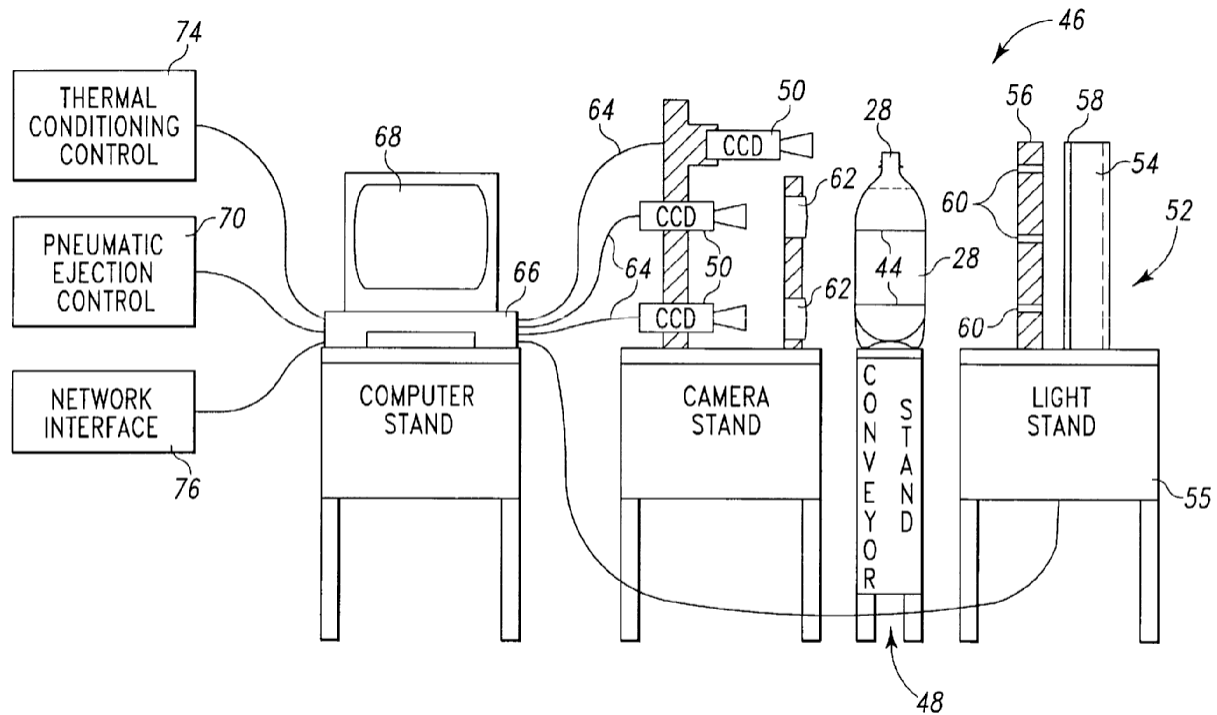
This place covers:

Control of a material-shaping process including controlling preform attributes of shape, weight, or presence of defect.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424



This figure depicts detecting, from at least some of the blow-moulded containers in the production process, the axial location of the indicator relative to a control location; determining for the at least some blow-moulded containers a material distribution outcome based on the detected axial locations of each indicator accumulating data representative of the material distribution outcome for a group of containers; computing an average material distribution characteristic for the group of containers; classifying the average material distribution characteristic for the group of containers in one of a pre-defined set of classes; and providing a signal based on the classification.

DATE: MAY 1, 2022

PROJECT RP10424

B29C 2049/78745

Definition statement

This place covers:

Control of a material-shaping process including controlling preform attributes of weight or density.

B29C 2049/7875

Definition statement

This place covers:

Control of a material-shaping process including controlling preform attributes of size or shape.

B29C 2049/7876

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

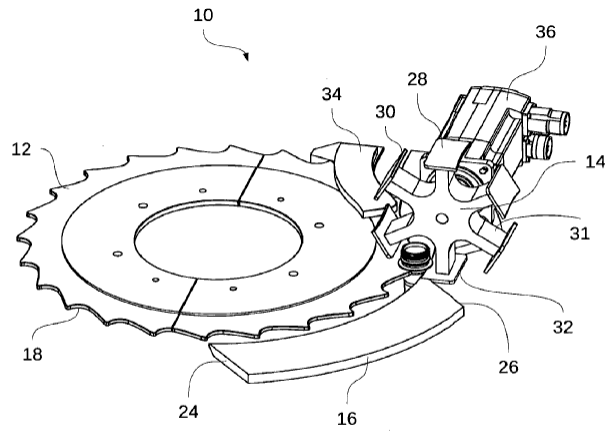


Fig. 1

B29C 2049/78765

Definition statement

This place covers:

Control of a material-shaping process including controlling preform attributes of a presence of a defect in the preform.

B29C 2049/78805

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

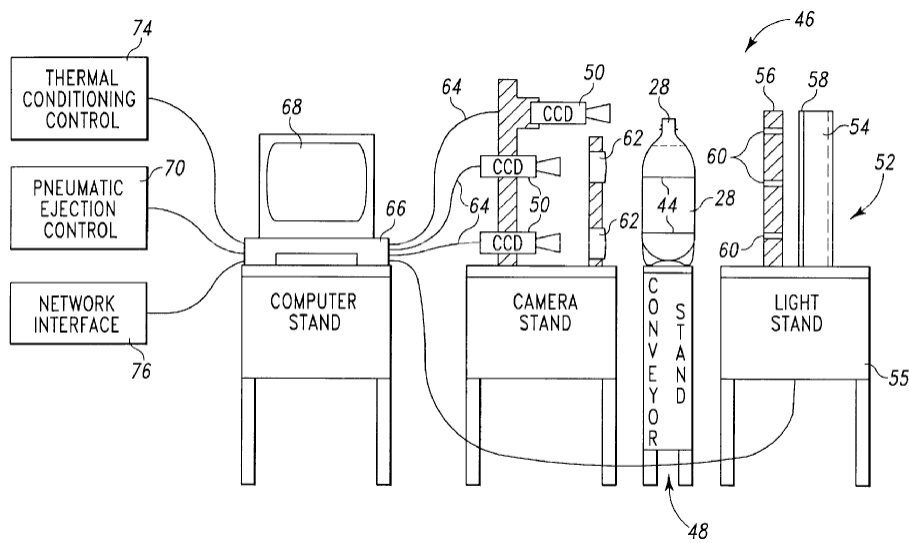


Fig. 7

B29C 2049/7881

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

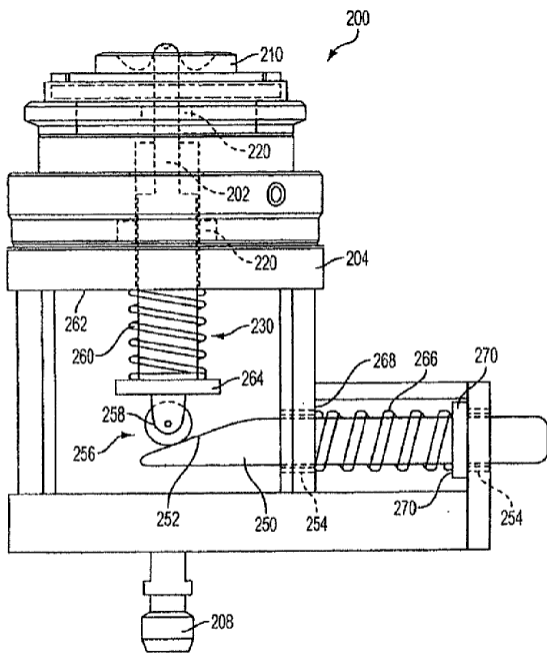


FIG. 3A

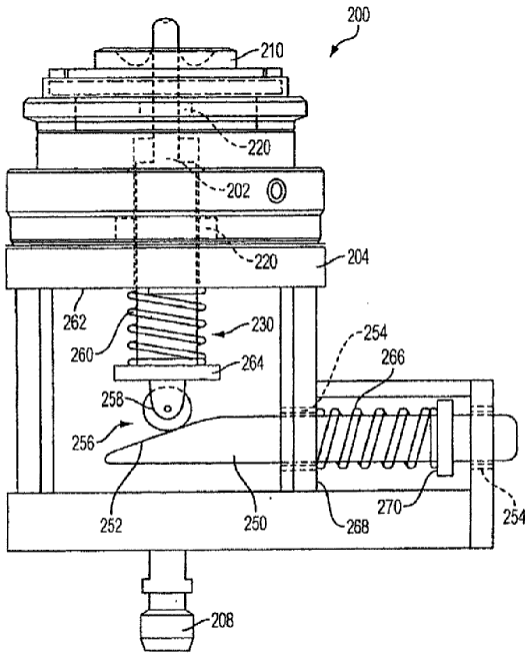


FIG. 3B

B29C 2049/78815

Definition statement

This place covers:

Where the controller type or interface uses wireless transmission.

Illustrative example of subject matter classified in this group:

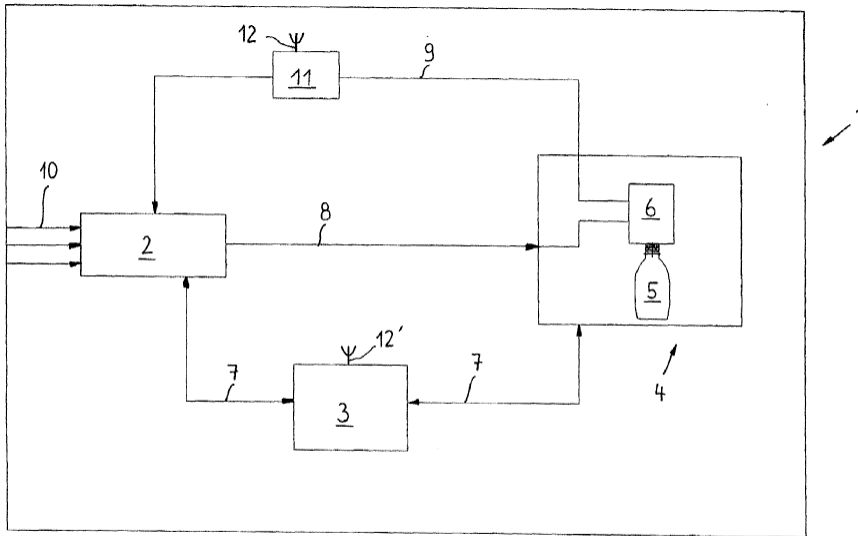


FIG. 1

Figure 1 illustrates the air recirculation 9 equipped with a pressure sensor 11 which monitors the pressure conditions of the blow-moulding air to be recirculated out of the container 5. This data is sent from the pressure sensor 11 to the transmitting and receiving unit 12 of the control unit 3 via a transmitting/receiving unit 12' by wireless transmission. With the help of these results as well as other results, the control unit 3 is able to optimally regulate the compressor 2 in order to optimise and/or reduce the power consumption by the entire hollow body manufacturing unit 1.

B29C 2049/7882

Definition statement

This place covers:

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424

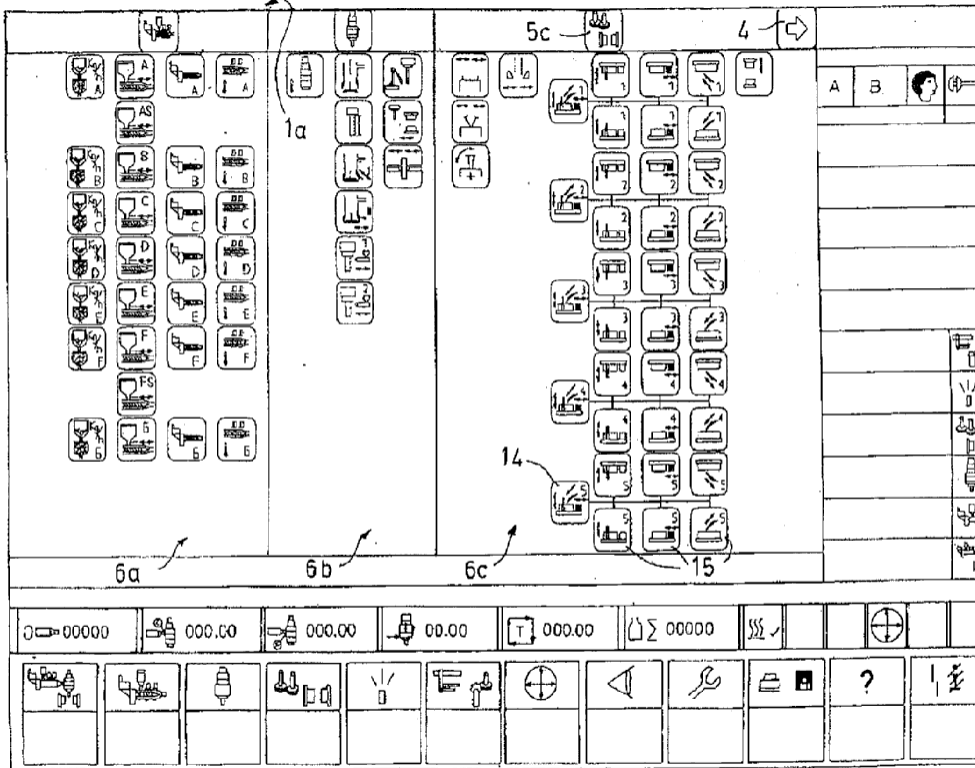
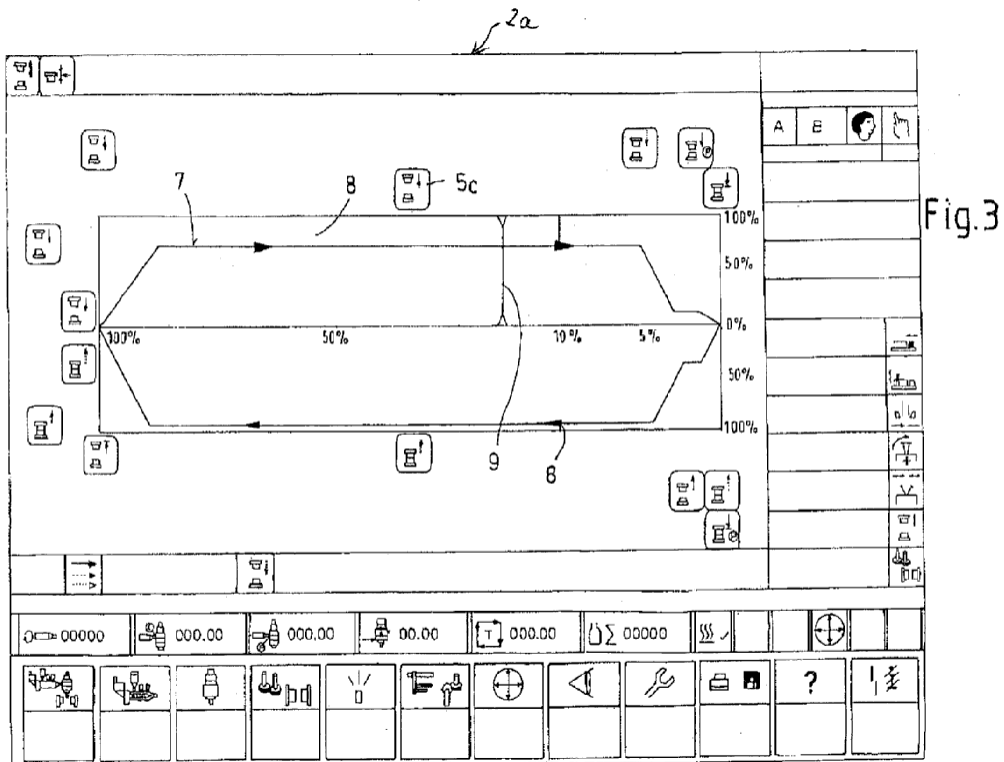
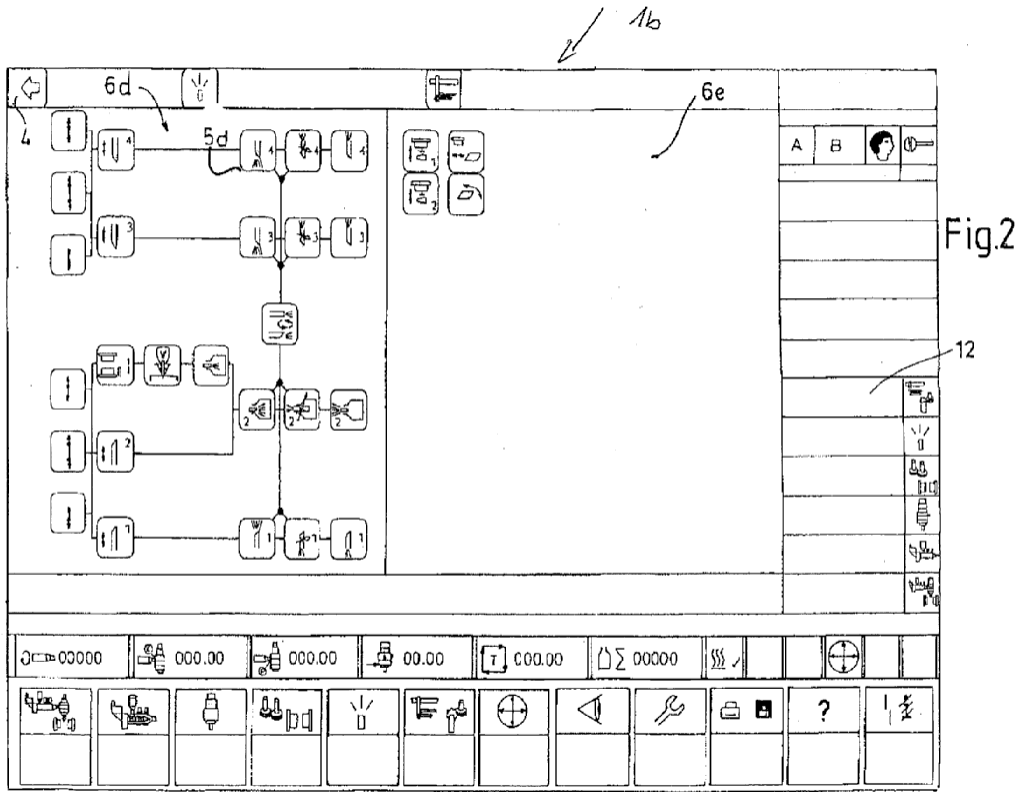


Fig.1



CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

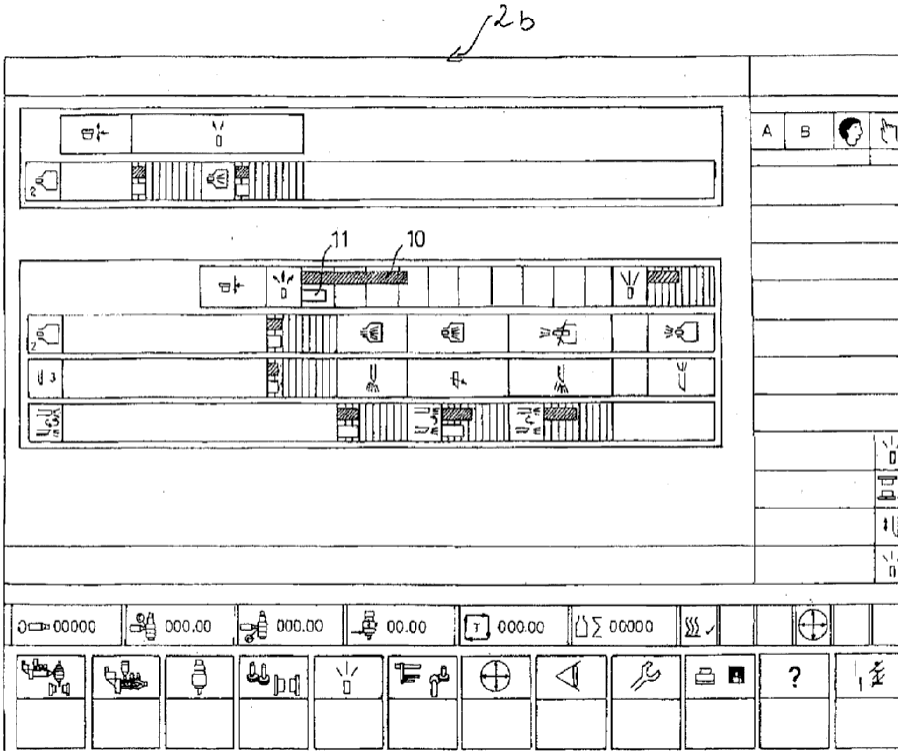


Fig.4

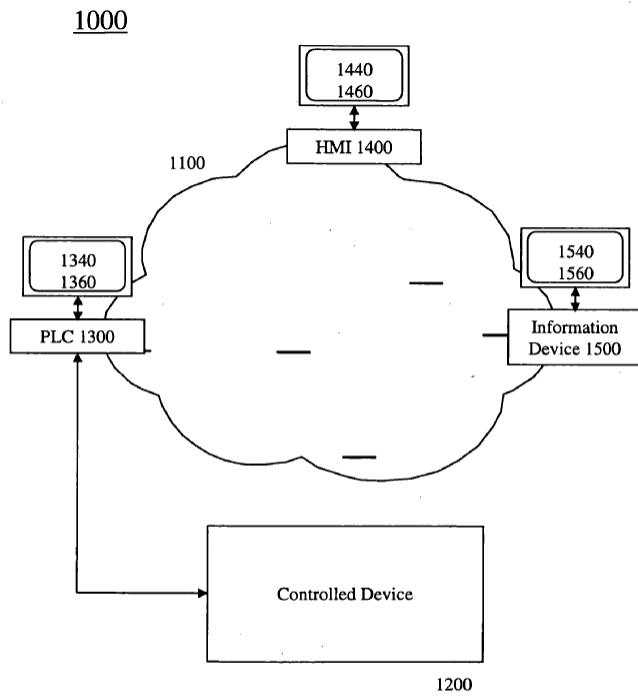


Fig. 1

B29C 2049/801

Definition statement

This place covers:

Testing by taking preform or article samples.

Illustrative example of subject matter classified in this group:

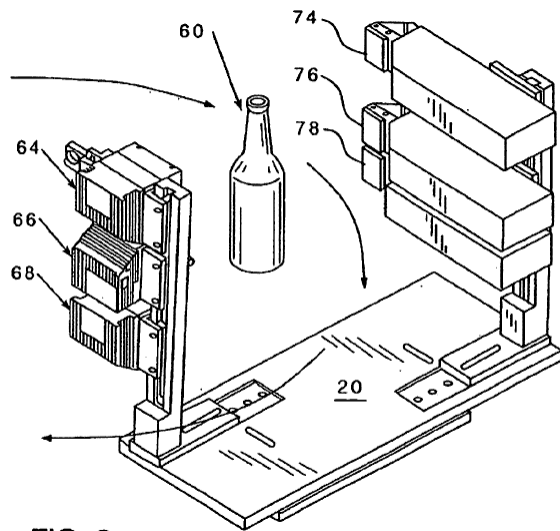


FIG. 2

2. A. Definitions (modified)

B29B 11/00

References:

Delete: The entire Informative references section.

Special rules of classification

Delete: The following paragraph from the Special rules of classification section.

However, the indexing of preforms for blow-moulding bottles using the coding scheme under [B29B 2911/14](#) is obligatory when the structure of the preform differs from the conventional shape (one layer, open neck, flange, cylindrical body, closed semispherical end).

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Replace: The existing Glossary of terms table text with the following updated text.

Preform	An object obtained by moulding substantially consisting of plastic material, which has to undergo an additional processing step, e.g. blow-moulding, to obtain its final shape
---------	--

DATE: MAY 1, 2022

PROJECT RP10424

B29B 11/14

Delete: The entire Informative references section.

Delete: The entire Special rules section.

B29C 49/00

Definition statement

Replace: The existing Definition statement text with the following updated text.

Blow-moulding methods, blow-moulding apparatus and articles obtained by blow-moulding, when these articles are characterised by the blow-moulding method.

Simulation of blow-moulding or any other simulated aspect related to blow-moulding, e.g. simulating heating a preform before blow-moulding. This aspect is covered in the group [B29C 49/42398](#).

References:

Delete: The entire Limiting references section.

Replace: The existing Informative references table with the following updated table.

Informative references:

Attention is drawn to the following places, which may be of interest for search:

Making of balloon catheters by combined operations	A61M 25/1027
Metal blow-moulding	B21D 26/00
Making preforms per se	B29B 11/00

DATE: MAY 1, 2022

PROJECT RP10424

Injection a fluid, e.g. air, in molten plastic in injection moulding	B29C 45/1704
Extrusion moulding of tubular films	B29C 48/10
Vacuum or pressure forming of sheet like materials	B29C 51/10
Enlarging tube ends using pressure difference	B29C 57/08
Packaging individual articles in containers or receptacles whereby the machines incorporate means for making the containers	B65B 3/022
Labelling of blow-moulded articles outside the mould	B65C 3/00
Glass blow-moulding	C03B 9/00

Special rules of classification

Replace: The existing Special rules text with the following updated text.

For articles and materials, as much as possible additional classification by adding the Indexing Codes of B29K and B29L is recommended.

If more than 4 different thermoplastic materials are described in the disclosure, then the Indexing Code B29K 2101/12 should be allocated. In addition, only up to 4 of the disclosed uncommon thermoplastic materials are classified (common thermoplastics for blow-moulding are PET, PE, PP) by allocating the appropriate Indexing Code as provided in B29K 2001/00 - B29K 2101/00.

Inventive and additional information disclosed in documents to be classified should be identified by allocation the appropriate classification codes of B29C 49/00 - B29C 49/78. In particular attention should be paid to the so called break down Indexing Codes, which are only present at additional information level, but should be allocated if applicable.

If during blow-moulding also vacuum is used, or only vacuum is used for deformation of the tubular parison, then one or both of the following classification codes are additionally allocated: B29C 2791/006 and/or B29C 2791/007.

The indexing of preforms for blow-moulding bottles using the coding scheme under B29C 2949/07 is obligatory when the structure of the preform differs from the conventional shape (one layer, open neck, flange, cylindrical body, closed semi-spherical end).

DATE: MAY 1, 2022

PROJECT RP10424

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Replace: The text in the first row of the Glossary of terms table with the following updated text.

Preform or parison	A tubular object obtained by moulding substantially consisting of plastic material, which has to undergo an additional processing step, e.g. blow-moulding, to obtain its final shape, examples are: tubes, extruded parisons, two parallel sheets which behave like tubular preforms, injection moulded tubular preforms normally with one end closed.
--------------------	---

B29C 49/0042

Definition statement

Replace: The text “-FR2848906” with the following text.

Illustrative example of subject matter classified in this group:

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Pre-blowing without using a mould	B29C 49/1602
-----------------------------------	--------------

B29C 49/06

Definition statement

Replace: The existing Definition statement text with the following updated text.

The injection moulding apparatus, with which the preform is produced.

The blow-moulding apparatus, with which the preform is blow-moulded.

Special rules of classification

Replace: The existing Special rules text with the following updated text.

The additional information classification [B29C 49/06](#) is allocated to a document to be classified, when the preform is produced by injection moulding but when the injection moulding apparatus is not disclosed in greater detail.

[B29C 49/42](#) has to be allocated as additional information where appropriate.

For the heating or cooling of preforms, as much as possible additional classification by adding appropriate classification in [B29C 49/64](#) or its subgroups, e.g. [B29C 49/6409](#) is recommended.

B29C 49/12

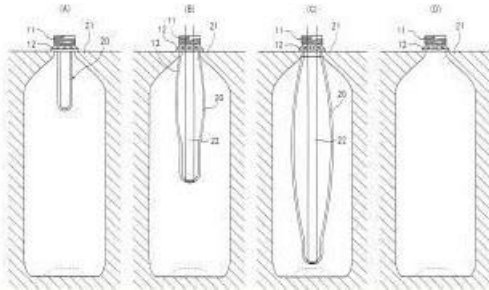
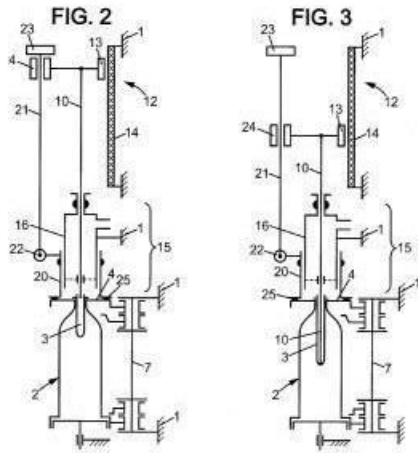
Definition statement

Replace: The existing text and figures with the following updated text and figures.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424



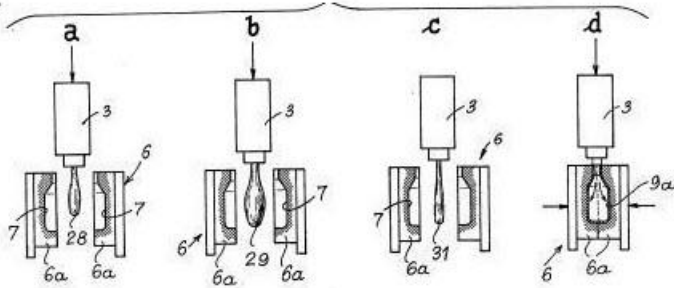
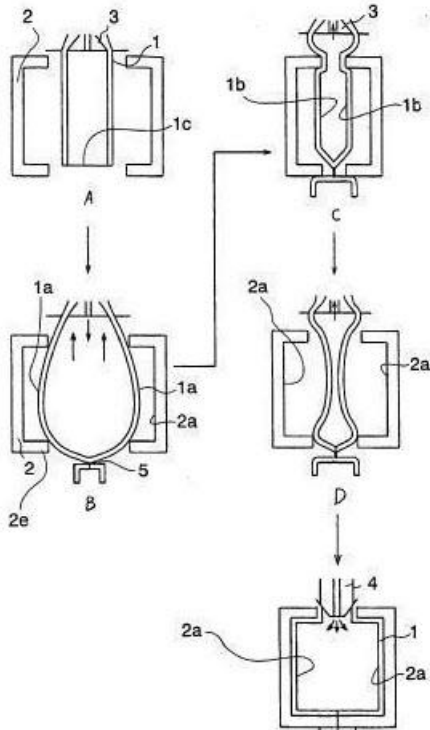
B29C 49/16

Definition statement

Replace: The existing text and figures with the following updated text and figures.

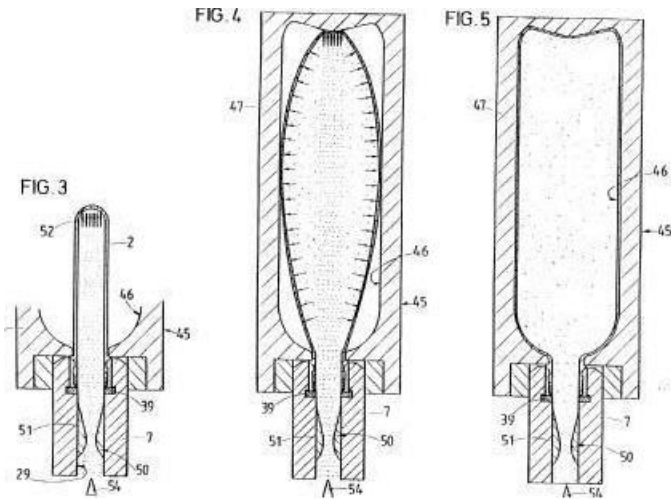
Blow-moulding processes, whereby the pressure difference is used to stretch the preform in its longitudinal direction.

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

**B29C 49/18****Definition statement**

Replace: The existing text with the following updated text.

Blow-moulding using several blowing steps, whereby between each blowing step for a period of time, depressurisation is being applied, thereby causing a period with atmospheric pressure inside the preform/container.

Illustrative example of subject matter classified in this group:

References:**Limiting references:**

Delete: The following row from the Limiting references table.

Multiple blow-moulding steps followed by additional heat shrinking	B29C 49/6472
--	--------------

DATE: MAY 1, 2022

PROJECT RP10424

Insert: The following new Informative references section.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Multiple blow-moulding steps followed by additional heat shrinking	B29C 49/6472
--	------------------------------

Special rules of classification

Replace: The existing Special rules text with the following updated text.

Multiple blow-moulding steps, with longitudinal stretching during each blowing step are additionally classified in [B29C 49/08](#) or one of its subgroups.

As example the following disclosure should be classified [B29C 49/12](#) and [B29C 49/18](#).

[B29C 49/22](#)

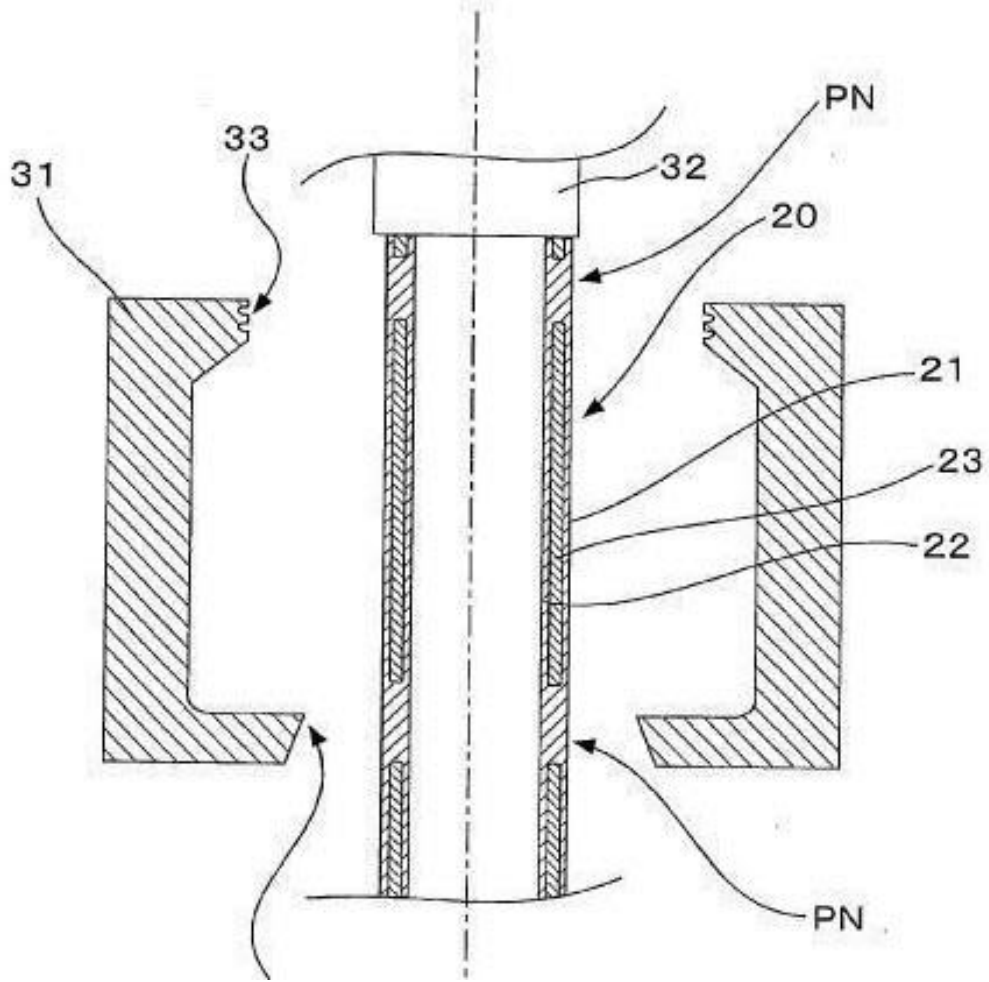
Definition statement

Replace: The existing Definition statement with the following updated Definition statement.

Multilayered parisons produced by extrusion moulding.

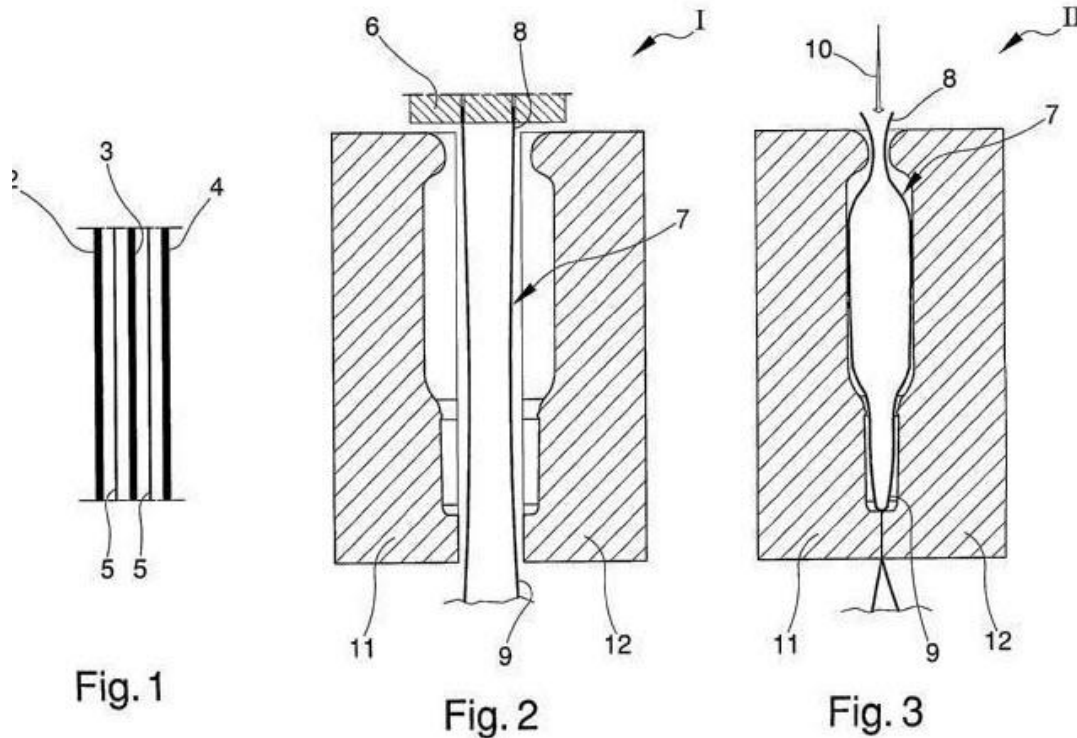
Parisons having loose layers before blow-moulding.

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424



References:

Informative references:

Attention is drawn to the following places, which may be of interest for search:

Replace: The term “tubular” with “Tubular”, and “multilayered” with “Multilayered” as shown below.

Tubular layered products per se	B32B 1/08
Multilayered plastic containers, e.g. bottles	B65D 1/0215

Special rules of classification

Replace: The existing Special rules text with the following updated text.

If applicable, it is highly desirable to allocate classification in [B29C 2949/07](#) and subgroups, in particular [B29C 2949/30](#), for information related to the geometrical distribution or dimensions of the layers.

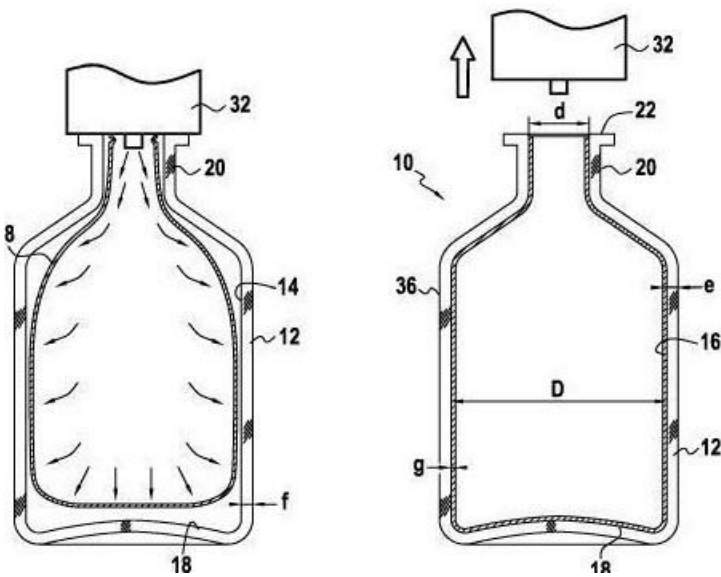
B29C 49/24

Definition statement

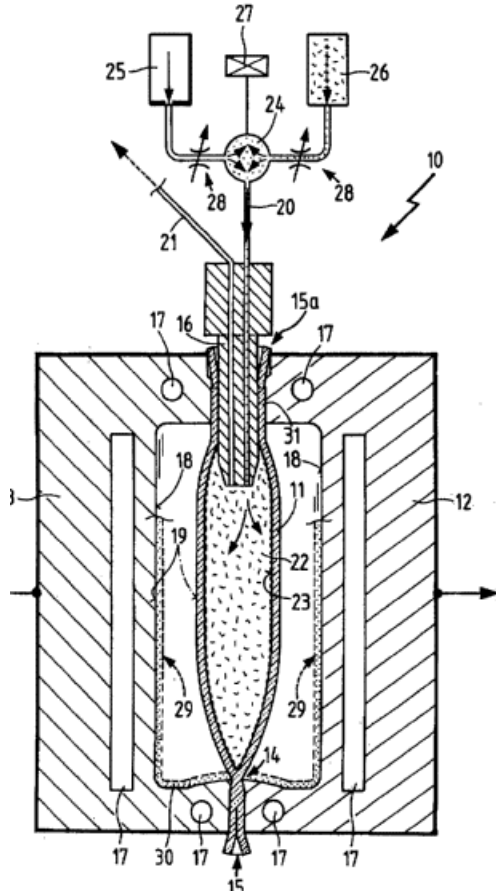
Replace: The existing text and figures with the following updated text and figures.

Lining

Illustrative example of subject matter classified in this group:



Labelling



References:

Informative references:

Attention is drawn to the following places, which may be of interest for search:

Replace: The term “then” with “than” in the following reference.

Labelling other than flat surfaces in general	B65C 3/00
---	---------------------------

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Replace: The term “parision” with “parison” in the first row of the table.

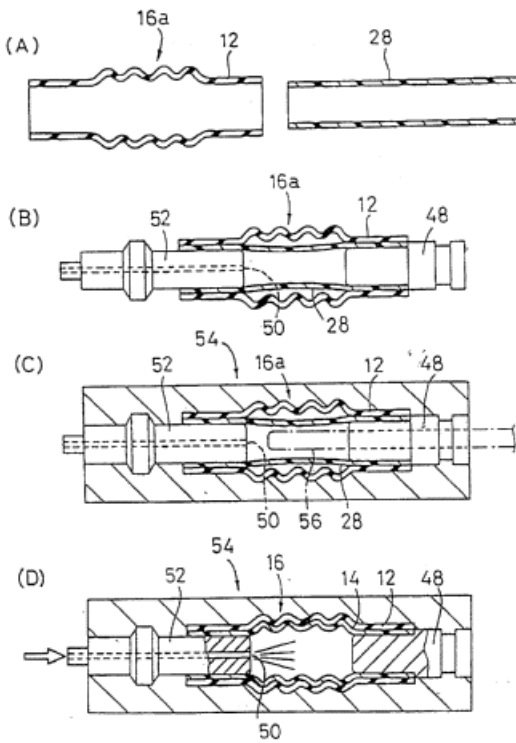
Lining	Covering the whole outer and/or inner surface of articles with a heated preform or parison. The heated preform or parison is stretched and three dimensionally deformed.
--------	--

B29C 49/26

Definition statement

Replace: The existing text and figure with the following updated text and figure.

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/42

Definition statement

Replace: The bullets in the Definition statement with the following updated text.

Details of extrusion dies used during blow-moulding.

Closing parison ends before blow-moulding e.g. with a fluid stream or by grippers.

Antistatic treatment of preforms.

Cleaning of preforms.

Sterilisation of preforms.

Mould change.

Cutting and recycling material.

Avoiding malfunctioning.

References:

Informative references:

Attention is drawn to the following places, which may be of interest for search:

Replace: The text in the second row of the table with the following updated text.

Maintenance of moulds namely cleaning of moulds in general	B29C 33/72
--	------------

B29C 49/4205

Definition statement

Replace: The existing text and figures with the following updated text and figures.

DATE: MAY 1, 2022

PROJECT RP10424

Gripping and holding means for preforms, parisons or blown articles.

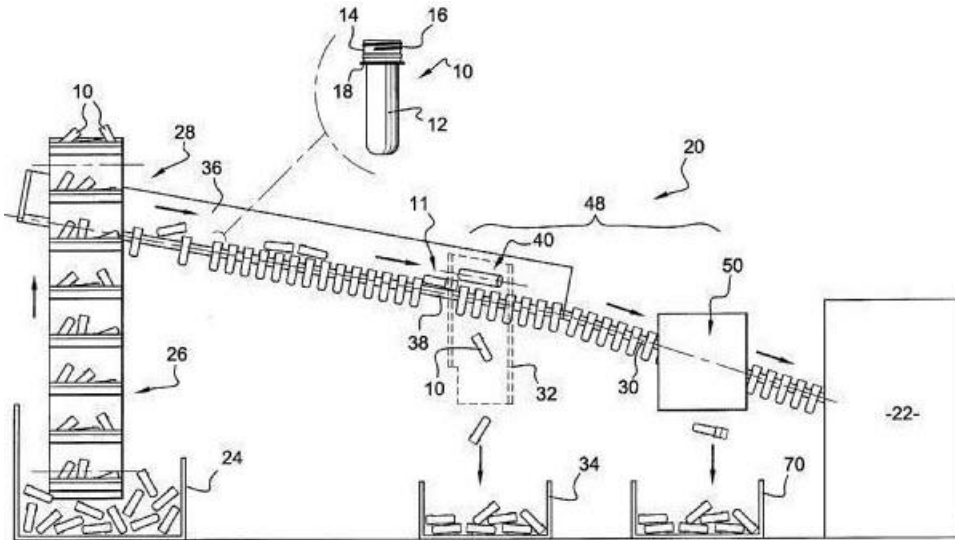
Adjustable transporting means depending on the size of the preforms, parisons or blown articles.

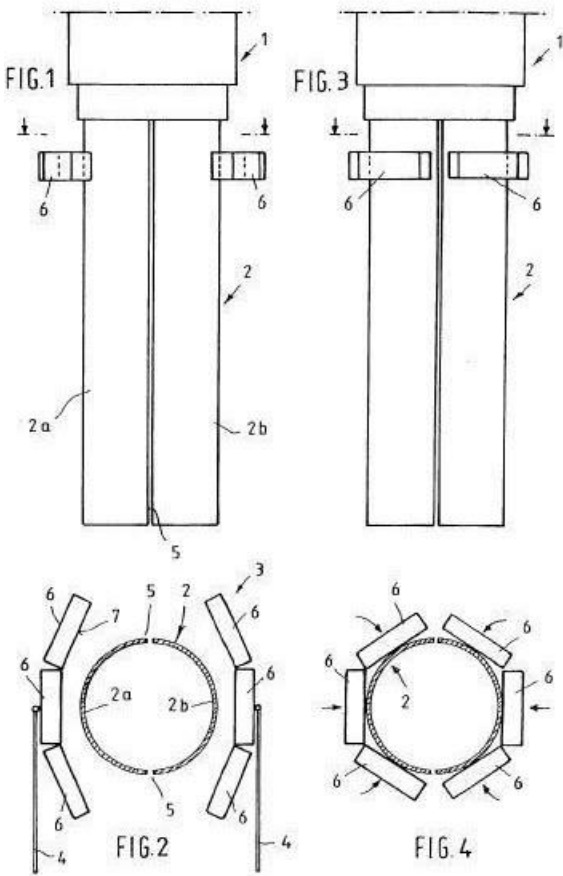
Air conveyors for preforms or blown articles.

Orientating unorientated preforms.

Feeding of preforms or parisons.

Illustrative example of subject matter classified in this group:

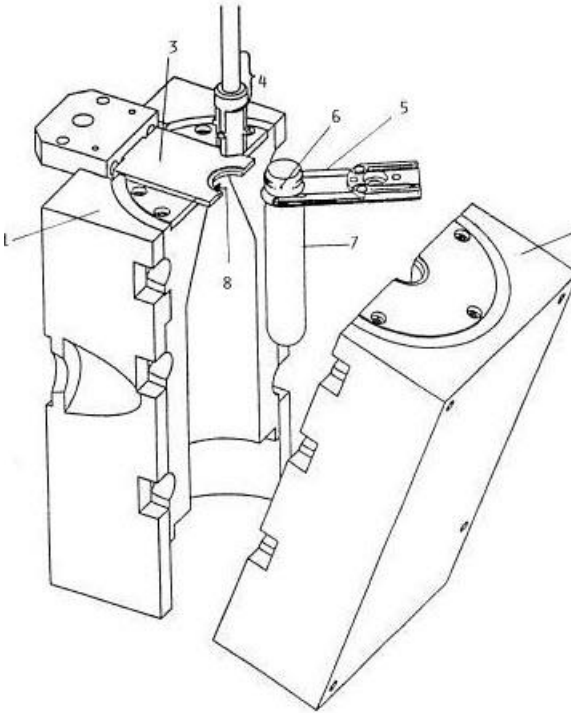


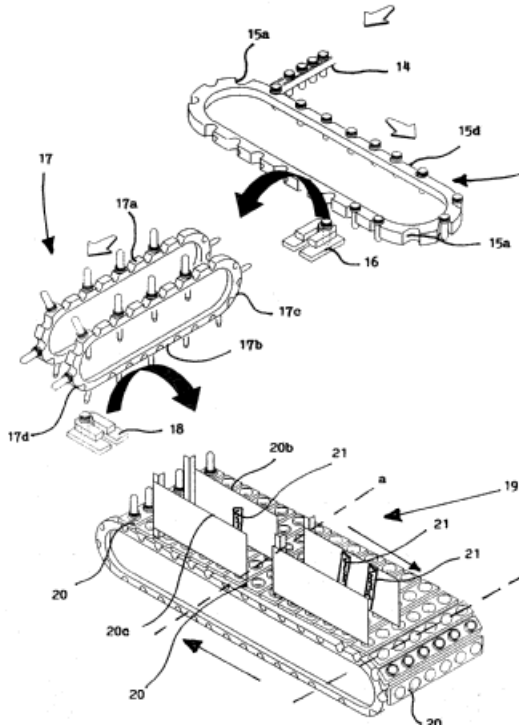


CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424





References:

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Handling of inserts or reinforcements	B29C 49/20
Handling of linings or labels	B29C 49/2408

B29C 49/4242

Definition statement

Replace: The existing text and figures with the following updated text and figures.

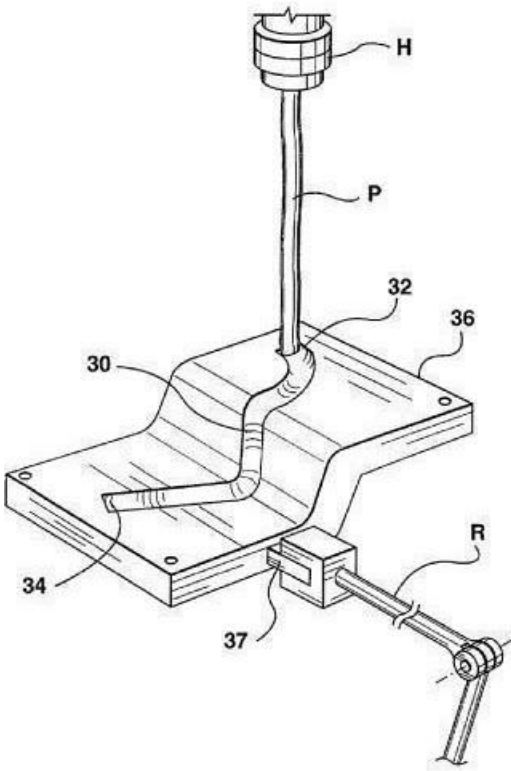
Pulling the extruded parison through the mould.

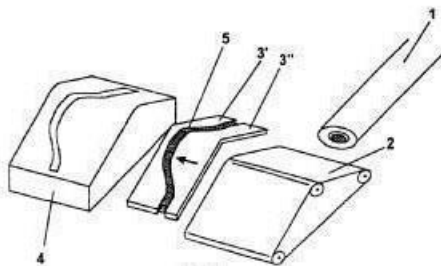
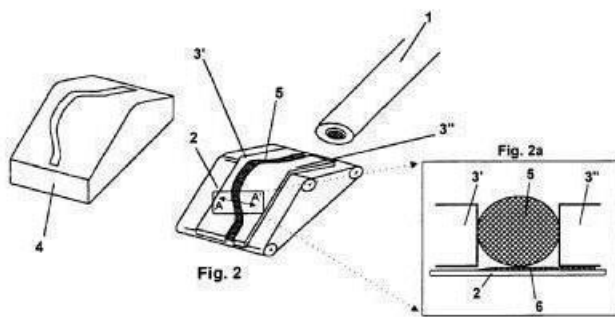
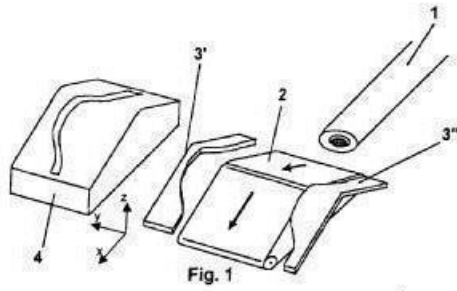
Moving the mould or the extruder head while extruding the parison.

A floating for helping feeding of the parison through the mould.

Using grippers which deform the parison during extrusion or during transportation.

Illustrative example of subject matter classified in this group:





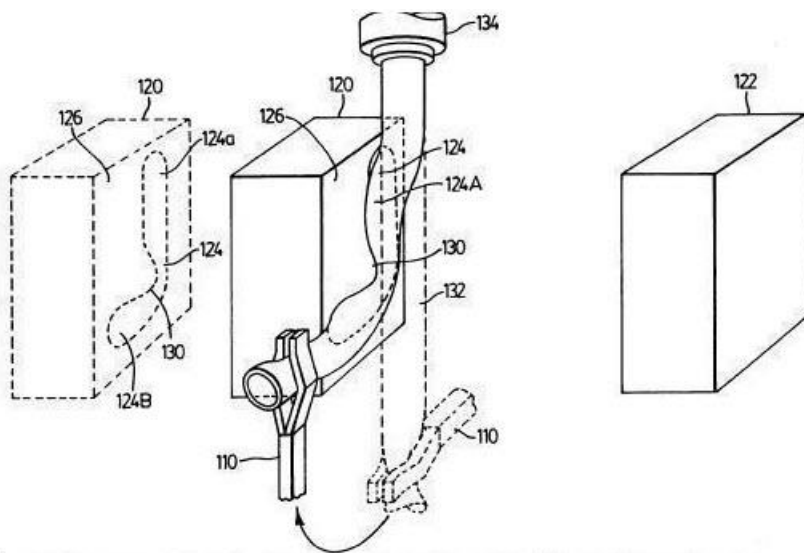
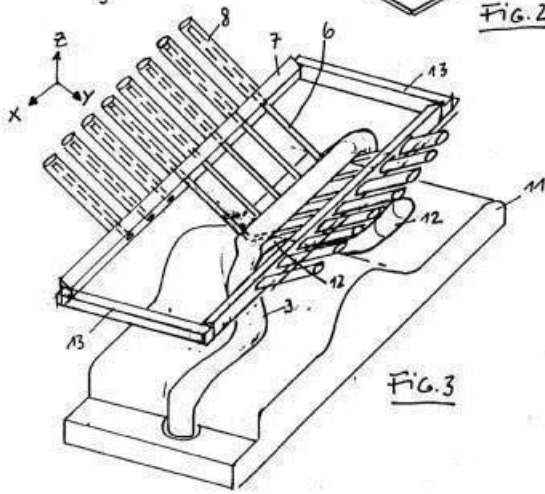
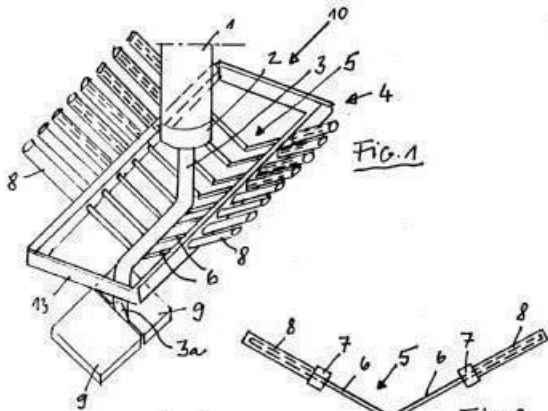
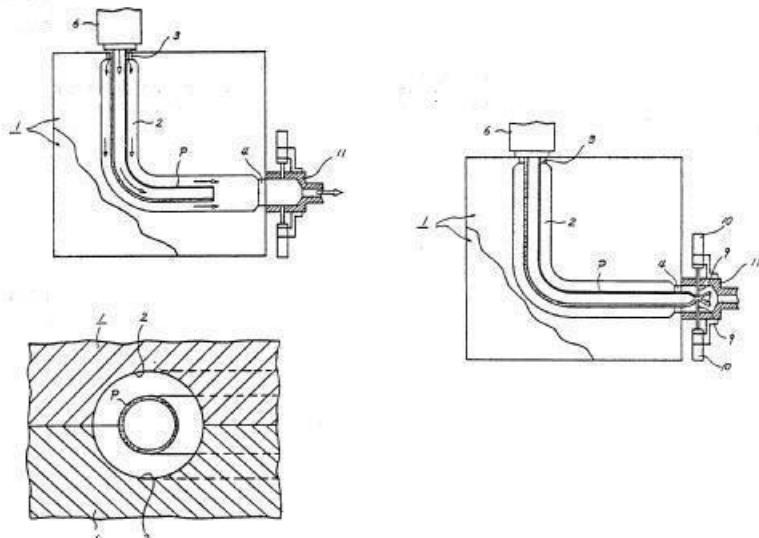
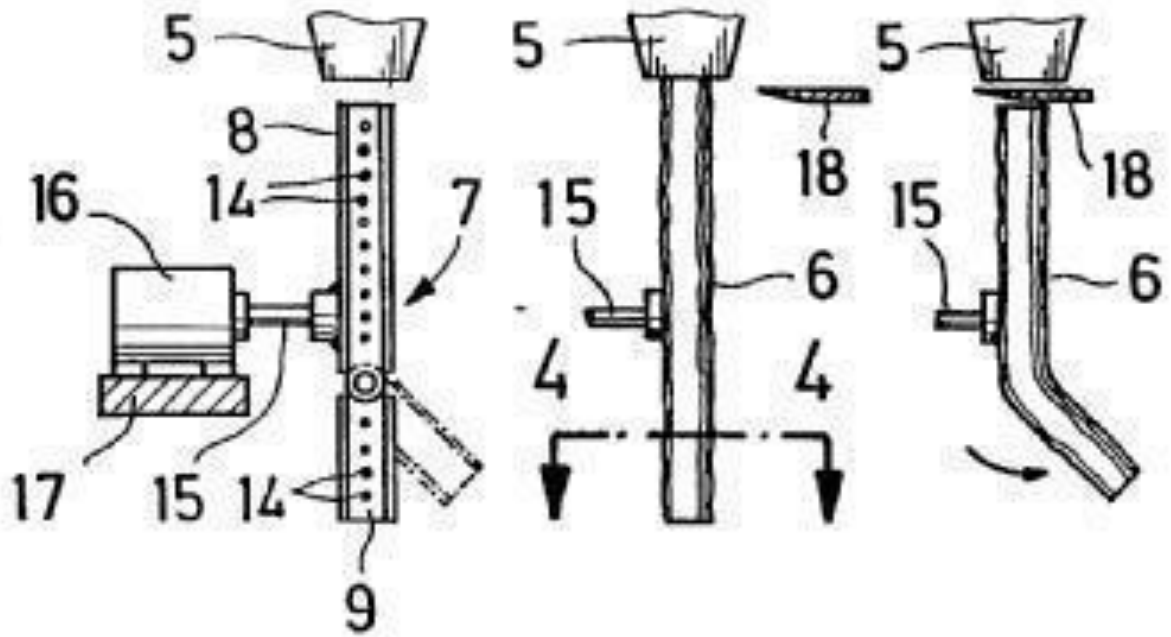


Fig.2 Fig.3 Fig.5



DATE: MAY 1, 2022

PROJECT RP10424

References:

Limiting references:

Delete: The following reference from the Limiting references table.

Bending of tubes	B29C 53/083
------------------	-----------------------------

Insert: The following new reference in the Limiting references table.

Biaxial stretching during blow-moulding	B29C 49/08
---	----------------------------

Insert: The following new Informative references section.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bending of tubes	B29C 53/083
------------------	-----------------------------

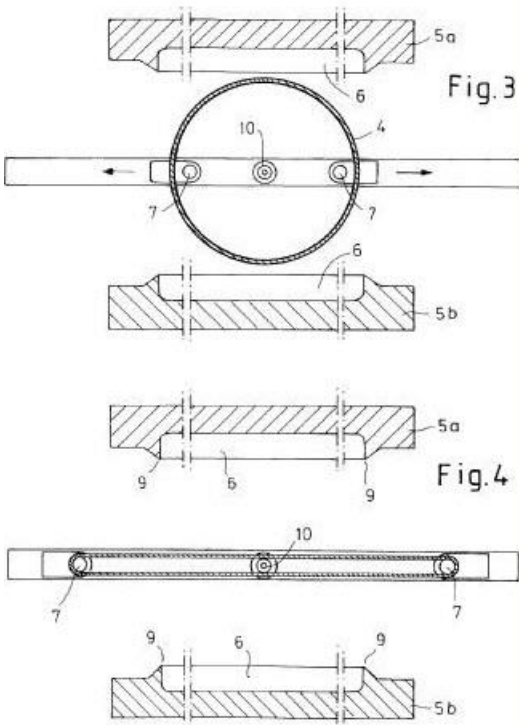
[B29C 49/4247](#)

Definition statement

Replace: The existing text and figure with the following updated text and figure.

Spreading the open end or other parts of the preform or parison by mechanical means or vacuum grippers before blow-moulding.

Illustrative example of subject matter classified in this group:



References:

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

Informative references

Attention is drawn to the following places, which may be of interest for search:

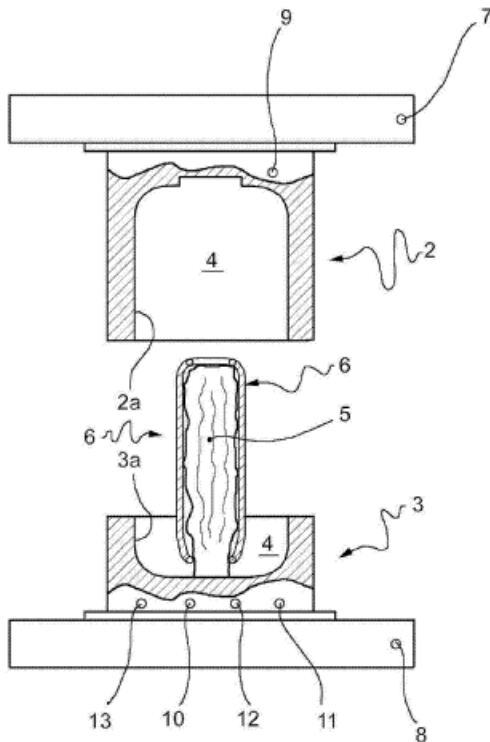
Shaping of tube ends	B29C 57/00
----------------------	----------------------------

B29C 49/44

Definition statement

Replace: The existing text and figure with the following updated text and figure.

Illustrative example of subject matter classified in this group:



B29C 49/46

Definition statement

Replace: The seventh line of the Definition Statement with the following updated text.

- Incompressible blowing fluids, e.g. filling liquid is used as blowing fluid

DATE: MAY 1, 2022

PROJECT RP10424

References:

Informative references:

Attention is drawn to the following places, which may be of interest for search:

Replace: The text in the third reference row with the following updated text.

Concurrent cleaning, filling and closing of bottles without a blow-moulding operation	B67C 7/00
---	---------------------------

Special rules of classification

Replace: The existing Special rules text with the following updated text.

Incompressible blowing fluids which stay in the formed container after blow-moulding have to be also classified in [B65B 3/022](#).

[B29C 49/4802](#)

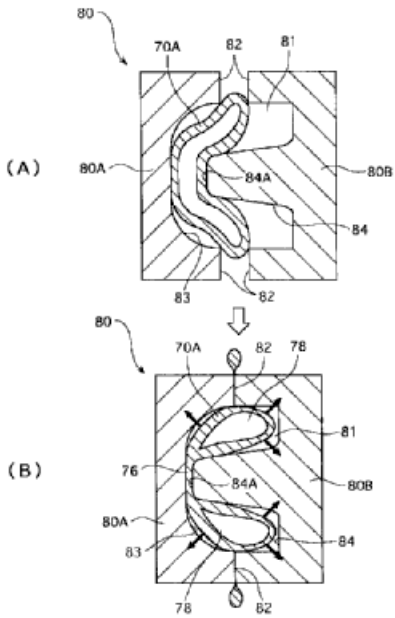
Definition statement

Replace: The existing text and figure with the following updated text and figure.

Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

PROJECT RP10424



B29C 49/4815

Definition statement

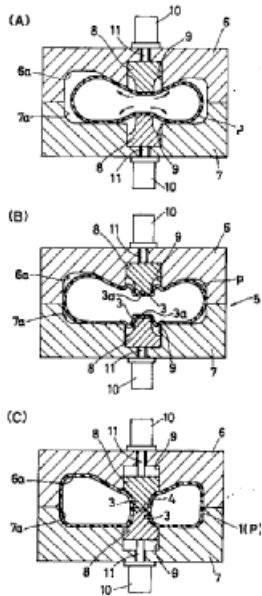
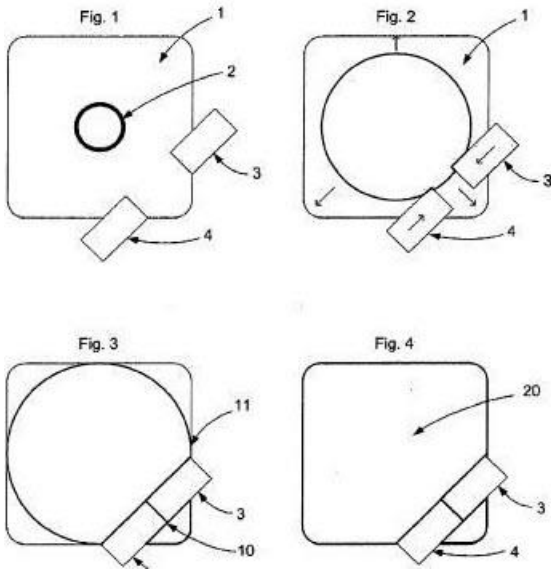
Replace: The existing text and figures with the following updated text and figures.

Illustrative example of subject matter classified in this group:

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

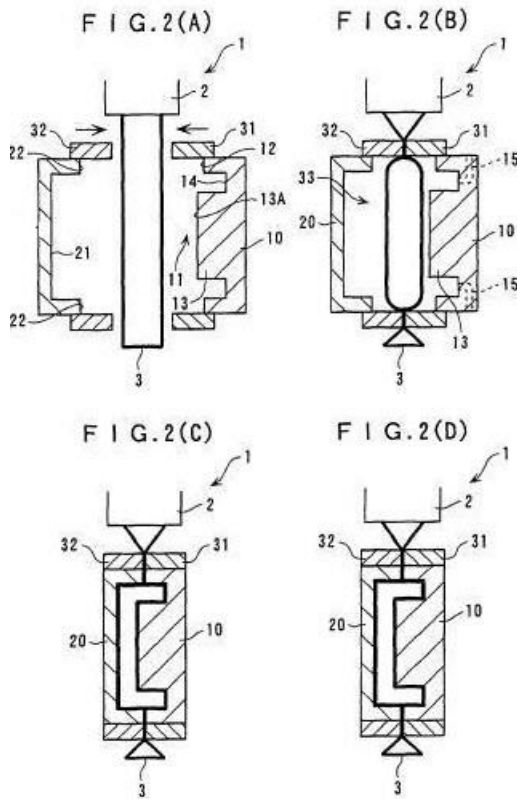


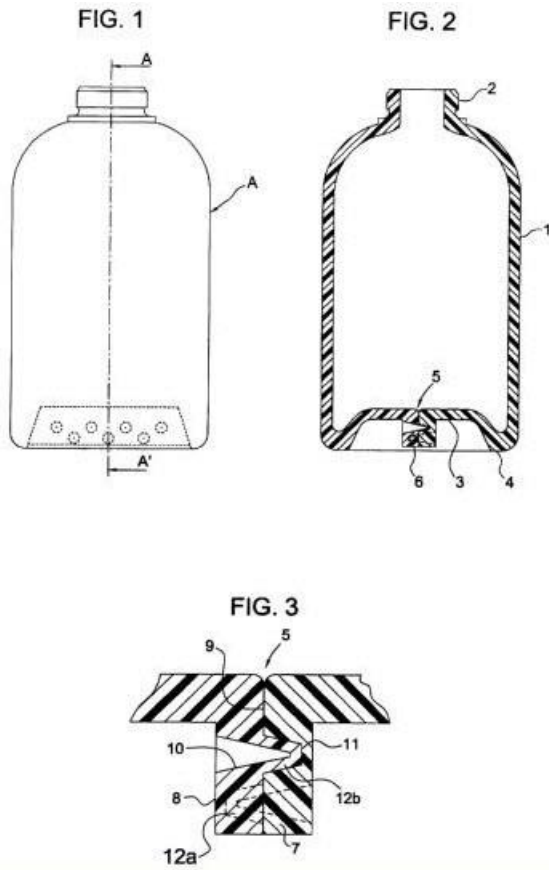
B29C 49/4817

Definition statement

Replace: The existing text and figures with the following updated text and figures.

Illustrative example of subject matter classified in this group:





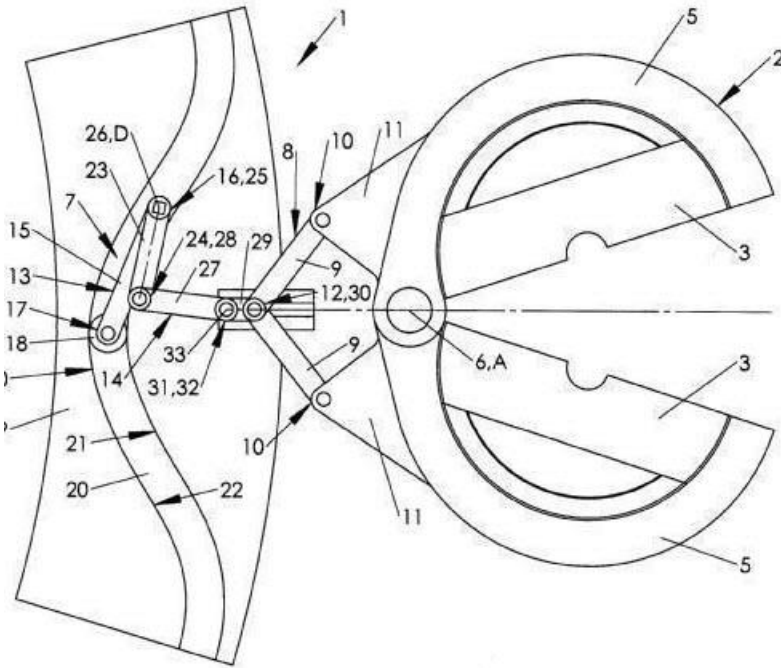
B29C 49/56

Definition statement

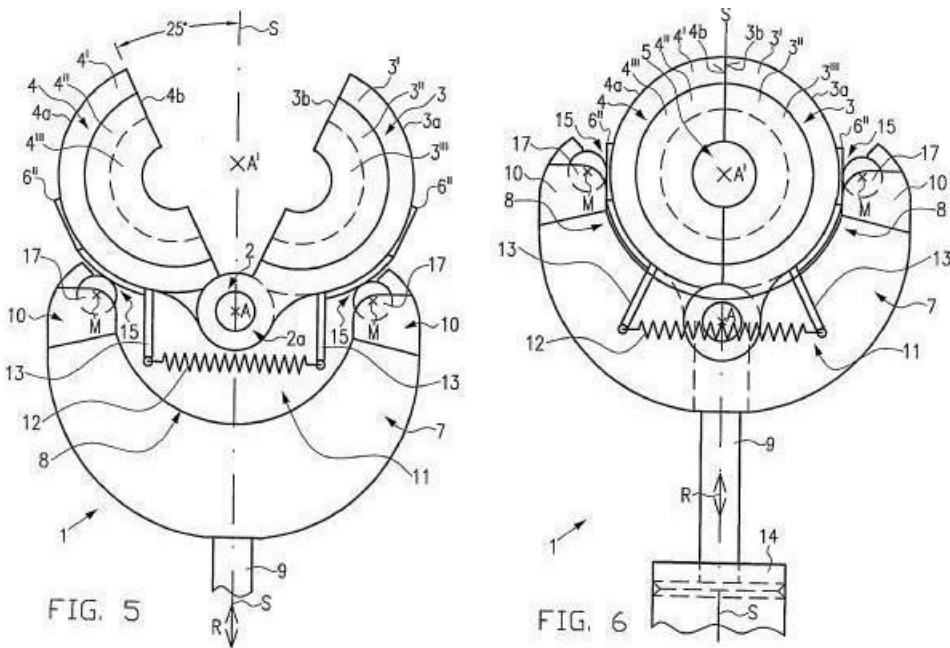
Replace: The existing text and figures with the following updated text and figures.

Illustrative example of subject matter classified in this group:

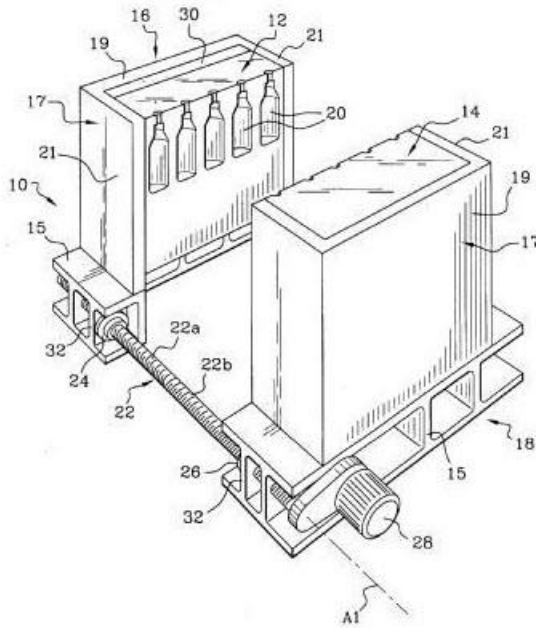
Cam driven opening and closing means



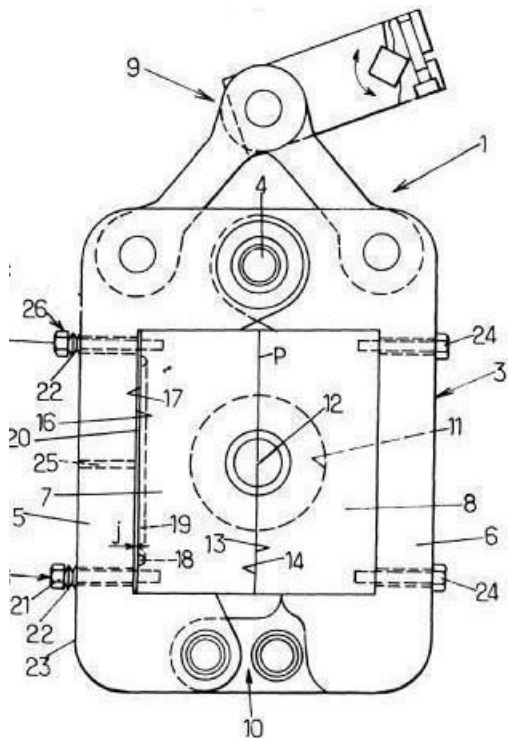
Mechanical opening closing mechanism

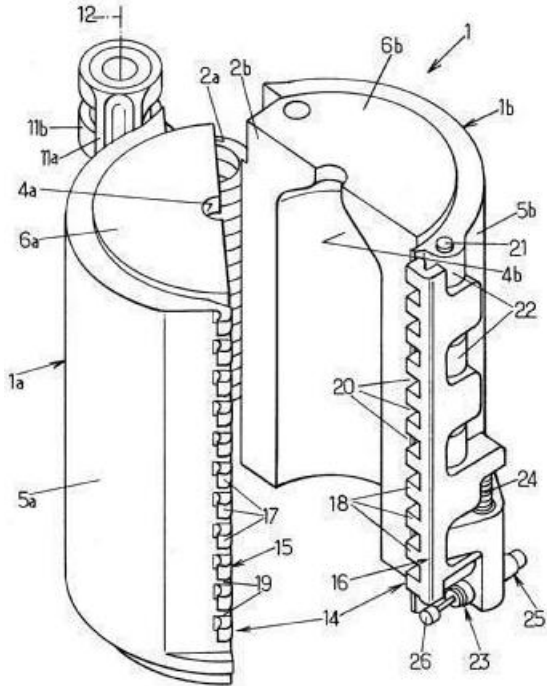


Spindle driven (screw driven) opening closing mechanism



Fluid driven clamping means via channel 25



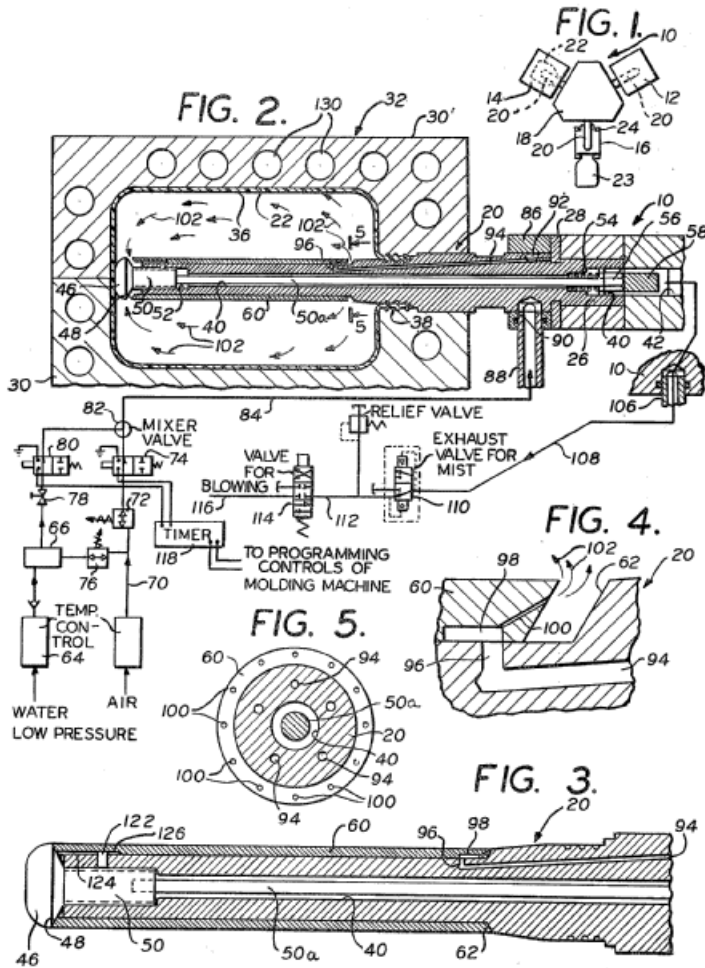


B29C 49/58

Definition statement

Replace: The existing text and figures with the following updated text and figures.

Illustrative example of subject matter classified in this group:

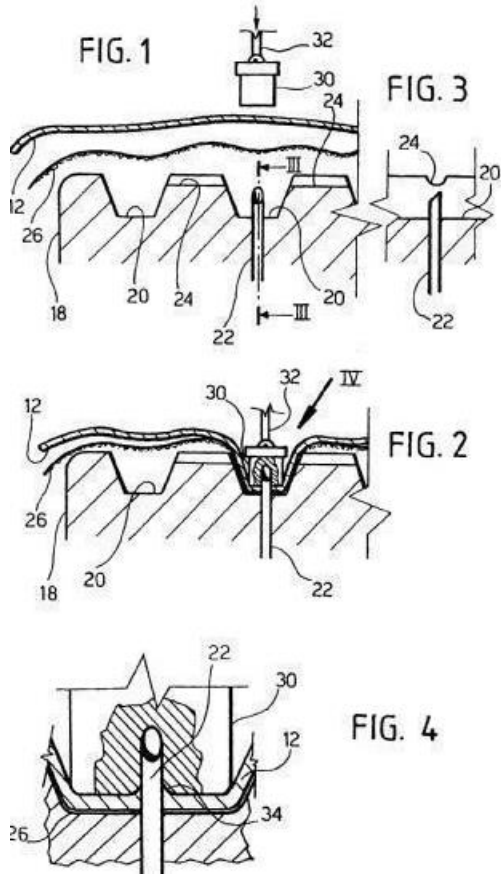


B29C 49/60

Definition statement

Replace: The existing text and figures with the following updated text and figures.

Illustrative example of subject matter classified in this group:



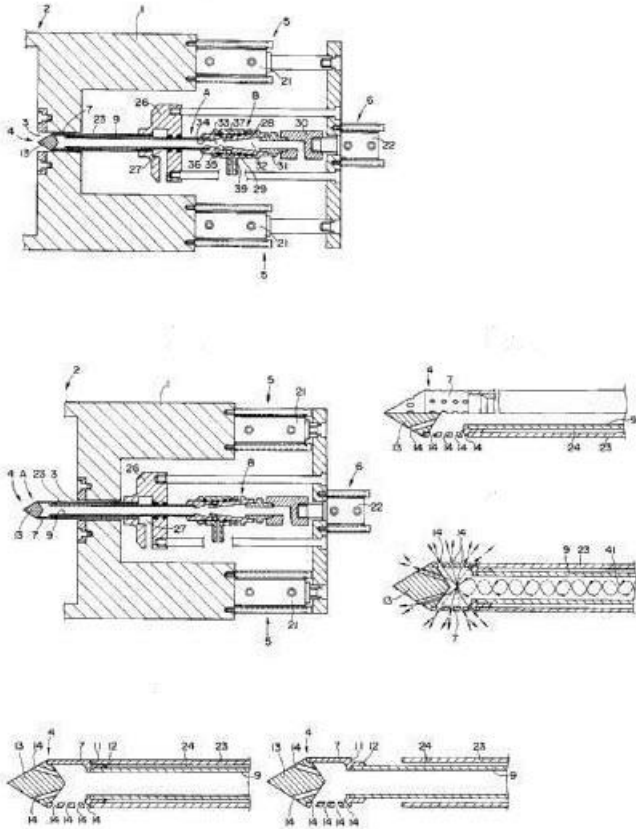
Support 30 facilitates the piercing of the parison

Retractable blow needle, the blow needle has special blow openings

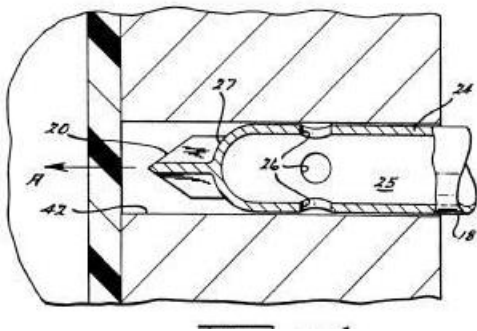
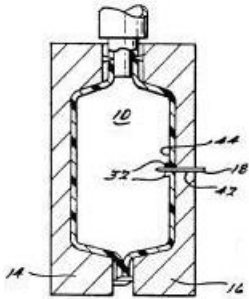
CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424



Blow needle has special means to facilitate the piercing

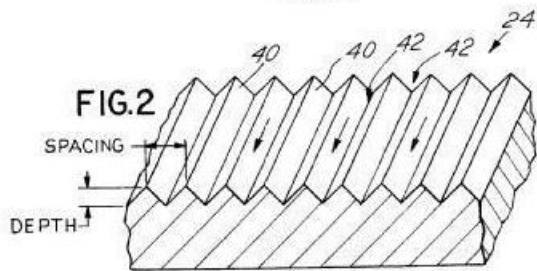
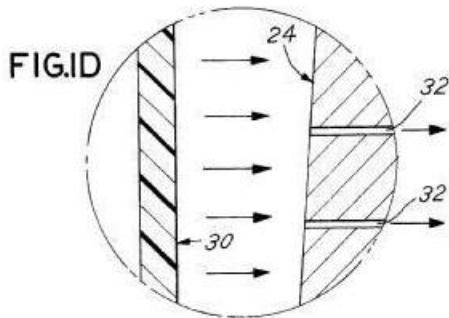
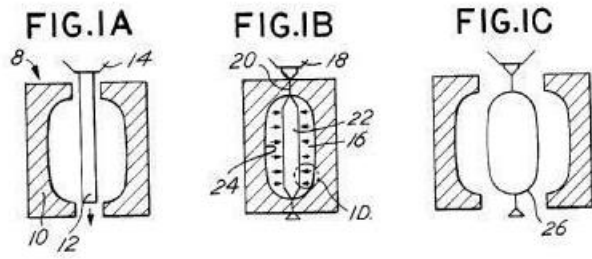


B29C 49/62

Definition statement

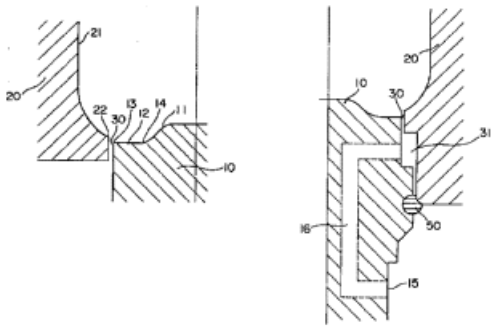
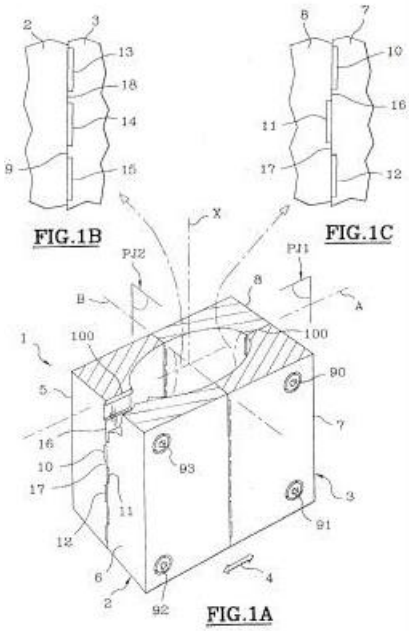
Replace: The existing text and figures with the following updated text and figures.

Illustrative example of subject matter classified in this group:



DATE: MAY 1, 2022

PROJECT RP10424



B29C 49/64

References:

Delete: The entire Limiting references section.

DATE: MAY 1, 2022

PROJECT RP10424

Informative references:

Attention is drawn to the following places, which may be of interest for search.

Replace: The existing Informative references table text with the following updated text.

Heating of preforms in general	B29B 13/023
Heating, cooling or curing in general	B29C 35/00
Cooling of preforms after an injection moulding process, said cooled preforms being used in a following blow-moulding process	B29C 45/7207

B29C 49/6409**Definition statement**

Replace: The existing Definition statement text with the following updated text.

Heating and cooling preforms before the blow-moulding operation.

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Ovens specially adapted for heating preforms or parisons	B29C 49/68
--	----------------------------

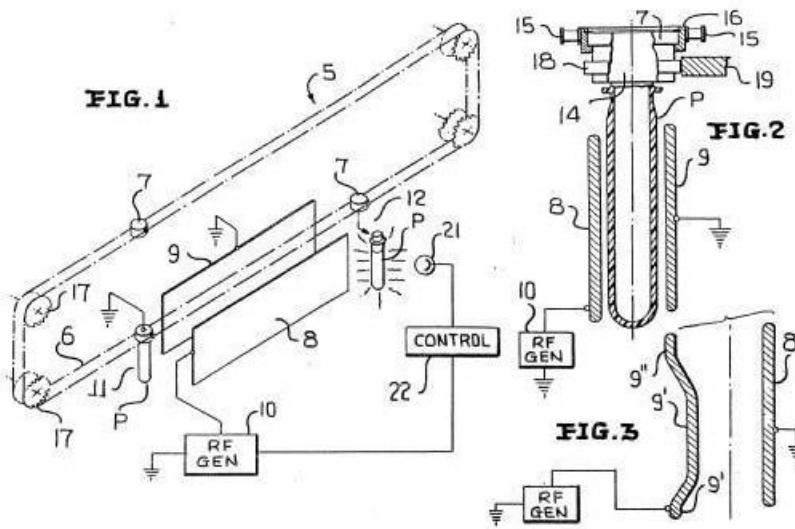
B29C 49/6418

Definition statement

Replace: The existing text and figures with the following updated text and figures.

Heating cold preforms in one continuous uninterrupted heating phase.

Illustrative example of subject matter classified in this group:



Row of preforms are transported through a heating oven

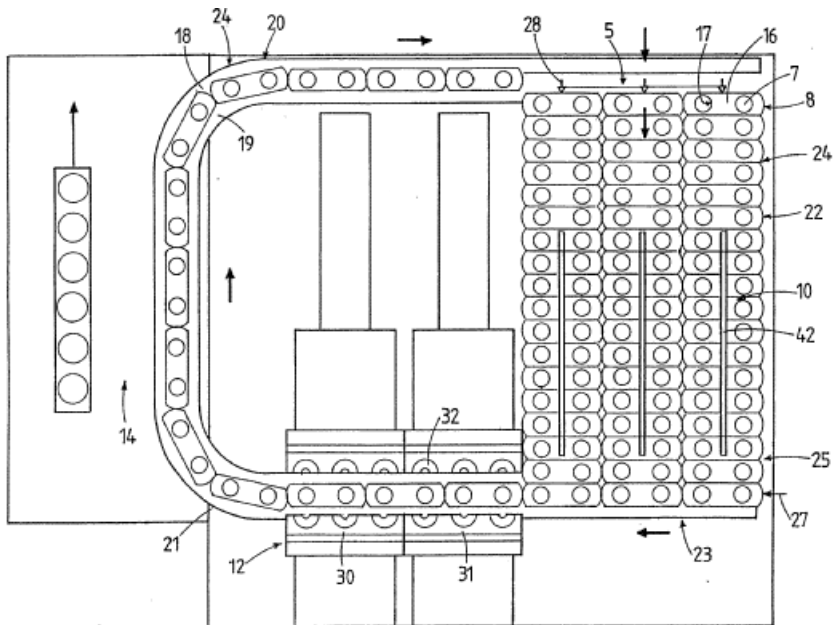


FIG. 2

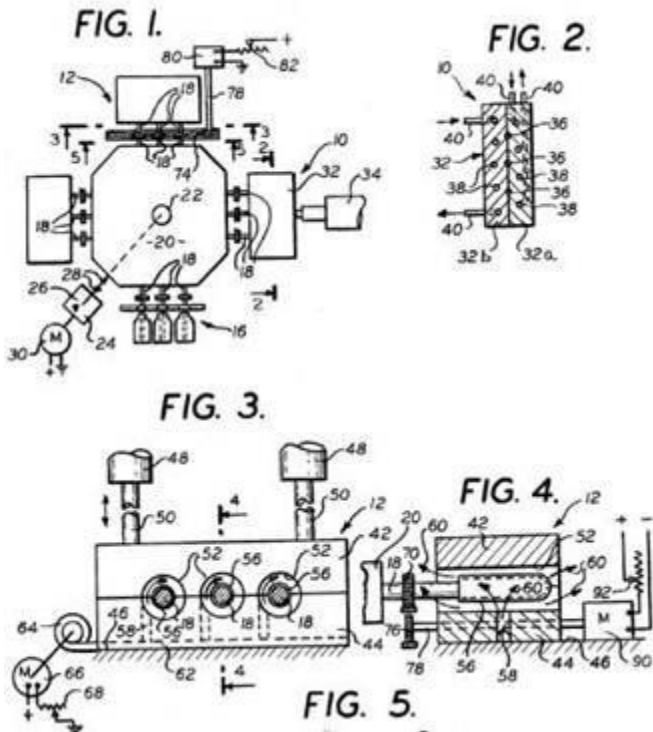
B29C 49/6427

Definition statement

Replace: The existing text and figure with the following updated text and figure.

Cooling hot or molten preforms in one continuous uninterrupted cooling phase (mainly for injection moulded preforms who do not have the correct blow-moulding temperature yet).

Illustrative example of subject matter classified in this group:

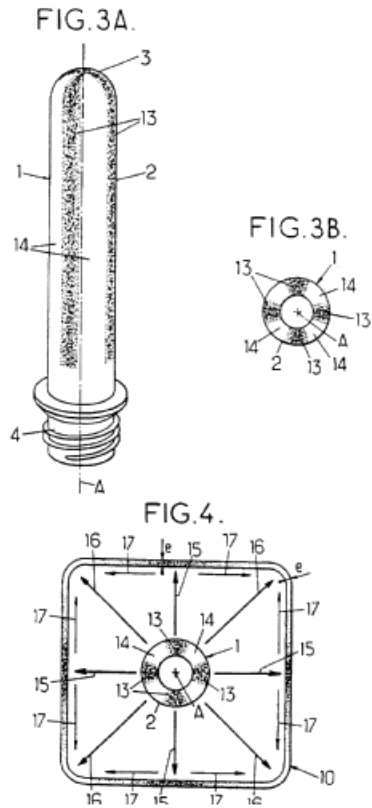


B29C 49/6436

Definition statement

Replace: The existing text and figure with the following updated text and figure.

Illustrative example of subject matter classified in this group:

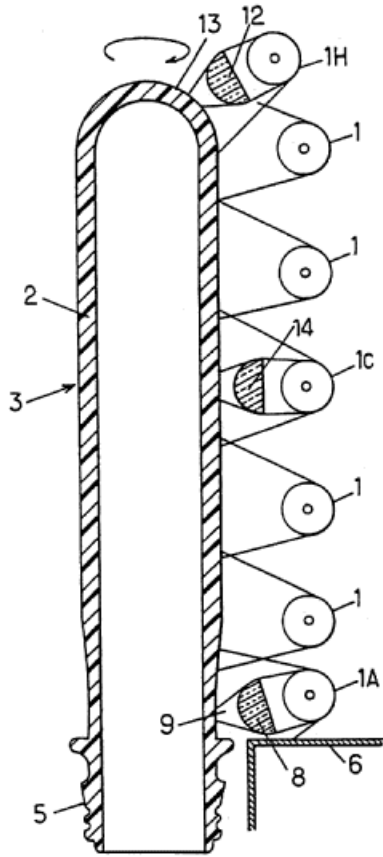


B29C 49/6445

Definition statement

Replace: The existing text and figure with the following updated text and figure.

Illustrative example of subject matter classified in this group:



B29C 49/6454

Definition statement

Replace: The existing text and figures with the following updated text and figures.

Illustrative example of subject matter classified in this group:

Heating apparatus or method that creates a desired temperature profile through a preform.

DATE: MAY 1, 2022

PROJECT RP10424

FIG. 1.

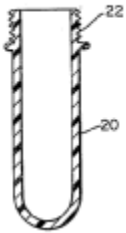


FIG. 2.

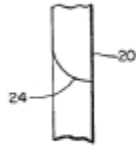
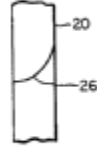
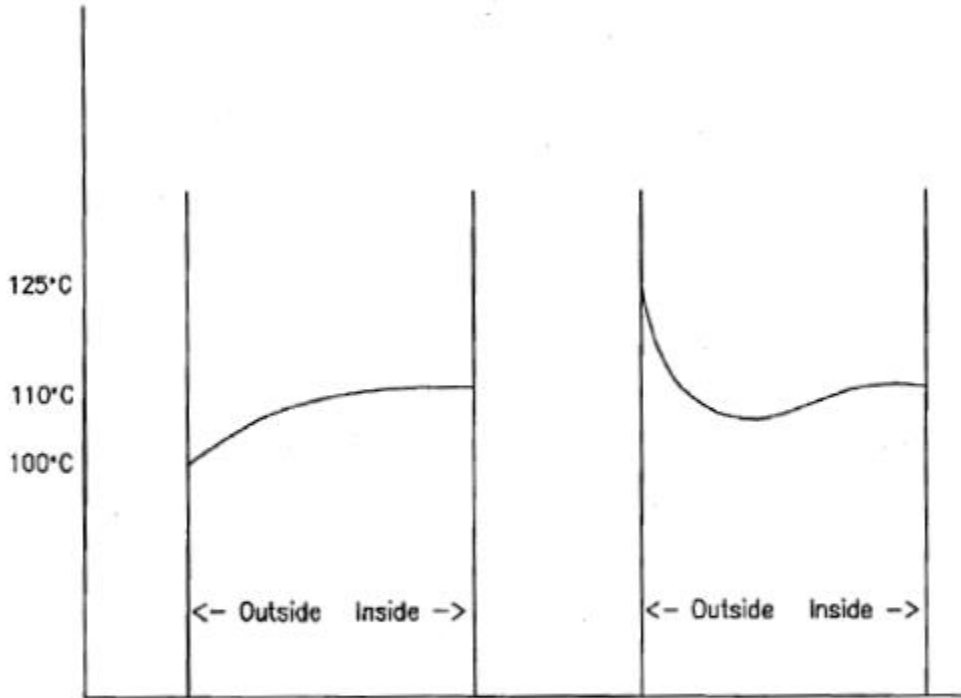


FIG. 3.



PREFORM TEMPERATURE GRADIENT



Typical Bottle Temperature Profile

Desired Bottle Temperature Profile

DATE: MAY 1, 2022

PROJECT RP10424

B29C 49/70

Definition statement

Replace: The existing text with the following updated text, maintaining the figures.

Means to facilitate the removing or ejecting of blown articles from the mould.
These ejecting means are typically located in the mould.

Illustrative example of subject matter classified in this group:

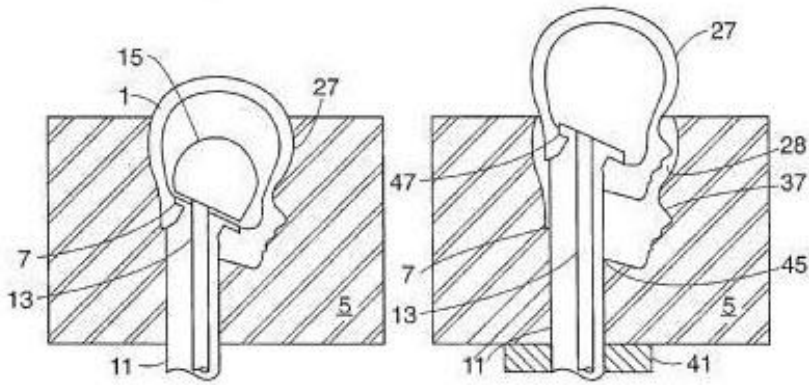


FIG. 4

FIG. 5

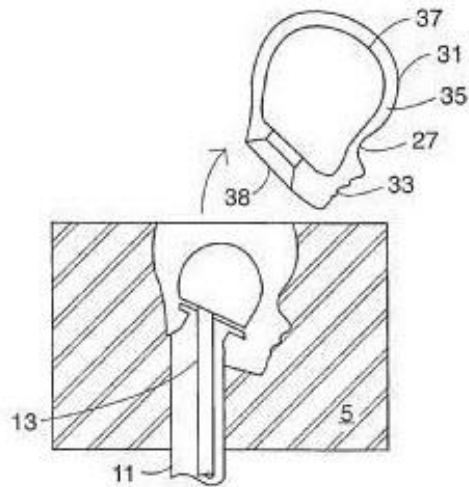
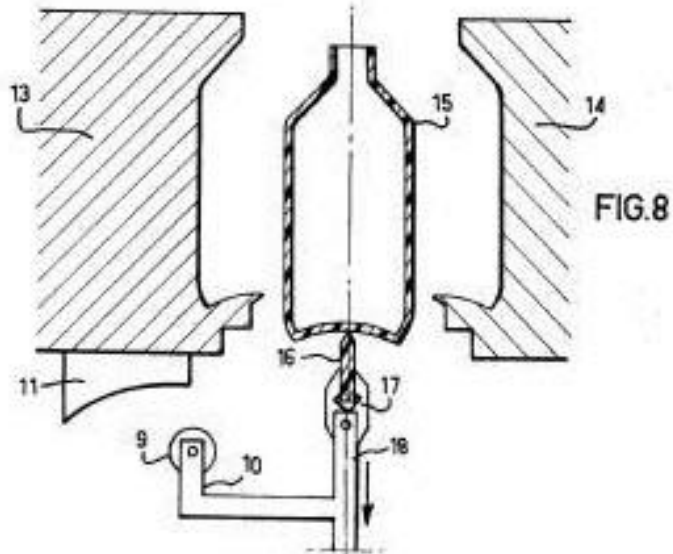
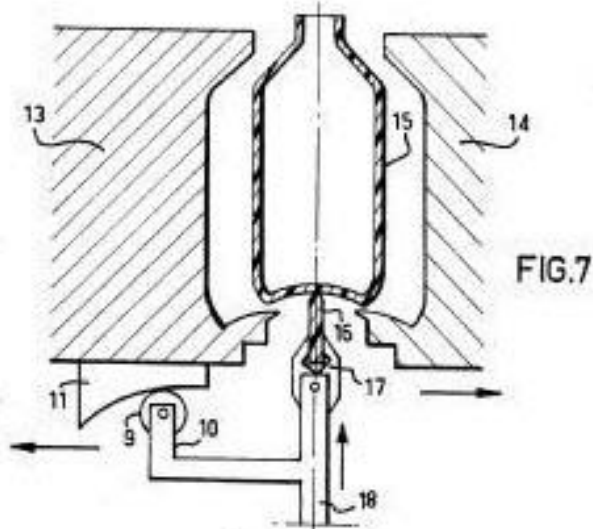
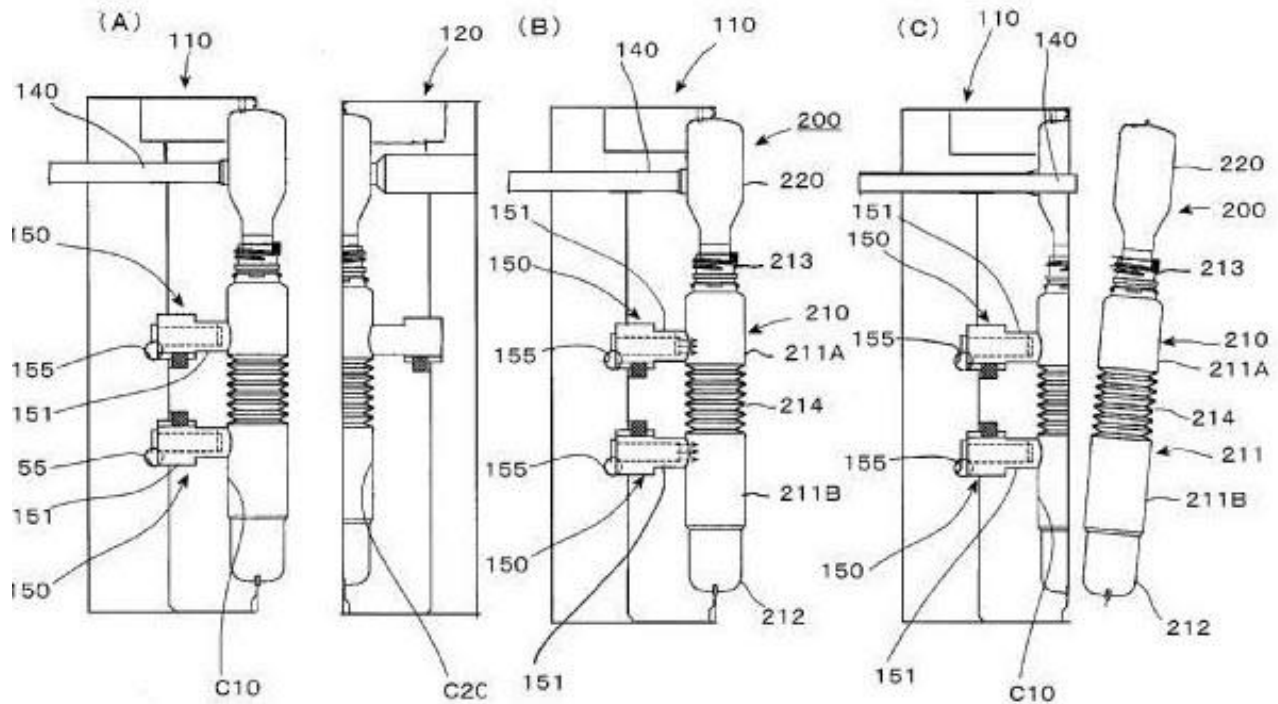


FIG. 6





References:

Delete: The entire Limiting references section.

Informative references:

Attention is drawn to the following places, which may be of interest for search:

Insert: The following new reference in the Informative references table.

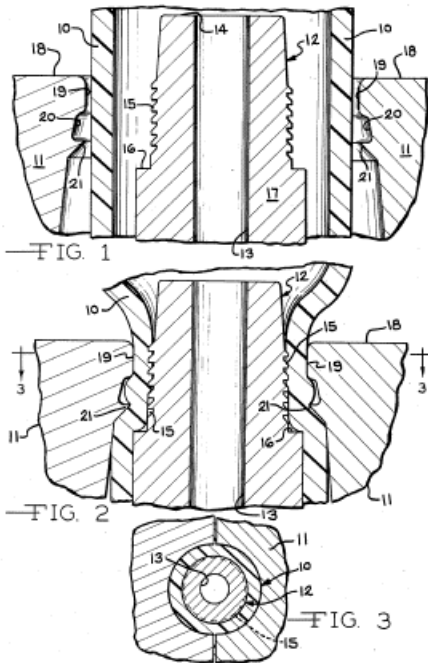
Means explicitly adapted for transporting blown articles	B29C 49/42069
--	-------------------------------

B29C 49/76

Definition statement

Replace: The existing text and figures with the following updated text and figures.

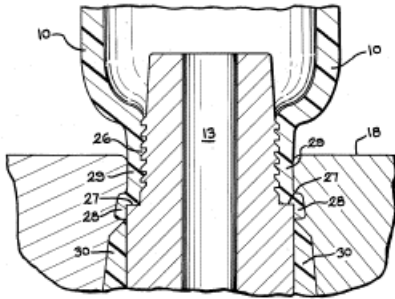
Illustrative example of subject matter classified in this group:



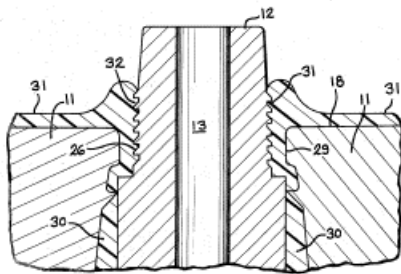
Illustrative example of subject matter classified in this group:

DATE: MAY 1, 2022

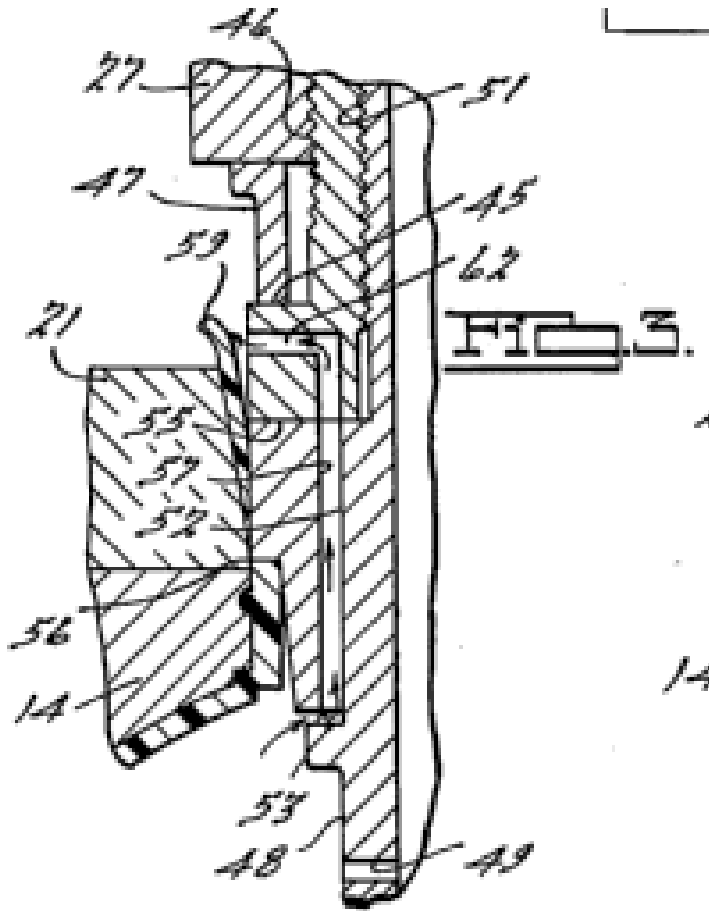
PROJECT RP10424



—FIG 4



—FIG 5



B29C 49/80

Definition statement

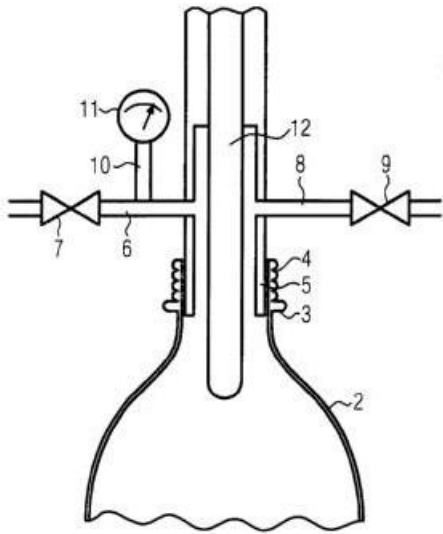
Replace: The existing text and figure with the following updated text and figure.

Illustrative example of subject matter classified in this group:

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424



CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
B29C49/0026			<u>Delete</u> the entire Definition
B29C49/0047			<u>Delete</u> the entire Definition
B29C49/0073			<u>Delete</u> the entire Definition
B29C49/0078			<u>Delete</u> the entire Definition
B29C49/0084			<u>Delete</u> the entire Definition
B29C49/022			<u>Delete</u> the entire Definition
B29C49/04	Special rules	B29C49/0073	B29C 49/071
B29C49/221			<u>Delete</u> the entire Definition
B29C49/421			<u>Delete</u> the entire Definition
B29C49/4215			<u>Delete</u> the entire Definition
B29C49/6481			<u>Delete</u> the entire Definition
B29C49/649			<u>Delete</u> the entire Definition
B29C49/78			<u>Delete</u> the entire Definition

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29B 2911/00	<administrative transfer to B29C 2949/07>
D	B29B 2911/14	<administrative transfer to B29C 2949/07>
D	B29B 2911/14006	<administrative transfer to B29C 2949/20>
D	B29B 2911/14013	<administrative transfer to B29C 2949/20>
D	B29B 2911/1402	<administrative transfer to B29C 2949/22>
D	B29B 2911/14026	<administrative transfer to B29C 2949/24>
D	B29B 2911/14033	<administrative transfer to B29C 2949/26>
D	B29B 2911/1404	<administrative transfer to B29C 2949/28>
D	B29B 2911/14046	<administrative transfer to B29C 2949/30>
D	B29B 2911/14053	<administrative transfer to B29C 2949/3008>
D	B29B 2911/1406	<administrative transfer to B29C 2949/3009>
D	B29B 2911/14066	<administrative transfer to B29C 2949/3012>
D	B29B 2911/14073	<administrative transfer to B29C 2949/3014>
D	B29B 2911/1408	<administrative transfer to B29C 2949/3016>
D	B29B 2911/14086	<administrative transfer to B29C 2949/3018>
D	B29B 2911/14093	<administrative transfer to B29C 2949/302>
D	B29B 2911/141	<administrative transfer to B29C 2949/3022>
D	B29B 2911/14106	<administrative transfer to B29C 2949/3024>
D	B29B 2911/14113	<administrative transfer to B29C 2949/3026>
D	B29B 2911/1412	<administrative transfer to B29C 2949/3028>
D	B29B 2911/14126	<administrative transfer to B29C 2949/303>
D	B29B 2911/14133	<administrative transfer to B29C 2949/3032>
D	B29B 2911/1414	<administrative transfer to B29C 2949/3034>
D	B29B 2911/14146	<administrative transfer to B29C 2949/3036>
D	B29B 2911/14153	<administrative transfer to B29C 2949/3038>
D	B29B 2911/1416	<administrative transfer to B29C 2949/3041>
D	B29B 2911/14166	<administrative transfer to B29C 2949/3042>
D	B29B 2911/14173	<administrative transfer to B29C 2949/3044>
D	B29B 2911/1418	<administrative transfer to B29C 2949/3046>
D	B29B 2911/14186	<administrative transfer to B29C 2949/3048>
D	B29B 2911/14193	<administrative transfer to B29C 2949/3051>
D	B29B 2911/142	<administrative transfer to B29C 2949/3052>
D	B29B 2911/14206	<administrative transfer to B29C 2949/3054>
D	B29B 2911/14213	<administrative transfer to B29C 2949/3056>
D	B29B 2911/1422	<administrative transfer to B29C 2949/3058>
D	B29B 2911/14226	<administrative transfer to B29C 2949/306>
D	B29B 2911/14233	<administrative transfer to B29C 2949/3062>
D	B29B 2911/1424	<administrative transfer to B29C 2949/3064>
D	B29B 2911/14246	<administrative transfer to B29C 2949/3066>
D	B29B 2911/14253	<administrative transfer to B29C 2949/3068>
D	B29B 2911/1426	<administrative transfer to B29C 2949/307>
D	B29B 2911/14266	<administrative transfer to B29C 2949/3064>
D	B29B 2911/14273	<administrative transfer to B29C 2949/3078>
D	B29B 2911/1428	<administrative transfer to B29C 2949/308>
D	B29B 2911/14286	<administrative transfer to B29C 2949/3082>
D	B29B 2911/14293	<administrative transfer to B29C 2949/3084>
D	B29B 2911/143	<administrative transfer to B29C 2949/3086>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29B 2911/14306	<administrative transfer to B29C 2949/309>
D	B29B 2911/14313	<administrative transfer to B29C 2949/3092>
D	B29B 2911/1432	<administrative transfer to B29C 2949/07>
D	B29B 2911/14326	<administrative transfer to B29C 2949/072>
D	B29B 2911/14328	<administrative transfer to B29C 2949/0722>
D	B29B 2911/1433	<administrative transfer to B29C 2949/0723>
D	B29B 2911/14331	<administrative transfer to B29C 2949/0724>
D	B29B 2911/14332	<administrative transfer to B29C 2949/0725>
D	B29B 2911/14333	<administrative transfer to B29C 2949/073>
D	B29B 2911/14335	<administrative transfer to B29C 2949/0731>
D	B29B 2911/14336	<administrative transfer to B29C 2949/0732>
D	B29B 2911/14337	<administrative transfer to B29C 2949/0733>
D	B29B 2911/14338	<administrative transfer to B29C 2949/0734>
D	B29B 2911/1434	<administrative transfer to B29C 2949/074>
D	B29B 2911/14341	<administrative transfer to B29C 2949/0744>
D	B29B 2911/14343	<administrative transfer to B29C 2949/0745>
D	B29B 2911/14344	<administrative transfer to B29C 2949/0746>
D	B29B 2911/14345	<administrative transfer to B29C 2949/0747>
D	B29B 2911/14346	<administrative transfer to B29C 2949/075>
D	B29B 2911/14348	<administrative transfer to B29C 2949/0751>
D	B29B 2911/1435	<administrative transfer to B29C 2949/0752>
D	B29B 2911/14351	<administrative transfer to B29C 2949/0753>
D	B29B 2911/14352	<administrative transfer to B29C 2949/0754>
D	B29B 2911/14353	<administrative transfer to B29C 2949/076>
D	B29B 2911/1436	<administrative transfer to B29C 2949/0761>
D	B29B 2911/14366	<administrative transfer to B29C 2949/0762>
D	B29B 2911/14373	<administrative transfer to B29C 2949/0763>
D	B29B 2911/1438	<administrative transfer to B29C 2949/0764>
D	B29B 2911/14386	<administrative transfer to B29C 2949/0765>
D	B29B 2911/14393	<administrative transfer to B29C 2949/0766>
D	B29B 2911/144	<administrative transfer to B29C 2949/0767>
D	B29B 2911/14406	<administrative transfer to B29C 2949/0768>
D	B29B 2911/14413	<administrative transfer to B29C 2949/0769>
D	B29B 2911/1442	<administrative transfer to B29C 2949/077>
D	B29B 2911/14426	<administrative transfer to B29C 2949/0771>
D	B29B 2911/14433	<administrative transfer to B29C 2949/0772>
D	B29B 2911/1444	<administrative transfer to B29C 2949/0773>
D	B29B 2911/14446	<administrative transfer to B29C 2949/0774>
D	B29B 2911/14453	<administrative transfer to B29C 2949/0775>
D	B29B 2911/1446	<administrative transfer to B29C 2949/0776>
D	B29B 2911/14466	<administrative transfer to B29C 2949/0777>
D	B29B 2911/14473	<administrative transfer to B29C 2949/0778>
D	B29B 2911/1448	<administrative transfer to B29C 2949/0779>
D	B29B 2911/14486	<administrative transfer to B29C 2949/078>
D	B29B 2911/14493	<administrative transfer to B29C 2949/0781>
D	B29B 2911/145	<administrative transfer to B29C 2949/0782>
D	B29B 2911/14506	<administrative transfer to B29C 2949/079>
D	B29B 2911/14513	<administrative transfer to B29C 2949/0791>
D	B29B 2911/1452	<administrative transfer to B29C 2949/0792>
D	B29B 2911/14526	<administrative transfer to B29C 2949/0793>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29B 2911/14533	<administrative transfer to B29C 2949/0794>
D	B29B 2911/1454	<administrative transfer to B29C 2949/0795>
D	B29B 2911/14546	<administrative transfer to B29C 2949/0796>
D	B29B 2911/14553	<administrative transfer to B29C 2949/0797>
D	B29B 2911/1456	<administrative transfer to B29C 2949/0798>
D	B29B 2911/14566	<administrative transfer to B29C 2949/0799>
D	B29B 2911/14573	<administrative transfer to B29C 2949/08>
D	B29B 2911/1458	<administrative transfer to B29C 2949/0801>
D	B29B 2911/14586	<administrative transfer to B29C 2949/081>
D	B29B 2911/14593	<administrative transfer to B29C 2949/0811>
D	B29B 2911/146	<administrative transfer to B29C 2949/0812>
D	B29B 2911/14606	<administrative transfer to B29C 2949/0813>
D	B29B 2911/14613	<administrative transfer to B29C 2949/0814>
D	B29B 2911/1462	<administrative transfer to B29C 2949/0815>
D	B29B 2911/14626	<administrative transfer to B29C 2949/0816>
D	B29B 2911/14633	<administrative transfer to B29C 2949/0817>
D	B29B 2911/1464	<administrative transfer to B29C 2949/0818>
D	B29B 2911/14646	<administrative transfer to B29C 2949/0819>
D	B29B 2911/14653	<administrative transfer to B29C 2949/082>
D	B29B 2911/1466	<administrative transfer to B29C 2949/0821>
D	B29B 2911/14666	<administrative transfer to B29C 2949/0822>
D	B29B 2911/14673	<administrative transfer to B29C 2949/0823>
D	B29B 2911/1468	<administrative transfer to B29C 2949/0824>
D	B29B 2911/14686	<administrative transfer to B29C 2949/0825>
D	B29B 2911/14693	<administrative transfer to B29C 2949/0826>
D	B29B 2911/147	<administrative transfer to B29C 2949/0827>
D	B29B 2911/14706	<administrative transfer to B29C 2949/0828>
D	B29B 2911/14713	<administrative transfer to B29C 2949/0829>
D	B29B 2911/1472	<administrative transfer to B29C 2949/083>
D	B29B 2911/14726	<administrative transfer to B29C 2949/0831>
D	B29B 2911/14733	<administrative transfer to B29C 2949/0832>
D	B29B 2911/1474	<administrative transfer to B29C 2949/0833>
D	B29B 2911/14746	<administrative transfer to B29C 2949/0834>
D	B29B 2911/14753	<administrative transfer to B29C 2949/0835>
D	B29B 2911/1476	<administrative transfer to B29C 2949/0836>
D	B29B 2911/14766	<administrative transfer to B29C 2949/0837>
D	B29B 2911/14773	<administrative transfer to B29C 2949/0838>
D	B29B 2911/1478	<administrative transfer to B29C 2949/0839>
D	B29B 2911/14786	<administrative transfer to B29C 2949/084>
D	B29B 2911/14793	<administrative transfer to B29C 2949/0841>
D	B29B 2911/148	<administrative transfer to B29C 2949/0842>
D	B29B 2911/14806	<administrative transfer to B29C 2949/0843>
D	B29B 2911/14813	<administrative transfer to B29C 2949/0844>
D	B29B 2911/1482	<administrative transfer to B29C 2949/0845>
D	B29B 2911/14826	<administrative transfer to B29C 2949/0846>
D	B29B 2911/14833	<administrative transfer to B29C 2949/0847>
D	B29B 2911/1484	<administrative transfer to B29C 2949/0849>
D	B29B 2911/14846	<administrative transfer to B29C 2949/085>
D	B29B 2911/14853	<administrative transfer to B29C 2949/0851>
D	B29B 2911/1486	<administrative transfer to B29C 2949/0852>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29B 2911/14866	<administrative transfer to B29C 2949/0853>
D	B29B 2911/14873	<administrative transfer to B29C 2949/0854>
D	B29B 2911/1488	<administrative transfer to B29C 2949/0855>
D	B29B 2911/14886	<administrative transfer to B29C 2949/0856>
D	B29B 2911/14893	<administrative transfer to B29C 2949/086>
D	B29B 2911/149	<administrative transfer to B29C 2949/0861>
D	B29B 2911/14906	<administrative transfer to B29C 2949/0862>
D	B29B 2911/14913	<administrative transfer to B29C 2949/0863>
D	B29B 2911/1492	<administrative transfer to B29C 2949/0864>
D	B29B 2911/14926	<administrative transfer to B29C 2949/0865>
D	B29B 2911/14933	<administrative transfer to B29C 2949/0866>
D	B29B 2911/1494	<administrative transfer to B29C 2949/0867>
D	B29B 2911/14946	<administrative transfer to B29C 2949/0868>
D	B29B 2911/14953	<administrative transfer to B29C 2949/0869>
D	B29B 2911/1496	<administrative transfer to B29C 2949/087>
D	B29B 2911/14966	<administrative transfer to B29C 2949/0871>
D	B29B 2911/14973	<administrative transfer to B29K 2995/0018>
D	B29B 2911/1498	<administrative transfer to B29C 2949/0872>
D	B29B 2911/14986	<administrative transfer to B29C 49/0005>
D	B29B 2911/14993	<administrative transfer to B29K 2105/26>
C	B29C 49/00	B29C 49/00, B29C 49/006, B29C 49/0062, B29C 49/0064
C	B29C 49/0005	B29C 49/0005, B29C 49/0006
D	B29C 2049/001	<administrative transfer to B29C 49/0005>
C	B29C 49/0015	B29C 49/0015, B29C 49/0021, B29C 49/0022, B29C 49/0023, B29C 49/0024, B29C 49/0025, B29C 49/0027, B29C 49/0028, B29C 49/0029, B29C 49/003
C	B29C 49/0021	B29C 49/0021, B29C 49/0022, B29C 49/0023, B29C 49/0024, B29C 49/0025, B29C 49/0027, B29C 49/0028, B29C 49/0029, B29C 49/003
D	B29C 49/0026	<administrative transfer to B29C 49/0021>
D	B29C 2049/0036	<administrative transfer to B29C 49/1602>
C	B29C 49/0042	B29C 49/0042, B29C 49/1602
D	B29C 49/0047	<administrative transfer to B29C 49/0691>
D	B29C 2049/0052	<administrative transfer to B29C 49/06912>
D	B29C 2049/0057	<administrative transfer to B29C 49/06914>
D	B29C 2049/0063	<administrative transfer to B29C 49/06916>
D	B29C 2049/0068	<administrative transfer to B29C 49/06916>
D	B29C 49/0073	<administrative transfer to B29C 49/071>
D	B29C 49/0078	<administrative transfer to B29C 2949/074>
D	B29C 49/0084	<administrative transfer to B29C 2949/075>
D	B29C 2049/0089	<administrative transfer to B29C 2949/08>
D	B29C 2049/0094	<administrative transfer to B29C 49/006>
C	B29C 49/02	B29C 49/02, B29C 49/0208, B29C 49/0665, B29C 49/0685, B29C 49/06905, B29C 49/0691, B29C 49/06912, B29C 49/06914, B29C 49/06916, B29C 49/071
D	B29C 2049/021	<administrative transfer to B29C 2949/08>
D	B29C 49/022	<administrative transfer to B29C 2949/3032 and B29C 2949/3041 simultaneously>
D	B29C 2049/025	<administrative transfer to B29C 49/02>
D	B29C 2049/026	<administrative transfer to B29C 2949/3074>
D	B29C 2049/027	<administrative transfer to B29C 2949/3076>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29C 2049/028	<administrative transfer to B29C 49/0685>
C	B29C 49/04	B29C 49/04, B29C 49/04102, B29C 49/04104, B29C 49/04106, B29C 49/04108, B29C 49/04111, B29C 49/04112, B29C 49/04114, B29C 49/04116, B29C 49/04118, B29C 49/0412
D	B29C 2049/042	<administrative transfer to B29C 49/041>
D	B29C 2049/044	<administrative transfer to B29C 49/04102>
D	B29C 2049/045	<administrative transfer to B29C 49/04106>
D	B29C 2049/047	<administrative transfer to B29C 49/04104>
D	B29C 2049/048	<administrative transfer to B29C 49/04108>
D	B29C 2049/066	<administrative transfer to B29C 49/0064>
D	B29C 2049/067	<administrative transfer to B29C 49/0064>
D	B29C 2049/068	<administrative transfer to B29C 49/0665>
D	B29C 2049/069	<administrative transfer to B29C 49/06>
C	B29C 49/08	B29C 49/08, B29C 49/086, B29C 49/087, B29C 49/0871, B29C 49/0872
C	B29C 49/12	B29C 49/12, B29C 49/1202, B29C 49/1205, B29C 49/1206, B29C 49/1208, B29C 49/121, B29C 49/1212, B29C 49/1215, B29C 49/1216, B29C 49/1218, B29C 49/122, B29C 49/1222, B29C 49/1224, B29C 49/1226, B29C 49/1229, B29C 49/123, B29C 49/1232, B29C 49/1602
D	B29C 2049/1204	<administrative transfer to B29C 49/1202>
D	B29C 2049/1209	<administrative transfer to B29C 49/1205>
D	B29C 2049/1214	<administrative transfer to B29C 49/1206>
D	B29C 2049/1219	<administrative transfer to B29C 49/1208>
D	B29C 2049/1223	<administrative transfer to B29C 49/121>
D	B29C 2049/1228	<administrative transfer to B29C 49/1212>
D	B29C 2049/1233	<administrative transfer to B29C 49/1212>
D	B29C 2049/1238	<administrative transfer to B29C 49/1215>
D	B29C 2049/1242	<administrative transfer to B29C 49/1216>
D	B29C 2049/1247	<administrative transfer to B29C 49/1218>
D	B29C 2049/1252	<administrative transfer to B29C 49/122>
D	B29C 2049/1257	<administrative transfer to B29C 49/1222>
D	B29C 2049/1261	<administrative transfer to B29C 49/1224>
D	B29C 2049/1266	<administrative transfer to B29C 49/1226>
D	B29C 2049/1271	<administrative transfer to B29C 49/1229>
D	B29C 2049/1276	<administrative transfer to B29C 49/1229>
D	B29C 2049/128	<administrative transfer to B29C 49/1229>
D	B29C 2049/1285	<administrative transfer to B29C 49/1229>
D	B29C 2049/129	<administrative transfer to B29C 49/123>
D	B29C 2049/1295	<administrative transfer to B29C 49/1232>
C	B29C 49/16	B29C 49/16, B29C 49/1602
D	B29C 2049/165	<administrative transfer to B29C 49/1602>
C	B29C 49/18	B29C 49/18, B29C 49/1802
D	B29C 49/185	<administrative transfer to B29C 49/18>
C	B29C 49/20	B29C 49/20, B29C 2049/2071,
D	B29C 2049/2004	<administrative transfer to B29C 49/20>
D	B29C 2049/2091	<administrative transfer to B29C 49/20>
C	B29C 49/22	B29C 49/22, B29C 2949/00
D	B29C 49/221	<administrative transfer to B29C 2949/3032>
D	B29C 2049/224	<administrative transfer to B29C 2949/3008 and B29C 2949/20 simultaneously>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29C 2049/225	<administrative transfer to B29C 2949/3016 and B29C 2949/20 simultaneously>
D	B29C 2049/227	<administrative transfer to B29C 2949/3088>
D	B29C 2049/228	<administrative transfer to B29C 2949/072 and B29C 2949/30 simultaneously>
C	B29C 49/24	B29C 49/24, B29C 2049/24302, B29C 2049/24304, B29C 2049/24306, B29C 2049/24308, B29C 2049/2442, B29C 49/249, B29C 49/251
D	B29C 2049/2402	<administrative transfer to B29C 49/251>
D	B29C 2049/2406	<administrative transfer to B29C 2049/2404>
D	B29C 2049/241	<administrative transfer to B29C 49/2408>
D	B29C 2049/2416	<administrative transfer to B29C 2049/2414>
D	B29C 2049/2418	<administrative transfer to B29C 2049/2414>
D	B29C 2049/242	<administrative transfer to B29C 2049/2414>
D	B29C 2049/2427	<administrative transfer to B29C 2049/2425>
D	B29C 2049/2477	<administrative transfer to B29C 2049/2442>
D	B29C 2049/2489	<administrative transfer to B29C 2049/2441>
D	B29C 2049/2491	<administrative transfer to B29C 2049/24302>
D	B29C 2049/2493	<administrative transfer to B29C 2049/24304>
D	B29C 2049/2495	<administrative transfer to B29C 2049/24306>
D	B29C 2049/2497	<administrative transfer to B29C 2049/24308>
C	B29C 49/28	B29C 49/28, B29C 49/28002, B29C 49/28004, B29C 49/28006, B29C 49/28008, B29C 49/28012
D	B29C 2049/283	<administrative transfer to B29C 49/28008>
D	B29C 2049/286	<administrative transfer to B29C 49/28012>
C	B29C 49/42	B29C 49/42, B29C 49/42378, B29C 49/4238, B29C 49/42382, B29C 49/42384, B29C 49/42386, B29C 49/42388, B29C 49/4239, B29C 49/42392, B29C 49/42394, B29C 49/42396, B29C 49/42398, B29C 49/424, B29C 49/42402, B29C 49/42403, B29C 49/42405, B29C 49/42407, B29C 49/42408, B29C 49/42409, B29C 49/4241, B29C 49/42412, B29C 49/42413, B29C 49/42414, B29C 49/42416, B29C 49/42418, B29C 49/4242, B29C 49/42421, B29C 49/42422, B29C 49/42424, B29C 49/42426, B29C 49/42428, B29C 49/4244, B29C 49/42442, B29C 49/42444, B29C 49/42446, B29C 49/42448, B29C 49/4245, B29C 49/42452, B29C 49/42454, B29C 49/425, B29C 49/4251, B29C 49/427, B29C 49/428, B29C 49/42802, B29C 49/42806, B29C 49/42808, B29C 49/42809, B29C 49/4281, B29C 49/42811, B29C 49/42815, B29C 49/42817, B29C 49/4282, B29C 49/42822, B29C 49/42824, B29C 49/42826, B29C 49/42828, B29C 49/4283, B29C 49/42832, B29C 49/42834, B29C 49/42836, B29C 49/42845, B29C 49/4285, B29C 49/42855, B29C 49/4286, B29C 49/42865, B29C 49/4287, B29C 2049/4296, B29C 2049/4298, B29C 2049/431
C	B29C 49/4205	B29C 49/4205, B29C 49/42051, B29C 49/42053, B29C 49/42055, B29C 49/42057, B29C 49/42059, B29C 49/42061, B29C 49/42063, B29C 49/42065, B29C 49/42067, B29C 49/42069, B29C 49/4207, B29C 49/42071, B29C 49/42073, B29C 49/42075, B29C 49/42077, B29C 49/42079, B29C 49/42081, B29C 49/42083, B29C 49/42085, B29C 49/42087, B29C 49/42089, B29C 49/42091, B29C 49/42093, B29C 49/42095, B29C 49/42097, B29C 49/42099, B29C 49/42101, B29C 49/42103, B29C 49/42105, B29C 49/42107, B29C 49/42109, B29C 49/42111, B29C 49/42113, B29C 49/42115, B29C 49/42117, B29C 49/42119, B29C 49/42121, B29C 49/42155

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29C 49/421	<administrative transfer to B29C 49/42069>
D	B29C 49/4215	<administrative transfer to B29C 49/42122>
D	B29C 2049/4221	<administrative transfer to B29C 49/42105>
D	B29C 2049/4226	<administrative transfer to B29C 49/42119>
D	B29C 2049/4231	<administrative transfer to B29C 49/42057>
C	B29C 49/4236	B29C 49/4236, B29C 49/42362, B29C 49/4237, B29C 49/42372, B29C 49/42374, B29C 49/42376
D	B29C 2049/4257	<administrative transfer to B29C 2049/4854>
D	B29C 2049/4263	<administrative transfer to B29C 2049/4854>
C	B29C 49/4284	B29C 49/4284, B29C 49/42845, B29C 49/4285, B29C 49/42855, B29C 49/4286, B29C 49/42865, B29C 49/4287
C	B29C 49/46	B29C 49/46, B29C 2049/4698, B29C 2049/4699
D	B29C 2049/4682	<administrative transfer to B29C 49/42414>
D	B29C 2049/4685	<administrative transfer to B29C 49/4273>
D	B29C 2049/4688	<administrative transfer to B29C 49/4273>
D	B29C 2049/4691	<administrative transfer to B29C 49/42834>
D	B29C 2049/4694	<administrative transfer to B29C 49/42403>
C	B29C 49/48	B29C 49/48, B29C 49/48185, B29C 49/4819, B29C 2049/48615, B29C 2049/4862, B29C 2049/4863, B29C 2049/4874, B29C 2049/4881, B29C 2049/48825, B29C 2049/4883
D	B29C 2049/4812	<administrative transfer to B29C 49/4812>
D	B29C 2049/4828	<administrative transfer to B29C 2049/4825>
D	B29C 2049/4841	<administrative transfer to B29C 2049/4838>
D	B29C 2049/4843	<administrative transfer to B29C 2049/4848>
D	B29C 2049/4869	<administrative transfer to B29C 49/48185>
D	B29C 2049/4871	<administrative transfer to B29C 49/4819>
C	B29C 2049/4882	B29C 2049/4882, B29C 2049/48825, B29C 2049/4883
D	B29C 2049/4897	<administrative transfer to B29C 49/487105>
C	B29C 49/56	B29C 49/56, B29C 49/5601, B29C 49/5602, B29C 49/5603, B29C 49/5604, B29C 49/5605, B29C 49/5606, B29C 49/5607, B29C 49/5608, B29C 49/561, B29C 49/5611, B29C 49/5612, B29C 49/5613, B29C 49/5614, B29C 2049/5631, B29C 2049/5632, B29C 2049/5633, B29C 2049/5634, B29C 2049/5635, B29C 2049/5636, B29C 2049/5661, B29C 2049/5662, B29C 2049/5663, B29C 2049/5664, B29C 2049/5665, B29C 2049/5666
D	B29C 2049/5803	<administrative transfer to B29C 49/58>
C	B29C 2049/5893	B29C 2049/5893, B29C 2049/5898
C	B29C 49/60	B29C 49/60, B29C 2049/6091, B29C 2049/6092
D	B29C 2049/6009	<administrative transfer to B29C 49/60>
C	B29C 49/62	B29C 49/62, B29C 2049/6271, B29C 2049/6272
D	B29C 2049/625	<administrative transfer to B29C 2049/622>
C	B29C 49/64	B29C 49/4268, B29C 49/4273, B29C 49/64, B29C 49/6419, B29C 49/64195, B29C 49/642, B29C 49/6427, B29C 49/643, B29C 49/6435, B29C 49/645, B29C 49/6452, B29C 49/6458, B29C 49/6462, B29C 49/6464, B29C 49/6465, B29C 49/6466, B29C 49/6467, B29C 49/648
D	B29C 49/6481	<administrative transfer to B29C 49/18 and B29C 49/6472 simultaneously>
D	B29C 49/649	<administrative transfer to B29C 49/6472 and B29C 49/642 simultaneously>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	B29C 49/66	B29C 49/66, B29C 49/6604, B29C 49/6605, B29C 49/66055, B29C 2049/6606, B29C 2049/671
D	B29C 2049/663	<administrative transfer to B29C 2049/6607>
D	B29C 2049/6638	<administrative transfer to B29C 2049/6607>
C	B29C 49/68	B29C 49/68, B29C 49/681, B29C 49/682, B29C 49/6825, B29C 49/683, B29C 49/6835, B29C 49/684, B29C 49/6845, B29C 49/685, B29C 49/6855
C	B29C 49/70	B29C 49/4273, B29C 49/70, B29C 2049/709
D	B29C 2049/704	<administrative transfer to B29C 2049/701>
D	B29C 2049/705	<administrative transfer to B29C 2049/701>
C	B29C 49/76	B29C 49/4268, B29C 49/4273, B29C 49/76, B29C 49/761
C	B29C 49/78	B29C 49/4268, B29C 49/4273, B29C 49/78, B29C 2049/7831, B29C 2049/7832, B29C 2049/7833, B29C 2049/7834, B29C 2049/7835, B29C 2049/7861, B29C 2049/7862, B29C 2049/7863, B29C 2049/7864, B29C 2049/78645, B29C 2049/7865, B29C 2049/7866, B29C 2049/7867, B29C 2049/78675, B29C 2049/7868, B29C 2049/787, B29C 2049/78705, B29C 2049/7871, B29C 2049/78715, B29C 2049/7873, B29C 2049/7874, B29C 2049/78745, B29C 2049/7875, B29C 2049/78755, B29C 2049/7876, B29C 2049/78765, B29C 2049/7878, B29C 2049/7879, B29C 2049/788, B29C 2049/78805, B29C 2049/7881, B29C 2049/78815, B29C 2049/7882
C	B29C 49/80	B29C 49/80, B29C 2049/801

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
C	B29C 2949/00	B29C 2949/00, B29C 2949/07, B29C 2949/071, B29C 2949/0715, B29C 2949/072, B29C 2949/0721, B29C 2949/0722, B29C 2949/0723, B29C 2949/0724, B29C 2949/0725, B29C 2949/073, B29C 2949/0731, B29C 2949/0732, B29C 2949/0733, B29C 2949/0734, B29C 2949/074, B29C 2949/0741, B29C 2949/0742, B29C 2949/0744, B29C 2949/0745, B29C 2949/0746, B29C 2949/0747, B29C 2949/075, B29C 2949/0751, B29C 2949/0752, B29C 2949/0753, B29C 2949/0754, B29C 2949/076, B29C 2949/0761, B29C 2949/0762, B29C 2949/0763, B29C 2949/0764, B29C 2949/0765, B29C 2949/0766, B29C 2949/0767, B29C 2949/0768, B29C 2949/0769, B29C 2949/077, B29C 2949/0771, B29C 2949/0772, B29C 2949/0773, B29C 2949/0774, B29C 2949/0775, B29C 2949/0776, B29C 2949/0777, B29C 2949/0778, B29C 2949/0779, B29C 2949/078, B29C 2949/0781, B29C 2949/0782, B29C 2949/079, B29C 2949/0791, B29C 2949/0792, B29C 2949/0793, B29C 2949/0794, B29C 2949/0795, B29C 2949/0796, B29C 2949/0797, B29C 2949/0798, B29C 2949/0799, B29C 2949/08, B29C 2949/0801, B29C 2949/081, B29C 2949/0811, B29C 2949/0812, B29C 2949/0813, B29C 2949/0814, B29C 2949/0815, B29C 2949/0816, B29C 2949/0817, B29C 2949/0818, B29C 2949/0819, B29C 2949/082, B29C 2949/0821, B29C 2949/0822, B29C 2949/0823, B29C 2949/0824, B29C 2949/0825, B29C 2949/0826, B29C 2949/0827, B29C 2949/0828, B29C 2949/0829, B29C 2949/083, B29C 2949/0831, B29C 2949/0832, B29C 2949/0833, B29C 2949/0834, B29C 2949/0835, B29C 2949/0836, B29C 2949/0837, B29C 2949/0838, B29C 2949/0839, B29C 2949/084, B29C 2949/0841, B29C 2949/0842, B29C 2949/0843, B29C 2949/0844, B29C 2949/0845, B29C 2949/0846, B29C 2949/0847, B29C 2949/0849, B29C 2949/085, B29C 2949/0851, B29C 2949/0852, B29C 2949/0853, B29C 2949/0854, B29C 2949/0855, B29C 2949/0856, B29C 2949/086, B29C 2949/0861, B29C 2949/0862, B29C 2949/0863, B29C 2949/0864, B29C 2949/0865, B29C 2949/0866, B29C 2949/0867, B29C 2949/0868, B29C 2949/0869, B29C 2949/087, B29C 2949/0871, B29C 2949/0872, B29C 2949/20, B29C 2949/22, B29C 2949/24, B29C 2949/26, B29C 2949/28, B29C 2949/30, B29C 2949/3004, B29C 2949/3006, B29C 2949/3008, B29C 2949/3009, B29C 2949/3012, B29C 2949/3014, B29C 2949/3016, B29C 2949/3018, B29C 2949/302, B29C 2949/3022, B29C 2949/3024, B29C 2949/3026, B29C 2949/3028, B29C 2949/303, B29C 2949/3032, B29C 2949/3034, B29C 2949/3036, B29C 2949/3038, B29C 2949/3041, B29C 2949/3042, B29C 2949/3044, B29C 2949/3046, B29C 2949/3048, B29C 2949/3051, B29C 2949/3052, B29C 2949/3054, B29C 2949/3056, B29C 2949/3058, B29C 2949/306, B29C 2949/3062, B29C 2949/3064, B29C 2949/3066, B29C 2949/3068, B29C 2949/307, B29C 2949/3074, B29C 2949/3076, B29C 2949/3078, B29C 2949/308, B29C 2949/3082, B29C 2949/3084, B29C 2949/3086, B29C 2949/3088, B29C 2949/309, B29C 2949/3092, B29C 2949/3094
D	B29C 2949/78	<administrative transfer to B29C 49/78>
D	B29C 2949/78008	<administrative transfer to B29C 49/78>
D	B29C 2949/78016	<administrative transfer to B29C 49/78>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29C 2949/78025	<administrative transfer to B29C 49/78>
D	B29C 2949/78033	<administrative transfer to B29C 49/78>
D	B29C 2949/78042	<administrative transfer to B29C 49/78>
D	B29C 2949/7805	<administrative transfer to B29C 49/78>
D	B29C 2949/78058	<administrative transfer to B29C 49/78>
D	B29C 2949/78067	<administrative transfer to B29C 49/78>
D	B29C 2949/78075	<administrative transfer to B29C 49/78>
D	B29C 2949/78084	<administrative transfer to B29C 49/78>
D	B29C 2949/78092	<administrative transfer to B29C 49/78>
D	B29C 2949/781	<administrative transfer to B29C 49/78>
D	B29C 2949/78109	<administrative transfer to B29C 49/78>
D	B29C 2949/78117	<administrative transfer to B29C 49/78>
D	B29C 2949/78126	<administrative transfer to B29C 49/78>
D	B29C 2949/78134	<administrative transfer to B29C 49/78>
D	B29C 2949/78142	<administrative transfer to B29C 49/78>
D	B29C 2949/78151	<administrative transfer to B29C 49/78>
D	B29C 2949/78159	<administrative transfer to B29C 49/78>
D	B29C 2949/78168	<administrative transfer to B29C 49/78>
D	B29C 2949/78176	<administrative transfer to B29C 49/78>
D	B29C 2949/78184	<administrative transfer to B29C 49/78>
D	B29C 2949/78193	<administrative transfer to B29C 49/78>
D	B29C 2949/78201	<administrative transfer to B29C 49/78>
D	B29C 2949/7821	<administrative transfer to B29C 49/78>
D	B29C 2949/78218	<administrative transfer to B29C 49/78>
D	B29C 2949/78226	<administrative transfer to B29C 49/78>
D	B29C 2949/78235	<administrative transfer to B29C 49/78>
D	B29C 2949/78243	<administrative transfer to B29C 49/78>
D	B29C 2949/78252	<administrative transfer to B29C 49/78>
D	B29C 2949/7826	<administrative transfer to B29C 49/78>
D	B29C 2949/78268	<administrative transfer to B29C 49/78>
D	B29C 2949/78277	<administrative transfer to B29C 49/78>
D	B29C 2949/78285	<administrative transfer to B29C 49/78>
D	B29C 2949/78294	<administrative transfer to B29C 49/78>
D	B29C 2949/78302	<administrative transfer to B29C 49/78>
D	B29C 2949/7831	<administrative transfer to B29C 49/78>
D	B29C 2949/78319	<administrative transfer to B29C 49/78>
D	B29C 2949/78327	<administrative transfer to B29C 49/78>
D	B29C 2949/78336	<administrative transfer to B29C 49/78>
D	B29C 2949/78344	<administrative transfer to B29C 49/78>
D	B29C 2949/78352	<administrative transfer to B29C 49/78>
D	B29C 2949/78361	<administrative transfer to B29C 49/78>
D	B29C 2949/78369	<administrative transfer to B29C 49/78>
D	B29C 2949/78378	<administrative transfer to B29C 49/78>
D	B29C 2949/78386	<administrative transfer to B29C 49/78>
D	B29C 2949/78394	<administrative transfer to B29C 49/78>
D	B29C 2949/78403	<administrative transfer to B29C 49/78>
D	B29C 2949/78411	<administrative transfer to B29C 49/78>
D	B29C 2949/7842	<administrative transfer to B29C 49/78>
D	B29C 2949/78428	<administrative transfer to B29C 49/78>
D	B29C 2949/78436	<administrative transfer to B29C 49/78>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29C 2949/78445	<administrative transfer to B29C 49/78>
D	B29C 2949/78453	<administrative transfer to B29C 49/78>
D	B29C 2949/78462	<administrative transfer to B29C 49/78>
D	B29C 2949/7847	<administrative transfer to B29C 49/78>
D	B29C 2949/78478	<administrative transfer to B29C 49/78>
D	B29C 2949/78487	<administrative transfer to B29C 49/78>
D	B29C 2949/78495	<administrative transfer to B29C 49/78>
D	B29C 2949/78504	<administrative transfer to B29C 49/78>
D	B29C 2949/78512	<administrative transfer to B29C 49/78>
D	B29C 2949/78521	<administrative transfer to B29C 49/78>
D	B29C 2949/78529	<administrative transfer to B29C 49/78>
D	B29C 2949/78537	<administrative transfer to B29C 49/78>
D	B29C 2949/78546	<administrative transfer to B29C 49/78>
D	B29C 2949/78554	<administrative transfer to B29C 49/78>
D	B29C 2949/78563	<administrative transfer to B29C 49/78>
D	B29C 2949/78571	<administrative transfer to B29C 49/78>
D	B29C 2949/78579	<administrative transfer to B29C 49/78>
D	B29C 2949/78588	<administrative transfer to B29C 49/78>
D	B29C 2949/78596	<administrative transfer to B29C 49/78>
D	B29C 2949/78605	<administrative transfer to B29C 49/78>
D	B29C 2949/78613	<administrative transfer to B29C 49/78>
D	B29C 2949/78621	<administrative transfer to B29C 49/78>
D	B29C 2949/7863	<administrative transfer to B29C 49/78>
D	B29C 2949/78638	<administrative transfer to B29C 49/78>
D	B29C 2949/78647	<administrative transfer to B29C 49/78>
D	B29C 2949/78655	<administrative transfer to B29C 49/78>
D	B29C 2949/78663	<administrative transfer to B29C 49/78>
D	B29C 2949/78672	<administrative transfer to B29C 49/78>
D	B29C 2949/7868	<administrative transfer to B29C 49/78>
D	B29C 2949/78689	<administrative transfer to B29C 49/78>
D	B29C 2949/78697	<administrative transfer to B29C 49/78>
D	B29C 2949/78705	<administrative transfer to B29C 49/78>
D	B29C 2949/78714	<administrative transfer to B29C 49/78>
D	B29C 2949/78722	<administrative transfer to B29C 49/78>
D	B29C 2949/78731	<administrative transfer to B29C 49/78>
D	B29C 2949/78739	<administrative transfer to B29C 49/78>
D	B29C 2949/78747	<administrative transfer to B29C 49/78>
D	B29C 2949/78756	<administrative transfer to B29C 49/78>
D	B29C 2949/78764	<administrative transfer to B29C 49/78>
D	B29C 2949/78773	<administrative transfer to B29C 49/78>
D	B29C 2949/78781	<administrative transfer to B29C 49/78>
D	B29C 2949/78789	<administrative transfer to B29C 49/78>
D	B29C 2949/78798	<administrative transfer to B29C 49/78>
D	B29C 2949/78806	<administrative transfer to B29C 49/78>
D	B29C 2949/78815	<administrative transfer to B29C 49/78>
D	B29C 2949/78823	<administrative transfer to B29C 49/78>
D	B29C 2949/78831	<administrative transfer to B29C 49/78>
D	B29C 2949/7884	<administrative transfer to B29C 49/78>
D	B29C 2949/78848	<administrative transfer to B29C 49/78>
D	B29C 2949/78857	<administrative transfer to B29C 49/78>

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	B29C 2949/78865	<administrative transfer to B29C 49/78>
D	B29C 2949/78873	<administrative transfer to B29C 49/78>
D	B29C 2949/78882	<administrative transfer to B29C 49/78>
D	B29C 2949/7889	<administrative transfer to B29C 49/78>
D	B29C 2949/78899	<administrative transfer to B29C 49/78>
D	B29C 2949/78907	<administrative transfer to B29C 49/78>
D	B29C 2949/78915	<administrative transfer to B29C 49/78>
D	B29C 2949/78924	<administrative transfer to B29C 49/78>
D	B29C 2949/78932	<administrative transfer to B29C 49/78>
D	B29C 2949/78941	<administrative transfer to B29C 49/78>
D	B29C 2949/78949	<administrative transfer to B29C 49/78>
D	B29C 2949/78957	<administrative transfer to B29C 49/78>
D	B29C 2949/78966	<administrative transfer to B29C 49/78>
D	B29C 2949/78974	<administrative transfer to B29C 49/78>
D	B29C 2949/78983	<administrative transfer to B29C 49/78>
D	B29C 2949/78991	<administrative transfer to B29C 49/78>

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “<administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29B 2911/00		DELETE
B29B 2911/14		DELETE
B29B 2911/14006		DELETE
B29B 2911/14013		DELETE
B29B 2911/1402		DELETE
B29B 2911/14026		DELETE
B29B 2911/14033		DELETE
B29B 2911/1404		DELETE
B29B 2911/14046		DELETE
B29B 2911/14053		DELETE
B29B 2911/1406		DELETE
B29B 2911/14066		DELETE
B29B 2911/14073		DELETE
B29B 2911/1408		DELETE
B29B 2911/14086		DELETE
B29B 2911/14093		DELETE
B29B 2911/141		DELETE
B29B 2911/14106		DELETE
B29B 2911/14113		DELETE
B29B 2911/1412		DELETE
B29B 2911/14126		DELETE
B29B 2911/14133		DELETE
B29B 2911/1414		DELETE
B29B 2911/14146		DELETE
B29B 2911/14153		DELETE
B29B 2911/1416		DELETE
B29B 2911/14166		DELETE
B29B 2911/14173		DELETE
B29B 2911/1418		DELETE
B29B 2911/14186		DELETE
B29B 2911/14193		DELETE
B29B 2911/142		DELETE
B29B 2911/14206		DELETE
B29B 2911/14213		DELETE
B29B 2911/1422		DELETE
B29B 2911/14226		DELETE
B29B 2911/14233		DELETE
B29B 2911/1424		DELETE
B29B 2911/14246		DELETE
B29B 2911/14253		DELETE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29B 2911/1426		DELETE
B29B 2911/14266		DELETE
B29B 2911/14273		DELETE
B29B 2911/1428		DELETE
B29B 2911/14286		DELETE
B29B 2911/14293		DELETE
B29B 2911/143		DELETE
B29B 2911/14306		DELETE
B29B 2911/14313		DELETE
B29B 2911/1432		DELETE
B29B 2911/14326		DELETE
B29B 2911/14328		DELETE
B29B 2911/1433		DELETE
B29B 2911/14331		DELETE
B29B 2911/14332		DELETE
B29B 2911/14333		DELETE
B29B 2911/14335		DELETE
B29B 2911/14336		DELETE
B29B 2911/14337		DELETE
B29B 2911/14338		DELETE
B29B 2911/1434		DELETE
B29B 2911/14341		DELETE
B29B 2911/14343		DELETE
B29B 2911/14344		DELETE
B29B 2911/14345		DELETE
B29B 2911/14346		DELETE
B29B 2911/14348		DELETE
B29B 2911/1435		DELETE
B29B 2911/14351		DELETE
B29B 2911/14352		DELETE
B29B 2911/14353		DELETE
B29B 2911/1436		DELETE
B29B 2911/14366		DELETE
B29B 2911/14373		DELETE
B29B 2911/1438		DELETE
B29B 2911/14386		DELETE
B29B 2911/14393		DELETE
B29B 2911/144		DELETE
B29B 2911/14406		DELETE
B29B 2911/14413		DELETE
B29B 2911/1442		DELETE
B29B 2911/14426		DELETE
B29B 2911/14433		DELETE
B29B 2911/1444		DELETE
B29B 2911/14446		DELETE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29B 2911/14453		DELETE
B29B 2911/1446		DELETE
B29B 2911/14466		DELETE
B29B 2911/14473		DELETE
B29B 2911/1448		DELETE
B29B 2911/14486		DELETE
B29B 2911/14493		DELETE
B29B 2911/145		DELETE
B29B 2911/14506		DELETE
B29B 2911/14513		DELETE
B29B 2911/1452		DELETE
B29B 2911/14526		DELETE
B29B 2911/14533		DELETE
B29B 2911/1454		DELETE
B29B 2911/14546		DELETE
B29B 2911/14553		DELETE
B29B 2911/1456		DELETE
B29B 2911/14566		DELETE
B29B 2911/14573		DELETE
B29B 2911/1458		DELETE
B29B 2911/14586		DELETE
B29B 2911/14593		DELETE
B29B 2911/146		DELETE
B29B 2911/14606		DELETE
B29B 2911/14613		DELETE
B29B 2911/1462		DELETE
B29B 2911/14626		DELETE
B29B 2911/14633		DELETE
B29B 2911/1464		DELETE
B29B 2911/14646		DELETE
B29B 2911/14653		DELETE
B29B 2911/1466		DELETE
B29B 2911/14666		DELETE
B29B 2911/14673		DELETE
B29B 2911/1468		DELETE
B29B 2911/14686		DELETE
B29B 2911/14693		DELETE
B29B 2911/147		DELETE
B29B 2911/14706		DELETE
B29B 2911/14713		DELETE
B29B 2911/1472		DELETE
B29B 2911/14726		DELETE
B29B 2911/14733		DELETE
B29B 2911/1474		DELETE
B29B 2911/14746		DELETE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29B 2911/14753		DELETE
B29B 2911/1476		DELETE
B29B 2911/14766		DELETE
B29B 2911/14773		DELETE
B29B 2911/1478		DELETE
B29B 2911/14786		DELETE
B29B 2911/14793		DELETE
B29B 2911/148		DELETE
B29B 2911/14806		DELETE
B29B 2911/14813		DELETE
B29B 2911/1482		DELETE
B29B 2911/14826		DELETE
B29B 2911/14833		DELETE
B29B 2911/1484		DELETE
B29B 2911/14846		DELETE
B29B 2911/14853		DELETE
B29B 2911/1486		DELETE
B29B 2911/14866		DELETE
B29B 2911/14873		DELETE
B29B 2911/1488		DELETE
B29B 2911/14886		DELETE
B29B 2911/14893		DELETE
B29B 2911/149		DELETE
B29B 2911/14906		DELETE
B29B 2911/14913		DELETE
B29B 2911/1492		DELETE
B29B 2911/14926		DELETE
B29B 2911/14933		DELETE
B29B 2911/1494		DELETE
B29B 2911/14946		DELETE
B29B 2911/14953		DELETE
B29B 2911/1496		DELETE
B29B 2911/14966		DELETE
B29B 2911/14973		DELETE
B29B 2911/1498		DELETE
B29B 2911/14986		DELETE
B29B 2911/14993		DELETE
B29C 49/0006	B29C 49/00	NEW
B29C 2049/001		DELETE
B29C 49/0022	B29C 49/00	NEW
B29C 49/0023	B29C 49/00	NEW
B29C 49/0024	B29C 49/00	NEW
B29C 49/0025	B29C 49/00	NEW
B29C 49/0026		DELETE
B29C 49/0027	B29C 49/00	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 49/0028	B29C 49/00	NEW
B29C 49/0029	B29C 49/00	NEW
B29C 49/003	B29C 49/00	NEW
B29C 2049/0036		DELETE
B29C 49/0047		DELETE
B29C 2049/0052		DELETE
B29C 2049/0057		DELETE
B29C 49/006	B29C 49/00	NEW
B29C 49/0062	B29C 49/00	NEW
B29C 2049/0063		DELETE
B29C 49/0064	B29C 49/00	NEW
B29C 2049/0068		DELETE
B29C 49/0073		DELETE
B29C 49/0078		DELETE
B29C 49/0084		DELETE
B29C 2049/0089		DELETE
B29C 2049/0094		DELETE
B29C 49/0208	B29C 49/02	NEW
B29C 2049/021		DELETE
B29C 49/022		DELETE
B29C 2049/025		DELETE
B29C 2049/026		DELETE
B29C 2049/027		DELETE
B29C 2049/028		DELETE
B29C 49/04102	B29C 49/04	NEW
B29C 49/04104	B29C 49/04	NEW
B29C 49/04106	B29C 49/04	NEW
B29C 49/04108	B29C 49/04	NEW
B29C 49/0411	B29C 49/04	NEW
B29C 49/04112	B29C 49/04	NEW
B29C 49/04114	B29C 49/04	NEW
B29C 49/04116	B29C 49/04	NEW
B29C 49/04118	B29C 49/04	NEW
B29C 49/0412	B29C 49/04	NEW
B29C 2049/042		DELETE
B29C 2049/044		DELETE
B29C 2049/045		DELETE
B29C 2049/047		DELETE
B29C 2049/048		DELETE
B29C 2049/066		DELETE
B29C 49/0665	B29C 49/06	NEW
B29C 2049/067		DELETE
B29C 2049/068		DELETE
B29C 49/0685	B29C 49/02	NEW
B29C 2049/069		DELETE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 49/06905	B29C 49/02	NEW
B29C 49/0691	B29C 49/02	NEW
B29C 49/06912	B29C 49/02	NEW
B29C 49/06914	B29C 49/02	NEW
B29C 49/06916	B29C 49/02	NEW
B29C 49/071	B29C 49/00	NEW
B29C 49/086	B29C 49/08	NEW
B29C 49/087	B29C 49/08	NEW
B29C 49/0871	B29C 49/08	NEW
B29C 49/0872	B29C 49/08	NEW
B29C 49/1202	B29C 49/12	NEW
B29C 2049/1204		DELETE
B29C 49/1205	B29C 49/12	NEW
B29C 49/1206	B29C 49/12	NEW
B29C 49/1208	B29C 49/12	NEW
B29C 2049/1209		DELETE
B29C 49/121	B29C 49/12	NEW
B29C 49/1212	B29C 49/12	NEW
B29C 2049/1214		DELETE
B29C 49/1215	B29C 49/12	NEW
B29C 49/1216	B29C 49/12	NEW
B29C 49/1218	B29C 49/12	NEW
B29C 2049/1219		DELETE
B29C 49/122	B29C 49/10	NEW
B29C 49/1222	B29C 49/10	NEW
B29C 2049/1223		DELETE
B29C 49/1224	B29C 49/10	NEW
B29C 49/1226	B29C 49/10	NEW
B29C 2049/1228		DELETE
B29C 49/1229	B29C 49/10	NEW
B29C 49/123	B29C 49/10	NEW
B29C 49/1232	B29C 49/10	NEW
B29C 2049/1233		DELETE
B29C 2049/1238		DELETE
B29C 2049/1242		DELETE
B29C 2049/1247		DELETE
B29C 2049/1252		DELETE
B29C 2049/1257		DELETE
B29C 2049/1261		DELETE
B29C 2049/1266		DELETE
B29C 2049/1271		DELETE
B29C 2049/1276		DELETE
B29C 2049/128		DELETE
B29C 2049/1285		DELETE
B29C 2049/129		DELETE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2049/1295		DELETE
B29C 49/1602	B29C 49/16	NEW
B29C 2049/165		DELETE
B29C 49/1802	B29C 49/18	NEW
B29C 49/185		DELETE
B29C 2049/2004		DELETE
B29C 2049/2071	B29C 49/20	NEW
B29C 2049/2091		DELETE
B29C 49/221		DELETE
B29C 2049/224		DELETE
B29C 2049/225		DELETE
B29C 2049/227		DELETE
B29C 2049/228		DELETE
B29C 2049/2402		DELETE
B29C 2049/2406		DELETE
B29C 2049/241		DELETE
B29C 2049/2416		DELETE
B29C 2049/2418		DELETE
B29C 2049/242		DELETE
B29C 2049/2427		DELETE
B29C 2049/24302	B29C 49/24	NEW
B29C 2049/24304	B29C 49/24	NEW
B29C 2049/24306	B29C 49/24	NEW
B29C 2049/24308	B29C 49/24	NEW
B29C 2049/2442	B29C 49/24	NEW
B29C 2049/2477		DELETE
B29C 2049/2489		DELETE
B29C 49/249	B29C 49/24	NEW
B29C 2049/2491		DELETE
B29C 2049/2493		DELETE
B29C 2049/2495		DELETE
B29C 2049/2497		DELETE
B29C 49/251	B29C 49/24	NEW
B29C 49/28002	B29C 49/28	NEW
B29C 49/28004	B29C 49/28	NEW
B29C 49/28006	B29C 49/28	NEW
B29C 49/28008	B29C 49/28	NEW
B29C 49/28012	B29C 49/28	NEW
B29C 2049/283		DELETE
B29C 2049/286		DELETE
B29C 49/42051	B29C 49/42	NEW
B29C 49/42053	B29C 49/42	NEW
B29C 49/42055	B29C 49/42	NEW
B29C 49/42057	B29C 49/42	NEW
B29C 49/42059	B29C 49/42	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 49/42061	B29C 49/42	NEW
B29C 49/42063	B29C 49/42	NEW
B29C 49/42065	B29C 49/42	NEW
B29C 49/42067	B29C 49/42	NEW
B29C 49/42069	B29C 49/42	NEW
B29C 49/4207	B29C 49/42	NEW
B29C 49/42071	B29C 49/42	NEW
B29C 49/42073	B29C 49/42	NEW
B29C 49/42075	B29C 49/42	NEW
B29C 49/42077	B29C 49/42	NEW
B29C 49/42079	B29C 49/42	NEW
B29C 49/42081	B29C 49/42	NEW
B29C 49/42083	B29C 49/42	NEW
B29C 49/42085	B29C 49/42	NEW
B29C 49/42087	B29C 49/42	NEW
B29C 49/42089	B29C 49/42	NEW
B29C 49/42091	B29C 49/42	NEW
B29C 49/42093	B29C 49/42	NEW
B29C 49/42095	B29C 49/42	NEW
B29C 49/42097	B29C 49/42	NEW
B29C 49/42099	B29C 49/42	NEW
B29C 49/421		DELETE
B29C 49/42101	B29C 49/42	NEW
B29C 49/42103	B29C 49/42	NEW
B29C 49/42105	B29C 49/42	NEW
B29C 49/42107	B29C 49/42	NEW
B29C 49/42109	B29C 49/42	NEW
B29C 49/42111	B29C 49/42	NEW
B29C 49/42113	B29C 49/42	NEW
B29C 49/42115	B29C 49/42	NEW
B29C 49/42117	B29C 49/42	NEW
B29C 49/42119	B29C 49/42	NEW
B29C 49/42121	B29C 49/42	NEW
B29C 49/42122	B29C 49/42	NEW
B29C 49/4215		DELETE
B29C 49/42155	B29C 49/42	NEW
B29C 2049/4221		DELETE
B29C 2049/4226		DELETE
B29C 2049/4231		DELETE
B29C 49/42362	B29C 49/42	NEW
B29C 49/4237	B29C 49/42	NEW
B29C 49/42372	B29C 49/42	NEW
B29C 49/42374	B29C 49/42	NEW
B29C 49/42376	B29C 49/42	NEW
B29C 49/42378	B29C 49/42	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 49/4238	B29C 49/42	NEW
B29C 49/42382	B29C 49/42	NEW
B29C 49/42384	B29C 49/42	NEW
B29C 49/42386	B29C 49/42	NEW
B29C 49/42388	B29C 49/42	NEW
B29C 49/4239	B29C 49/42	NEW
B29C 49/42392	B29C 49/42	NEW
B29C 49/42394	B29C 49/42	NEW
B29C 49/42396	B29C 49/42	NEW
B29C 49/42398	B29C 49/42	NEW
B29C 49/424	B29C 49/42	NEW
B29C 49/42402	B29C 49/42	NEW
B29C 49/42403	B29C 49/42	NEW
B29C 49/42405	B29C 49/42	NEW
B29C 49/42407	B29C 49/42	NEW
B29C 49/42408	B29C 49/42	NEW
B29C 49/42409	B29C 49/42	NEW
B29C 49/4241	B29C 49/42	NEW
B29C 49/42412	B29C 49/42	NEW
B29C 49/42413	B29C 49/42	NEW
B29C 49/42414	B29C 49/42	NEW
B29C 49/42416	B29C 49/42	NEW
B29C 49/42418	B29C 49/42	NEW
B29C 49/42421	B29C 49/42	NEW
B29C 49/42422	B29C 49/42	NEW
B29C 49/42424	B29C 49/42	NEW
B29C 49/42426	B29C 49/42	NEW
B29C 49/42428	B29C 49/42	NEW
B29C 49/4244	B29C 49/42	NEW
B29C 49/42442	B29C 49/42	NEW
B29C 49/42444	B29C 49/42	NEW
B29C 49/42446	B29C 49/42	NEW
B29C 49/42448	B29C 49/42	NEW
B29C 49/4245	B29C 49/42	NEW
B29C 49/42452	B29C 49/42	NEW
B29C 49/42454	B29C 49/42	NEW
B29C 49/425	B29C 49/42	NEW
B29C 49/4251	B29C 49/42	NEW
B29C 2049/4257		DELETE
B29C 2049/4263		DELETE
B29C 49/427	B29C 49/42	NEW
B29C 49/428	B29C 49/42	NEW
B29C 49/42802	B29C 49/42	NEW
B29C 49/42806	B29C 49/42	NEW
B29C 49/42808	B29C 49/42	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 49/42809	B29C 49/42	NEW
B29C 49/4281	B29C 49/42	NEW
B29C 49/42811	B29C 49/42	NEW
B29C 49/42815	B29C 49/42	NEW
B29C 49/42817	B29C 49/42	NEW
B29C 49/4282	B29C 49/42	NEW
B29C 49/42822	B29C 49/42	NEW
B29C 49/42824	B29C 49/42	NEW
B29C 49/42826	B29C 49/42	NEW
B29C 49/42828	B29C 49/42	NEW
B29C 49/4283	B29C 49/42	NEW
B29C 49/42832	B29C 49/42	NEW
B29C 49/42834	B29C 49/42	NEW
B29C 49/42836	B29C 49/42	NEW
B29C 49/42845	B29C 49/42	NEW
B29C 49/4285	B29C 49/42	NEW
B29C 49/42855	B29C 49/42	NEW
B29C 49/4286	B29C 49/42	NEW
B29C 49/42865	B29C 49/42	NEW
B29C 49/4287	B29C 49/42	NEW
B29C 2049/4296	B29C 49/42	NEW
B29C 2049/4298	B29C 49/42	NEW
B29C 2049/431	B29C 49/42	NEW
B29C 2049/4682		DELETE
B29C 2049/4685		DELETE
B29C 2049/4688		DELETE
B29C 2049/4691		DELETE
B29C 2049/4694		DELETE
B29C 2049/4698	B29C 49/46	NEW
B29C 2049/4699	B29C 49/46	NEW
B29C 2049/4812		DELETE
B29C 49/4812	B29C 49/48	NEW
B29C 49/48185	B29C 49/48	NEW
B29C 49/4819	B29C 49/48	NEW
B29C 2049/4828		DELETE
B29C 2049/4841		DELETE
B29C 2049/4843		DELETE
B29C 2049/4854	B29C 49/48	NEW
B29C 2049/48615	B29C 49/48	NEW
B29C 2049/4862	B29C 49/48	NEW
B29C 2049/4863	B29C 49/48	NEW
B29C 2049/4869		DELETE
B29C 2049/4871		DELETE
B29C 49/487105	B29C 49/48	NEW
B29C 2049/4881	B29C 49/48	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2049/48825	B29C 49/48	NEW
B29C 2049/4883	B29C 49/48	NEW
B29C 2049/4897		DELETE
B29C 49/5601	B29C 49/56	NEW
B29C 49/5602	B29C 49/56	NEW
B29C 49/5603	B29C 49/56	NEW
B29C 49/5604	B29C 49/56	NEW
B29C 49/5605	B29C 49/56	NEW
B29C 49/5606	B29C 49/56	NEW
B29C 49/5607	B29C 49/56	NEW
B29C 49/5608	B29C 49/56	NEW
B29C 49/561	B29C 49/56	NEW
B29C 49/5611	B29C 49/56	NEW
B29C 49/5612	B29C 49/56	NEW
B29C 49/5613	B29C 49/56	NEW
B29C 49/5614	B29C 49/56	NEW
B29C 2049/5631	B29C 49/56	NEW
B29C 2049/5632	B29C 49/56	NEW
B29C 2049/5633	B29C 49/56	NEW
B29C 2049/5634	B29C 49/56	NEW
B29C 2049/5635	B29C 49/56	NEW
B29C 2049/5636	B29C 49/56	NEW
B29C 2049/5661	B29C 49/56	NEW
B29C 2049/5662	B29C 49/56	NEW
B29C 2049/5663	B29C 49/56	NEW
B29C 2049/5664	B29C 49/56	NEW
B29C 2049/5665	B29C 49/56	NEW
B29C 2049/5666	B29C 49/56	NEW
B29C 2049/5803		DELETE
B29C 2049/5898	B29C 49/58	NEW
B29C 2049/6009		DELETE
B29C 2049/6091	B29C 49/60	NEW
B29C 2049/6092	B29C 49/60	NEW
B29C 2049/625		DELETE
B29C 2049/6271	B29C 49/62	NEW
B29C 2049/6272	B29C 49/62	NEW
B29C 49/6419	B29C 49/64	NEW
B29C 49/64195	B29C 49/64	NEW
B29C 49/642	B29C 49/64	NEW
B29C 49/643	B29C 49/64	NEW
B29C 49/6435	B29C 49/64	NEW
B29C 49/645	B29C 49/64	NEW
B29C 49/6452	B29C 49/64	NEW
B29C 49/6458	B29C 49/64	NEW
B29C 49/6462	B29C 49/64	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 49/6464	B29C 49/64	NEW
B29C 49/6465	B29C 49/64	NEW
B29C 49/6466	B29C 49/64	NEW
B29C 49/6467	B29C 49/64	NEW
B29C 49/648	B29C 49/64	NEW
B29C 49/6481		DELETE
B29C 49/649		DELETE
B29C 49/6604	B29C 49/64	NEW
B29C 49/6605	B29C 49/64	NEW
B29C 49/66055	B29C 49/64	NEW
B29C 2049/6606	B29C 49/64	NEW
B29C 2049/6607	B29C 49/64	UPDATED
B29C 2049/6615	B29C 49/64	UPDATED
B29C 2049/6623	B29C 49/64	UPDATED
B29C 2049/6646	B29C 49/64	UPDATED
B29C 2049/6653	B29C 49/64	UPDATED
B29C 2049/6661	B29C 49/64	UPDATED
B29C 2049/6669	B29C 49/64	UPDATED
B29C 2049/6676	B29C 49/64	UPDATED
B29C 2049/6684	B29C 49/64	UPDATED
B29C 2049/6692	B29C 49/64	UPDATED
B29C 2049/663		DELETE
B29C 2049/6638		DELETE
B29C 2049/671	B29C 49/64	NEW
B29C 49/681	B29C 49/68	NEW
B29C 49/682	B29C 49/68	NEW
B29C 49/6825	B29C 49/68	NEW
B29C 49/683	B29C 49/68	NEW
B29C 49/6835	B29C 49/68	NEW
B29C 49/684	B29C 49/68	NEW
B29C 49/6845	B29C 49/68	NEW
B29C 49/685	B29C 49/68	NEW
B29C 49/6855	B29C 49/68	NEW
B29C 2049/704		DELETE
B29C 2049/705		DELETE
B29C 2049/709	B29C 49/70	NEW
B29C 49/761	B29C 49/76	NEW
B29C 2049/7831	B29C 49/78	NEW
B29C 2049/7832	B29C 49/78	NEW
B29C 2049/7833	B29C 49/78	NEW
B29C 2049/7834	B29C 49/78	NEW
B29C 2049/7835	B29C 49/78	NEW
B29C 2049/7861	B29C 49/78	NEW
B29C 2049/7862	B29C 49/78	NEW
B29C 2049/7863	B29C 49/78	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2049/7864	B29C 49/78	NEW
B29C 2049/78645	B29C 49/78	NEW
B29C 2049/7865	B29C 49/78	NEW
B29C 2049/7866	B29C 49/78	NEW
B29C 2049/7867	B29C 49/78	NEW
B29C 2049/78675	B29C 49/78	NEW
B29C 2049/7868	B29C 49/78	NEW
B29C 2049/787	B29C 49/78	NEW
B29C 2049/78705	B29C 49/78	NEW
B29C 2049/7871	B29C 49/78	NEW
B29C 2049/78715	B29C 49/78	NEW
B29C 2049/7873	B29C 49/78	NEW
B29C 2049/7874	B29C 49/78	NEW
B29C 2049/78745	B29C 49/78	NEW
B29C 2049/7875	B29C 49/78	NEW
B29C 2049/78755	B29C 49/78	NEW
B29C 2049/7876	B29C 49/78	NEW
B29C 2049/78765	B29C 49/78	NEW
B29C 2049/7878	B29C 49/78	NEW
B29C 2049/7879	B29C 49/78	NEW
B29C 2049/788	B29C 49/78	NEW
B29C 2049/78805	B29C 49/78	NEW
B29C 2049/7881	B29C 49/78	NEW
B29C 2049/78815	B29C 49/78	NEW
B29C 2049/7882	B29C 49/78	NEW
B29C 2049/801	B29C 49/80	NEW
B29C 2949/07	CPCONLY	NEW
B29C 2949/071	CPCONLY	NEW
B29C 2949/0715	CPCONLY	NEW
B29C 2949/072	CPCONLY	NEW
B29C 2949/0721	CPCONLY	NEW
B29C 2949/0722	CPCONLY	NEW
B29C 2949/0723	CPCONLY	NEW
B29C 2949/0724	CPCONLY	NEW
B29C 2949/0725	CPCONLY	NEW
B29C 2949/073	CPCONLY	NEW
B29C 2949/0731	CPCONLY	NEW
B29C 2949/0732	CPCONLY	NEW
B29C 2949/0733	CPCONLY	NEW
B29C 2949/0734	CPCONLY	NEW
B29C 2949/074	CPCONLY	NEW
B29C 2949/0741	CPCONLY	NEW
B29C 2949/0742	CPCONLY	NEW
B29C 2949/0744	CPCONLY	NEW
B29C 2949/0745	CPCONLY	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2949/0746	CPCONLY	NEW
B29C 2949/0747	CPCONLY	NEW
B29C 2949/075	CPCONLY	NEW
B29C 2949/0751	CPCONLY	NEW
B29C 2949/0752	CPCONLY	NEW
B29C 2949/0753	CPCONLY	NEW
B29C 2949/0754	CPCONLY	NEW
B29C 2949/076	CPCONLY	NEW
B29C 2949/0761	CPCONLY	NEW
B29C 2949/0762	CPCONLY	NEW
B29C 2949/0763	CPCONLY	NEW
B29C 2949/0764	CPCONLY	NEW
B29C 2949/0765	CPCONLY	NEW
B29C 2949/0766	CPCONLY	NEW
B29C 2949/0767	CPCONLY	NEW
B29C 2949/0768	CPCONLY	NEW
B29C 2949/0769	CPCONLY	NEW
B29C 2949/077	CPCONLY	NEW
B29C 2949/0771	CPCONLY	NEW
B29C 2949/0772	CPCONLY	NEW
B29C 2949/0773	CPCONLY	NEW
B29C 2949/0774	CPCONLY	NEW
B29C 2949/0775	CPCONLY	NEW
B29C 2949/0776	CPCONLY	NEW
B29C 2949/0777	CPCONLY	NEW
B29C 2949/0778	CPCONLY	NEW
B29C 2949/0779	CPCONLY	NEW
B29C 2949/078	CPCONLY	NEW
B29C 2949/0781	CPCONLY	NEW
B29C 2949/0782	CPCONLY	NEW
B29C 2949/079	CPCONLY	NEW
B29C 2949/0791	CPCONLY	NEW
B29C 2949/0792	CPCONLY	NEW
B29C 2949/0793	CPCONLY	NEW
B29C 2949/0794	CPCONLY	NEW
B29C 2949/0795	CPCONLY	NEW
B29C 2949/0796	CPCONLY	NEW
B29C 2949/0797	CPCONLY	NEW
B29C 2949/0798	CPCONLY	NEW
B29C 2949/0799	CPCONLY	NEW
B29C 2949/08	CPCONLY	NEW
B29C 2949/0801	CPCONLY	NEW
B29C 2949/081	CPCONLY	NEW
B29C 2949/0811	CPCONLY	NEW
B29C 2949/0812	CPCONLY	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2949/0813	CPCONLY	NEW
B29C 2949/0814	CPCONLY	NEW
B29C 2949/0815	CPCONLY	NEW
B29C 2949/0816	CPCONLY	NEW
B29C 2949/0817	CPCONLY	NEW
B29C 2949/0818	CPCONLY	NEW
B29C 2949/0819	CPCONLY	NEW
B29C 2949/082	CPCONLY	NEW
B29C 2949/0821	CPCONLY	NEW
B29C 2949/0822	CPCONLY	NEW
B29C 2949/0823	CPCONLY	NEW
B29C 2949/0824	CPCONLY	NEW
B29C 2949/0825	CPCONLY	NEW
B29C 2949/0826	CPCONLY	NEW
B29C 2949/0827	CPCONLY	NEW
B29C 2949/0828	CPCONLY	NEW
B29C 2949/0829	CPCONLY	NEW
B29C 2949/083	CPCONLY	NEW
B29C 2949/0831	CPCONLY	NEW
B29C 2949/0832	CPCONLY	NEW
B29C 2949/0833	CPCONLY	NEW
B29C 2949/0834	CPCONLY	NEW
B29C 2949/0835	CPCONLY	NEW
B29C 2949/0836	CPCONLY	NEW
B29C 2949/0837	CPCONLY	NEW
B29C 2949/0838	CPCONLY	NEW
B29C 2949/0839	CPCONLY	NEW
B29C 2949/084	CPCONLY	NEW
B29C 2949/0841	CPCONLY	NEW
B29C 2949/0842	CPCONLY	NEW
B29C 2949/0843	CPCONLY	NEW
B29C 2949/0844	CPCONLY	NEW
B29C 2949/0845	CPCONLY	NEW
B29C 2949/0846	CPCONLY	NEW
B29C 2949/0847	CPCONLY	NEW
B29C 2949/0849	CPCONLY	NEW
B29C 2949/085	CPCONLY	NEW
B29C 2949/0851	CPCONLY	NEW
B29C 2949/0852	CPCONLY	NEW
B29C 2949/0853	CPCONLY	NEW
B29C 2949/0854	CPCONLY	NEW
B29C 2949/0855	CPCONLY	NEW
B29C 2949/0856	CPCONLY	NEW
B29C 2949/086	CPCONLY	NEW
B29C 2949/0861	CPCONLY	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2949/0862	CPCONLY	NEW
B29C 2949/0863	CPCONLY	NEW
B29C 2949/0864	CPCONLY	NEW
B29C 2949/0865	CPCONLY	NEW
B29C 2949/0866	CPCONLY	NEW
B29C 2949/0867	CPCONLY	NEW
B29C 2949/0868	CPCONLY	NEW
B29C 2949/0869	CPCONLY	NEW
B29C 2949/087	CPCONLY	NEW
B29C 2949/0871	CPCONLY	NEW
B29C 2949/0872	CPCONLY	NEW
B29C 2949/20	CPCONLY	NEW
B29C 2949/22	CPCONLY	NEW
B29C 2949/24	CPCONLY	NEW
B29C 2949/26	CPCONLY	NEW
B29C 2949/28	CPCONLY	NEW
B29C 2949/30	CPCONLY	NEW
B29C 2949/3004	CPCONLY	NEW
B29C 2949/3006	CPCONLY	NEW
B29C 2949/3008	CPCONLY	NEW
B29C 2949/3009	CPCONLY	NEW
B29C 2949/3012	CPCONLY	NEW
B29C 2949/3014	CPCONLY	NEW
B29C 2949/3016	CPCONLY	NEW
B29C 2949/3018	CPCONLY	NEW
B29C 2949/302	CPCONLY	NEW
B29C 2949/3022	CPCONLY	NEW
B29C 2949/3024	CPCONLY	NEW
B29C 2949/3026	CPCONLY	NEW
B29C 2949/3028	CPCONLY	NEW
B29C 2949/303	CPCONLY	NEW
B29C 2949/3032	CPCONLY	NEW
B29C 2949/3034	CPCONLY	NEW
B29C 2949/3036	CPCONLY	NEW
B29C 2949/3038	CPCONLY	NEW
B29C 2949/3041	CPCONLY	NEW
B29C 2949/3042	CPCONLY	NEW
B29C 2949/3044	CPCONLY	NEW
B29C 2949/3046	CPCONLY	NEW
B29C 2949/3048	CPCONLY	NEW
B29C 2949/3051	CPCONLY	NEW
B29C 2949/3052	CPCONLY	NEW
B29C 2949/3054	CPCONLY	NEW
B29C 2949/3056	CPCONLY	NEW
B29C 2949/3058	CPCONLY	NEW

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2949/306	CPCONLY	NEW
B29C 2949/3062	CPCONLY	NEW
B29C 2949/3064	CPCONLY	NEW
B29C 2949/3066	CPCONLY	NEW
B29C 2949/3068	CPCONLY	NEW
B29C 2949/307	CPCONLY	NEW
B29C 2949/3074	CPCONLY	NEW
B29C 2949/3076	CPCONLY	NEW
B29C 2949/3078	CPCONLY	NEW
B29C 2949/308	CPCONLY	NEW
B29C 2949/3082	CPCONLY	NEW
B29C 2949/3084	CPCONLY	NEW
B29C 2949/3086	CPCONLY	NEW
B29C 2949/3088	CPCONLY	NEW
B29C 2949/309	CPCONLY	NEW
B29C 2949/3092	CPCONLY	NEW
B29C 2949/3094	CPCONLY	NEW
B29C 2949/78		DELETE
B29C 2949/78008		DELETE
B29C 2949/78016		DELETE
B29C 2949/78025		DELETE
B29C 2949/78033		DELETE
B29C 2949/78042		DELETE
B29C 2949/7805		DELETE
B29C 2949/78058		DELETE
B29C 2949/78067		DELETE
B29C 2949/78075		DELETE
B29C 2949/78084		DELETE
B29C 2949/78092		DELETE
B29C 2949/781		DELETE
B29C 2949/78109		DELETE
B29C 2949/78117		DELETE
B29C 2949/78126		DELETE
B29C 2949/78134		DELETE
B29C 2949/78142		DELETE
B29C 2949/78151		DELETE
B29C 2949/78159		DELETE
B29C 2949/78168		DELETE
B29C 2949/78176		DELETE
B29C 2949/78184		DELETE
B29C 2949/78193		DELETE
B29C 2949/78201		DELETE
B29C 2949/7821		DELETE
B29C 2949/78218		DELETE
B29C 2949/78226		DELETE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2949/78235		DELETE
B29C 2949/78243		DELETE
B29C 2949/78252		DELETE
B29C 2949/7826		DELETE
B29C 2949/78268		DELETE
B29C 2949/78277		DELETE
B29C 2949/78285		DELETE
B29C 2949/78294		DELETE
B29C 2949/78302		DELETE
B29C 2949/7831		DELETE
B29C 2949/78319		DELETE
B29C 2949/78327		DELETE
B29C 2949/78336		DELETE
B29C 2949/78344		DELETE
B29C 2949/78352		DELETE
B29C 2949/78361		DELETE
B29C 2949/78369		DELETE
B29C 2949/78378		DELETE
B29C 2949/78386		DELETE
B29C 2949/78394		DELETE
B29C 2949/78403		DELETE
B29C 2949/78411		DELETE
B29C 2949/7842		DELETE
B29C 2949/78428		DELETE
B29C 2949/78436		DELETE
B29C 2949/78445		DELETE
B29C 2949/78453		DELETE
B29C 2949/78462		DELETE
B29C 2949/7847		DELETE
B29C 2949/78478		DELETE
B29C 2949/78487		DELETE
B29C 2949/78495		DELETE
B29C 2949/78504		DELETE
B29C 2949/78512		DELETE
B29C 2949/78521		DELETE
B29C 2949/78529		DELETE
B29C 2949/78537		DELETE
B29C 2949/78546		DELETE
B29C 2949/78554		DELETE
B29C 2949/78563		DELETE
B29C 2949/78571		DELETE
B29C 2949/78579		DELETE
B29C 2949/78588		DELETE
B29C 2949/78596		DELETE
B29C 2949/78605		DELETE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2949/78613		DELETE
B29C 2949/78621		DELETE
B29C 2949/7863		DELETE
B29C 2949/78638		DELETE
B29C 2949/78647		DELETE
B29C 2949/78655		DELETE
B29C 2949/78663		DELETE
B29C 2949/78672		DELETE
B29C 2949/7868		DELETE
B29C 2949/78689		DELETE
B29C 2949/78697		DELETE
B29C 2949/78705		DELETE
B29C 2949/78714		DELETE
B29C 2949/78722		DELETE
B29C 2949/78731		DELETE
B29C 2949/78739		DELETE
B29C 2949/78747		DELETE
B29C 2949/78756		DELETE
B29C 2949/78764		DELETE
B29C 2949/78773		DELETE
B29C 2949/78781		DELETE
B29C 2949/78789		DELETE
B29C 2949/78798		DELETE
B29C 2949/78806		DELETE
B29C 2949/78815		DELETE
B29C 2949/78823		DELETE
B29C 2949/78831		DELETE
B29C 2949/7884		DELETE
B29C 2949/78848		DELETE
B29C 2949/78857		DELETE
B29C 2949/78865		DELETE
B29C 2949/78873		DELETE
B29C 2949/78882		DELETE
B29C 2949/7889		DELETE
B29C 2949/78899		DELETE
B29C 2949/78907		DELETE
B29C 2949/78915		DELETE
B29C 2949/78924		DELETE
B29C 2949/78932		DELETE
B29C 2949/78941		DELETE
B29C 2949/78949		DELETE
B29C 2949/78957		DELETE
B29C 2949/78966		DELETE
B29C 2949/78974		DELETE
B29C 2949/78983		DELETE

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C 2949/78991		DELETE

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CACL table above.
- T and M symbols are not included in the CACL table above unless a change to the existing IPC is desired.

CPC NOTICE OF CHANGES 1310

DATE: MAY 1, 2022

PROJECT RP10424

5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
B29C51/105	B29C49/0047	<u>Replace</u> with B29C 49/0691
B29C51/267	B29C49/0047	<u>Replace</u> with B29C 49/0691

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
B29C45/1646	B29C49/221	Informative references	<u>Replace</u> with B29C2949/3032
B29C45/1684	B29C49/221	Informative references	<u>Replace</u> with B29C2949/3032
B29C48/00	B29C49/022	Informative references	<u>Replace</u> with B29C2949/3032, B29C2949/3041

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.