

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 502

DATE: MAY 1, 2018

PROJECT RP0493

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:	F24J	SUBCLASS
	F24J	1/00
	F24J	2/00, 2/0007, 2/0015, 2/0023, 2002/003, 2002/0038, 2002/0046, 2002/0053, 2002/0061, 2002/0069, 2002/0076, 2002/0084, 2002/0092, 2/02, 2/04, 2002/0405, 2002/0411, 2002/0416, 2/0422, 2/0427, 2/0433, 2/0438, 2/0444, 2/045, 2/0455, 2/0461, 2/0466, 2/0472, 2/0477, 2/0483, 2/0488, 2/0494, 2/05, 2/055, 2/06, 2/062, 2/065, 2/067, 2/07, 2002/075, 2/08, 2/085, 2/10, 2002/1004, 2002/1009, 2002/1014, 2002/1019, 2002/1023, 2002/1028, 2002/1033, 2002/1038, 2002/1042, 2/1047, 2/1052, 2/1057, 2002/1061, 2002/1066, 2002/1071, 2002/1076, 2002/108, 2002/1085, 2002/109, 2002/1095, 2/12, 2/125, 2/13, 2/14, 2/145, 2/15, 2/16, 2/18, 2/20, 2/201, 2/202, 2/204, 2/205, 2/207, 2/208, 2/22, 2/23, 2/24, 2002/241, 2/242, 2/243, 2/244, 2/245, 2/246, 2/247, 2/248, 2/26, 2002/261, 2002/263, 2/265, 2/266, 2/268, 2/28, 2/30, 2/32, 2/34, 2/345, 2/36, 2/38, 2002/385, 2/40, 2/402, 2/405, 2/407, 2/42, 2/423, 2/426, 2/44, 2/46, 2002/4601, 2002/4603, 2002/4605, 2/4607, 2/4609, 2/461, 2/4612, 2/4614, 2/4616, 2/4618, 2/462, 2/4621, 2/4623, 2/4625, 2/4627, 2/4629, 2/463, 2/4632, 2/4634, 2/4636, 2/4638, 2/464, 2/4641, 2/4643, 2/4645, 2/4647, 2/4649, 2/465, 2/4652, 2/4654, 2002/4656, 2002/4658, 2002/4659, 2002/4661, 2002/4663, 2002/4665, 2002/4667, 2002/4669, 2002/467, 2002/4672, 2002/4674, 2002/4676, 2002/4678, 2002/4679, 2002/4681, 2002/4683, 2002/4685, 2002/4687, 2002/4689, 2002/469, 2002/4692, 2002/4694, 2002/4696, 2002/4698, 2/48, 2/481, 2/482, 2/484, 2/485, 2/487, 2/488, 2/50, 2002/501, 2002/502, 2002/503, 2/505, 2/506, 2/507, 2002/508, 2/51, 2/515, 2/52, 2/5201, 2/5203, 2/5205, 2/5207, 2/5209, 2/5211, 2002/5213, 2002/5215, 2002/5216,

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		2002/5218, 2002/522, 2002/5222, 2002/5224, 2002/5226, 2/5228, 2/523, 2/5232, 2/5233, 2/5235, 2/5237, 2/5239, 2/5241, 2/5243, 2/5245, 2/5247, 2/5249, 2/525, 2/5252, 2/5254, 2/5256, 2/5258, 2/526, 2/5262, 2/5264, 2/5266, 2/5267, 2/5269, 2/5271, 2002/5273, 2002/5275, 2002/5277, 2002/5279, 2002/5281, 2002/5283, 2002/5284, 2002/5286, 2002/5288, 2002/529, 2002/5292, 2002/5294, 2002/5296, 2002/5298, 2/54, 2/5403, 2/5406, 2/541, 2/5413, 2/5417, 2/542, 2/5424, 2/5427, 2/5431, 2002/5434, 2002/5437, 2002/5441, 2002/5444, 2002/5448, 2002/5451, 2002/5455, 2002/5458, 2002/5462, 2002/5465, 2002/5468, 2002/5472, 2002/5475, 2002/5479, 2002/5482, 2002/5486, 2002/5489, 2002/5493, 2002/5496
	F24J	3/00, 3/003, 3/006, 3/06, 3/08, 3/081, 3/082, 3/083, 3/084, 3/085, 3/086, 2003/087, 2003/088, 2003/089
	F24J	2200/00, 2200/04, 2200/06
Symbols New:	F24S	SUBCLASS
	F24S	10/00, 10/10, 10/13, 10/17, 10/20, 10/25, 10/30, 10/40, 10/45, 10/50, 10/501, 10/502, 10/503, 10/504, 10/505, 10/506, 10/55, 10/60, 10/70, 2010/71, 10/72, 10/73, 10/74, 10/742, 10/744, 10/746, 10/748, 10/75, 2010/751, 2010/752, 10/753, 10/754, 10/755, 10/80, 10/90, 10/95
	F24S	20/00, 20/02, 20/04, 2020/10, 2020/11, 2020/12, 2020/13, 2020/14, 2020/15, 2020/16, 2020/17, 2020/18, 2020/183, 2020/186, 20/20, 2020/23, 20/25, 20/30, 20/40, 20/50, 20/55, 20/60, 20/61, 20/62, 20/63, 20/64, 20/66, 20/67, 20/69, 20/70, 20/80
	F24S	21/00
	F24S	23/00, 23/10, 23/11, 23/12, 23/30, 23/31, 23/70, 23/71, 23/715, 23/72, 23/74, 23/745, 23/75, 23/77, 23/79, 23/80, 23/81, 23/82, 2023/83, 2023/831, 2023/832, 2023/833, 2023/834, 2023/835, 2023/836, 2023/837, 2023/838, 2023/84, 2023/85, 2023/86, 2023/87, 2023/872, 2023/874, 2023/876, 2023/878, 2023/88
	F24S	25/00, 2025/01, 2025/011, 2025/012, 2025/013, 2025/014, 2025/015, 2025/016, 2025/017, 2025/018, 2025/019, 2025/02, 2025/021, 2025/022, 2025/023, 25/10, 25/11, 25/12, 25/13, 25/15, 25/16, 25/20, 25/30, 25/33, 25/35, 25/37, 25/40, 25/50,

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		25/60, 2025/6001, 2025/6002, 2025/6003, 2025/6004, 2025/6005, 2025/6006, 2025/6007, 2025/6008, 2025/6009, 2025/601, 2025/6011, 2025/6012, 2025/6013, 25/61, 25/613, 25/615, 25/617, 25/63, 25/632, 25/634, 25/636, 25/65, 25/67, 25/70, 2025/80, 2025/801, 2025/802, 2025/803, 2025/804, 2025/805, 2025/806, 2025/807
	F24S	30/00, 2030/10, 2030/11, 2030/115, 2030/12, 2030/13, 2030/131, 2030/132, 2030/133, 2030/134, 2030/135, 2030/136, 2030/137, 2030/14, 2030/145, 2030/15, 2030/16, 2030/17, 2030/18, 2030/19, 30/20, 30/40, 30/42, 30/422, 30/425, 30/428, 30/45, 30/452, 30/455, 30/458, 30/48
	F24S	40/00, 40/10, 40/20, 40/40, 40/42, 40/44, 40/46, 40/48, 40/50, 40/52, 40/53, 40/55, 40/57, 40/58, 40/60, 40/70, 40/80, 40/85, 40/90
	F24S	50/00, 50/20, 2050/25, 50/40, 50/60, 50/80
	F24S	60/00, 60/10, 60/20, 60/30
	F24S	70/00, 70/10, 70/12, 70/14, 70/16, 70/20, 70/225, 70/25, 70/275, 70/30, 70/60, 2070/62, 70/65
	F24S	80/00, 2080/01, 2080/011, 2080/012, 2080/013, 2080/014, 2080/015, 2080/016, 2080/017, 2080/018, 2080/03, 2080/05, 2080/07, 2080/09, 80/10, 80/20, 80/30, 80/40, 80/45, 80/453, 80/457, 80/50, 2080/501, 2080/502, 2080/503, 80/52, 80/525, 80/54, 80/56, 80/58, 80/60, 80/65, 80/70
	F24S	90/00, 90/10
	F24S	2201/00
	F24T	SUBCLASS
	F24T	10/00, 10/10, 10/13, 10/15, 10/17, 10/20, 10/30, 10/40, 2010/50, 2010/53, 2010/56
	F24T	50/00
	F24T	2201/00
	F24V	SUBCLASS
	F24V	30/00
	F24V	40/00, 40/10
	F24V	50/00
	F24V	99/00
Titles Changed:	F28D	20/00
	H02S	SUBCLASS
Warnings New:	F24S	10/80
	F24S	10/90, 10/95
	F24S	20/00, 20/30, 20/50, 20/55, 20/66, 20/69, 20/70

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	F24S	21/00
	F24S	23/00, 23/71, 23/74, 2023/88
	F24S	30/00, 30/20, 30/40, 30/42, 30/422, 30/425, 30/428, 30/45, 30/452, 30/458, 30/48,
	F24S	40/00, 40/42, 40/53, 40/90
	F24S	50/20
	F24S	60/00, 60/10, 60/20, 60/30,
	F24S	70/00, 70/20, 70/225, 70/25, 70/275, 2070/62,
	F24S	80/00, 80/50, 80/52, 80/525, 80/54, 80/56, 80/58,
	F24S	90/10
	F24T	10/00, 10/10, 10/30, 10/40
	F24T	50/00
Warnings Modified:	E04D	SUBCLASS
	H02S	20/00
	H02S	40/00
Notes Deleted:	F24J	2/00
Notes New:	F24S	SUBCLASS
	F24S	25/00
	F24S	30/00
Notes Modified:	G05D	SUBCLASS
	H02S	20/00
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	F24J	Subclass
	F24J	1/00
	F24J	2/00, 2/38
	F24J	3/00
Definitions Modified:	F22B	1/00
	F24H	1/00
	F28D	20/00
	H02S	SUBCLASS

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):

A01G, B08B, B60H, B63B, B63J, B65D, C04B, C06B, C06C, C09K, E04B, E04C, E04D, E04H, F01K, F03G, F16B, F16M, F21S, F22B, F22G, F23B, F23C, F24C, F24D, F24F, F24H, F24J, F25B, F26B, F28D, G02B, G05B, G05D, H01L, H02S

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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)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS F24J - PRODUCING OR USE OF HEAT NOT OTHERWISE PROVIDED FOR (materials therefor C09K5/00; engines or other mechanisms for producing mechanical power from heat, see the relevant classes, e.g. F03G for using natural heat)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in{curly brackets}**</u>	<u>Transferred to#</u>
D	F24J	subclass	PRODUCING OR USE OF HEAT NOT OTHERWISE PROVIDED FOR (materials therefor C09K5/00; engines or other mechanisms for producing mechanical power from heat, see the relevant classes, e.g. F03G for using natural heat)	
D	F24J1/00	0	Apparatus or devices using heat produced by exothermal chemical reactions other than by combustion (for cooking-vessels A47J36/28; self-heating compresses A61F {A61F7/03}); materials for the production of heat or cold involving non-reversible chemical reactions, other than by combustion, when used C09K5/18)	<administrative transfer to F24V30/00>
D	F24J2/00	0	Use of solar heat, e.g. solar heat collectors (distillation or evaporation of water using solar energy C02F1/14; devices for producing mechanical power from solar energy F03G6/00; semiconductor devices specially adapted for converting solar energy into electrical energy H01L31/00; photovoltaic [PV] cells including means directly associated with the PV cell to utilise heat energy H01L31/0525; PV modules including means associated with the PV module to utilise heat energy H02S40/44)	<administrative transfer to F24S21/00>
D	F24J2/0007	1	{Passive solar heat collectors }	<administrative transfer to F24S20/61>
D	F24J2/0015	1	{Solar heat collectors absorbing essentially direct solar radiation combined with a solar heat collector absorbing concentrated radiation }	<administrative transfer to F24S20/25>
D	F24J2/0023	1	{Solar heat collector using additional ambient air heat or another heat source, e.g. electrical }	<administrative transfer to F24S20/40>

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D	F24J2002/003	1	{Heat traps}	<administrative transfer to F24S2023/88>
D	F24J2002/0038	1	{Solar modules layout; Modular arrangements}	<administrative transfer to F24S2020/10>
D	F24J2002/0046	2	{in the form of multiple rows and multiple columns, all solar modules being coplanar}	<administrative transfer to F24S2020/11>
D	F24J2002/0053	2	{Coplanar arrangements with frame overlapping portions}	<administrative transfer to F24S2020/12>
D	F24J2002/0061	2	{Overlaying arrangements similar to roof tiles}	<administrative transfer to F24S2020/13>
D	F24J2002/0069	2	{Stepped arrangements, e.g. in parallel planes, without module overlapping}	<administrative transfer to F24S2020/14>
D	F24J2002/0076	2	{Non-parallel arrangements}	<administrative transfer to F24S2020/15>
D	F24J2002/0084	2	{Preventing shading effects}	<administrative transfer to F24S2020/16>
D	F24J2002/0092	2	{Arrangements of solar thermal modules combined with solar PV modules}	<administrative transfer to F24S2020/17>
D	F24J2/02	1	Solar heat collectors with support for article heated, e.g. stoves, ranges, crucibles, furnaces or ovens using solar heat	<administrative transfer to F24S20/30>
D	F24J2/04	1	Solar heat collectors having working fluid conveyed through collector	<administrative transfer to F24S10/00>
D	F24J2002/0405	2	{having a particular shape, e.g. prismatic, pyramidal}	<administrative transfer to F24S2020/18>
D	F24J2002/0411	3	{in the form of louvers}	<administrative transfer to F24S2020/183>
D	F24J2002/0416	3	{allowing change of position for optimization of heat collection}	<administrative transfer to F24S2020/186>
D	F24J2/0422	2	{Solar collectors integrated in fixed constructions, e.g. in buildings}	<administrative transfer to F24S20/60>
D	F24J2/0427	3	{in the form of a fence, a balustrade or a handrail}	<administrative transfer to F24S20/62>
D	F24J2/0433	3	{in the form of a window}	<administrative transfer to F24S20/63>
D	F24J2/0438	3	{in the form of a floor construction}	<administrative transfer to F24S20/64>
D	F24J2/0444	3	{in the form of a façade construction}	<administrative transfer to F24S20/66>
D	F24J2/045	3	{in the form of a roof construction (F24J2/0455 takes precedence)}	<administrative transfer to F24S20/67>
D	F24J2/0455	3	{in the form of shingles or tiles}	<administrative transfer to F24S20/69>
D	F24J2/0461	2	{using pools or ponds}	<administrative transfer to F24S10/10>
D	F24J2/0466	3	{Salt gradient solar ponds}	<administrative transfer to F24S10/13>
D	F24J2/0472	3	{Floating solar collectors or covers}	<administrative transfer to F24S10/17>
D	F24J2/0477	2	{having circuits for more than one working fluid (F24J2/30 takes precedence)}	<administrative transfer to F24S10/20>

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D	F24J2/0483	2	{having two or more passages for the same working fluid (F24J2/20, F24J2/24 take precedence)}	<administrative transfer to F24S10/25>
D	F24J2/0488	2	{Solar heat collectors having absorber surfaces of a particular form}	<administrative transfer to F24S70/60>
D	F24J2/0494	3	{having two or more absorber surfaces}	<administrative transfer to F24S70/65>
D	F24J2/05	2	surrounded by a transparent enclosure, e.g. evacuated solar collectors	<administrative transfer to F24S10/40>
D	F24J2/055	3	{the enclosure being cylindrical}	<administrative transfer to F24S10/45>
D	F24J2/06	2	having concentrating elements (optical elements or systems per se G02B)	<administrative transfer to F24S23/00>
D	F24J2/062	3	{Prisms}	<administrative transfer to F24S23/10>
D	F24J2/065	3	{Fluorescent material}	<administrative transfer to F24S23/11>
D	F24J2/067	3	{Light guides}	<administrative transfer to F24S23/12>
D	F24J2/07	3	Receivers working at high temperature, e.g. for solar power plants	<administrative transfer to F24S20/20>
D	F24J2002/075	4	{movable or adjustable}	<administrative transfer to F24S 2020/23>
D	F24J2/08	3	having lenses as concentrating elements	<administrative transfer to F24S23/30>
D	F24J2/085	4	{having discontinuous faces, e.g. Fresnel lenses}	<administrative transfer to F24S23/31>
D	F24J2/10	3	having reflectors as concentrating elements	<administrative transfer to F24S23/70>
D	F24J2002/1004	4	{Special shape not covered by F24J2/1047 - F24J2/18}	<administrative transfer to F24S2023/83>
D	F24J2002/1009	5	{corrugated}	<administrative transfer to F24S2023/831>
D	F24J2002/1014	5	{curved}	<administrative transfer to F24S2023/832>
D	F24J2002/1019	5	{dish-shaped}	<administrative transfer to F24S2023/833>
D	F24J2002/1023	5	{trough-shaped}	<administrative transfer to F24S2023/834>
D	F24J2002/1028	6	{asymmetric}	<administrative transfer to F24S2023/835>
D	F24J2002/1033	5	{spiral}	<administrative transfer to F24S2023/836>
D	F24J2002/1038	5	{hyperbolic}	<administrative transfer to F24S2023/837>
D	F24J2002/1042	5	{involutives}	<administrative transfer to F24S2023/838>
D	F24J2/1047	4	{having discontinuous faces}	<administrative transfer to F24S23/80>
D	F24J2/1052	4	{flexible (F24J2/125, F24J2/145 take precedence)}	<administrative transfer to F24S23/81>

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D	F24J2/1057	4	{ characterised by the material or the construction of the reflector }	<administrative transfer to F24S23/82>
D	F24J2002/1061	4	{ Reflective elements inside solar collector casings }	<administrative transfer to F24S2023/84>
D	F24J2002/1066	4	{ Microreflectors }	<administrative transfer to F24S2023/85>
D	F24J2002/1071	4	{ in the form of reflective coatings }	<administrative transfer to F24S2023/86>
D	F24J2002/1076	4	{ Reflectors layout }	<administrative transfer to F24S2023/87>
D	F24J2002/108	5	{ Assemblies of spaced reflective elements on common support, e.g. Fresnel reflectors }	<administrative transfer to F24S2023/872>
D	F24J2002/1085	5	{ Reflectors formed by assemblies of adjacent similar reflective facets }	<administrative transfer to F24S2023/874>
D	F24J2002/109	5	{ Reflectors formed by assemblies of adjacent reflective elements having different orientation or different features }	<administrative transfer to F24S2023/876>
D	F24J2002/1095	5	{ Assemblies of spaced reflective elements in the form of grids, e.g. vertical or inclined reflective elements extending over heat absorbing elements }	<administrative transfer to F24S2023/878>
D	F24J2/12	4	parabolic	<administrative transfer to F24S23/71>
D	F24J2/125	5	{ flexible }	<administrative transfer to F24S23/715>
D	F24J2/13	4	hemispherical	<administrative transfer to F24S23/72>
D	F24J2/14	4	semi-cylindrical or cylindro-parabolic	<administrative transfer to F24S23/74>
D	F24J2/145	5	{ flexible }	<administrative transfer to F24S23/745>
D	F24J2/15	4	conical	<administrative transfer to F24S23/75>
D	F24J2/16	4	having flat plates	<administrative transfer to F24S23/77>
D	F24J2/18	4	spaced, opposed interacting reflecting surfaces	<administrative transfer to F24S23/79>
D	F24J2/20	2	the working fluid being conveyed between plates	<administrative transfer to F24S10/50>
D	F24J2/201	3	{ having conduits of plastic material }	<administrative transfer to F24S10/501>
D	F24J2/202	3	{ having conduits formed by paired plates and internal partition means }	<administrative transfer to F24S10/502>
D	F24J2/204	3	{ having conduits formed by paired plates, only one of which is plane }	<administrative transfer to F24S10/503>
D	F24J2/205	3	{ having conduits formed by paired non-plane plates }	<administrative transfer to F24S10/504>
D	F24J2/207	3	{ having curved plate-like conduits, e.g. semi-spherical }	<administrative transfer to F24S10/505>
D	F24J2/208	3	{ having conduits formed by inflation of portions of a pair of joined sheets }	<administrative transfer to F24S10/506>

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D	F24J2/22	3	having extended surfaces, e.g. protrusions, corrugations (F24J2/28 takes precedence)	<administrative transfer to F24S10/55>
D	F24J2/23	2	the working fluid trickling freely {or flowing in a continuous film} over collector elements	<administrative transfer to F24S10/60>
D	F24J2/24	2	the working fluid being conveyed through tubular heat absorbing conduits	<administrative transfer to F24S10/70>
D	F24J2002/241	3	{the conduits having a non-circular cross-section}	<administrative transfer to F24S2010/71>
D	F24J2/242	3	{the tubular conduits being integrated in a block; the tubular conduits touching each other}	<administrative transfer to F24S10/72>
D	F24J2/243	3	{the tubular conduits being of plastic material}	<administrative transfer to F24S10/73>
D	F24J2/244	3	{the tubular conduits are not fixed to heat absorbing plates and are not touching each other}	<administrative transfer to F24S10/74>
D	F24J2/245	4	{the conduits being parallel to each other}	<administrative transfer to F24S10/742>
D	F24J2/246	4	{the conduits being helically coiled}	<administrative transfer to F24S10/744>
D	F24J2/247	4	{the conduits being spirally coiled}	<administrative transfer to F24S10/746>
D	F24J2/248	4	{the conduits being otherwise bent, e.g. zig-zag}	<administrative transfer to F24S10/748>
D	F24J2/26	3	having extended surfaces, e.g. protrusions (F24J2/28 takes precedence)	<administrative transfer to F24S10/75>
D	F24J2002/261	4	{Special fins}	<administrative transfer to F24S2010/751>
D	F24J2002/263	5	{extending obliquely}	<administrative transfer to F24S2010/752>
D	F24J2/265	4	{the conduits being parallel to each other}	<administrative transfer to F24S10/753>
D	F24J2/266	4	{the conduits being spirally coiled}	<administrative transfer to F24S10/754>
D	F24J2/268	4	{the conduits being otherwise bent, e.g. zig-zag}	<administrative transfer to F24S10/755>
D	F24J2/28	2	having permeable mass, foraminous or porous materials	<administrative transfer to F24S10/80>
D	F24J2/30	2	with means to exchange heat between plural fluids	<administrative transfer to F24S10/30>
D	F24J2/32	2	having evaporator and condenser section, e.g. heat pipe	<administrative transfer to F24S10/90>
D	F24J2/34	2	having heat storage mass	<administrative transfer to F24S60/00>
D	F24J2/345	3	{Hot water storage}	<administrative transfer to F24S60/30>
D	F24J2/36	1	Rollable or foldable collector units	<administrative transfer to F24S20/50>

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D	F24J2/38	1	employing tracking means (F24J2/02, F24J2/06 take precedence; rotary supports or mountings therefor F24J2/54; supporting structures of photovoltaic modules for generation of electric power specially adapted for solar tracking systems H02S20/32)	<administrative transfer to F24S50/20>
D	F24J2002/385	2	{ Calibration means; Methods for initial positioning of solar concentrators or solar receivers }	<administrative transfer to F24S2050/25>
D	F24J2/40	1	Control arrangements {(control of position for tracking F24J 2/38)}	<administrative transfer to F24S50/00>
D	F24J2/402	2	{ responsive to temperature }	<administrative transfer to F24S50/40>
D	F24J2/405	2	{ responsive to wind }	<administrative transfer to F24S50/60>
D	F24J2/407	2	{ for controlling transmission of solar radiation }	<administrative transfer to F24S50/80>
D	F24J2/42	1	Solar heat systems not otherwise provided for {(solar heat systems in greenhouses A01G9/243; distillation by solar energy C02F1/14; devices for producing mechanical power from solar energy F03G6/00; central heat systems using heat solar energy F24D11/003, F24D11/007, F24D11/0221, F24D11/0264; domestic hot-water supply systems using solar energy F24D17/0015, F24D17/0042, F24D17/0063; air-conditioning systems using solar energy F24F5/0046; refrigeration machines, plants or systems using solar energy F25B27/002; drying solid materials or objects by radiation, e.g. from the sun F26B3/28)}	<administrative transfer to F24S90/00>
D	F24J2/423	2	{ for swimming pools }	<administrative transfer to F24S20/02>
D	F24J2/426	2	{ for showers }	<administrative transfer to F24S20/04>
D	F24J2/44	2	having thermosiphonic circulation	<administrative transfer to F24S90/10>
D	F24J2/46	1	Component parts, details or accessories of solar heat collectors	<administrative transfer to F24S80/00>
D	F24J2002/4601	2	{ Arrangements for heat transfer optimization }	<administrative transfer to F24S2080/03>
D	F24J2002/4603	3	{ Flow guiding means; Inserts inside conduits }	<administrative transfer to F24S2080/05>
D	F24J2002/4605	3	{ Arrangements for one-way heat transfer, e.g. thermal diodes }	<administrative transfer to F24S2080/07>
D	F24J2/4607	2	{ Safety or protection arrangements; Arrangements for preventing malfunction; Auxiliary devices, e.g. means for testing (control means F24J2/40) }	<administrative transfer to F24S40/00>

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D	F24J2/4609	3	{Protective covers, lids; closure members (F24J2/50 takes precedence)}	<administrative transfer to F24S40/10>
D	F24J2/461	3	{Means for cleaning or for removing snow}	<administrative transfer to F24S40/20>
D	F24J2/4612	3	{Means for preventing corrosion or protecting against contaminants, e.g. preventing condensations}	<administrative transfer to F24S40/40>
D	F24J2/4614	4	{for draining rain water}	<administrative transfer to F24S40/44>
D	F24J2/4616	4	{for maintaining vacuum, e.g. by using getters}	<administrative transfer to F24S40/46>
D	F24J2/4618	4	{for preventing condensation}	<administrative transfer to F24S40/42>
D	F24J2/462	4	{for deaerating or degassing the working fluid}	<administrative transfer to F24S40/48>
D	F24J2/4621	3	{Means for overtemperature protection (arrangements for draining the working fluid: F24J2/4634); Means for overpressure protection}	<administrative transfer to F24S40/50>
D	F24J2/4623	4	{Arrangements for modifying heat collecting features, e.g. by defocusing or by changing the position of heat receiving elements}	<administrative transfer to F24S40/52>
D	F24J2/4625	4	{Cooling arrangements, e.g. by using external heat dissipating means or internal cooling circuits (F24J2/4627 takes precedence)}	<administrative transfer to F24S40/55>
D	F24J2/4627	4	{Arrangements for venting solar collector enclosures}	<administrative transfer to F24S40/53>
D	F24J2/4629	4	{Arrangements for preventing overpressure inside solar collector enclosures (F24J2/4627 takes precedence)}	<administrative transfer to F24S40/57>
D	F24J2/463	4	{Arrangements for preventing overpressure inside solar collector circuits}	<administrative transfer to F24S40/58>
D	F24J2/4632	3	{Means for freezing protection (arrangements for draining the working fluid: F24J2/4634)}	<administrative transfer to F24S40/70>
D	F24J2/4634	3	{Arrangements for draining the working fluid}	<administrative transfer to F24S40/60>
D	F24J2/4636	3	{Arrangements to accommodate differential expansion of solar collector elements}	<administrative transfer to F24S40/80>
D	F24J2/4638	3	{Arrangements for protecting solar collectors against adverse weather conditions (F24J2/4609 takes precedence)}	<administrative transfer to F24S40/85>
D	F24J2/464	2	{Casings}	<administrative transfer to F24S80/40>
D	F24J2/4641	3	{characterised by using specific material}	<administrative transfer to F24S80/45>
D	F24J2/4643	4	{Plastic materials}	<administrative transfer to F24S80/457>

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D	F24J2/4645	4	{Metallic materials}	<administrative transfer to F24S80/453>
D	F24J2/4647	2	{Means for fluidically interconnecting different solar collectors or for connecting solar connectors with other components; Headers; Fluid distributing means}	<administrative transfer to F24S80/30>
D	F24J2/4649	2	{Selection of particular working medium (materials for heat transfer C09K5/00)}	<administrative transfer to F24S80/20>
D	F24J2/465	2	{Arrangements of sealing means}	<administrative transfer to F24S80/70>
D	F24J2/4652	2	{Solar heat collectors having absorber surfaces provided with special coatings, e.g. anti-reflective coatings}	<administrative transfer to F24S70/30>
D	F24J2/4654	2	{Materials for the heat-exchange conduits (F24J2/201, F24J2/243, F24J2/48 take precedence)}	<administrative transfer to F24S80/10>
D	F24J2002/4656	2	{Arrangements for reinforcement of solar collector elements}	<administrative transfer to F24S2080/09>
D	F24J2002/4658	2	{Fastening; Joining}	<administrative transfer to F24S25/60>
D	F24J2002/4659	3	{by using hook and loop-type fasteners}	<administrative transfer to F24S 2025/6001>
D	F24J2002/4661	3	{by using hooks}	<administrative transfer to F24S 2025/6002>
D	F24J2002/4663	3	{by clamping}	<administrative transfer to F24S 2025/6003>
D	F24J2002/4665	3	{by clipping, e.g. by using snap connectors}	<administrative transfer to F24S 2025/6004>
D	F24J2002/4667	3	{by screwed connection}	<administrative transfer to F24S 2025/6005>
D	F24J2002/4669	3	{by using threaded elements, e.g. stud bolts}	<administrative transfer to F24S 2025/6006>
D	F24J2002/467	3	{by using form-fitting connection means, e.g. tongue and groove}	<administrative transfer to F24S 2025/6007>
D	F24J2002/4672	3	{by using toothed elements}	<administrative transfer to F24S 2025/6008>
D	F24J2002/4674	3	{by deforming the material, e.g. by crimping or clinching}	<administrative transfer to F24S 2025/6009>
D	F24J2002/4676	3	{by bonding, e.g. by using adhesives}	<administrative transfer to F24S 2025/601>
D	F24J2002/4678	3	{by welding or brazing}	<administrative transfer to F24S 2025/6011>
D	F24J2002/4679	3	{Joining different materials}	<administrative transfer to F24S 2025/6012>
D	F24J2002/4681	4	{Joining glass with non-glass elements}	<administrative transfer to F24S 2025/6013>
D	F24J2002/4683	2	{Selection of particular materials}	<administrative transfer to F24S2080/01>
D	F24J2002/4685	3	{Ceramics}	<administrative transfer to F24S2080/011>
D	F24J2002/4687	3	{Concrete}	<administrative transfer to F24S2080/012>

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D	F24J2002/4689	3	{Foams}	<administrative transfer to F24S2080/013>
D	F24J2002/469	3	{Carbone, e.g. graphite}	<administrative transfer to F24S2080/014>
D	F24J2002/4692	3	{Plastics}	<administrative transfer to F24S2080/015>
D	F24J2002/4694	3	{Textiles; Fabrics}	<administrative transfer to F24S2080/016>
D	F24J2002/4696	3	{Natural materials, e.g. wood}	<administrative transfer to F24S2080/017>
D	F24J2002/4698	3	{Recycled materials}	<administrative transfer to F24S2080/018>
D	F24J2/48	2	characterised by absorber material	<administrative transfer to F24S70/10>
D	F24J2/481	3	{of metallic material (F24J2/487 takes precedence)}	<administrative transfer to F24S70/12>
D	F24J2/482	3	{of plastic (F24J2/488 takes precedence)}	<administrative transfer to F24S70/14>
D	F24J2/484	3	{of ceramic; of concrete; of natural stone (F24J2/485 takes precedence)}	<administrative transfer to F24S70/16>
D	F24J2/485	3	{using absorber coatings (radiation-absorbing paints C09D5/32)}	<administrative transfer to F24S70/20>
D	F24J2/487	4	{of metallic material}	<administrative transfer to F24S70/25>
D	F24J2/488	4	{of plastic material}	<administrative transfer to F24S70/275>
D	F24J2/50	2	Transparent coverings	<administrative transfer to F24S80/50>
D	F24J2002/501	3	{Special shape}	<administrative transfer to F24S2080/501>
D	F24J2002/502	4	{in the form of multiple covering elements}	<administrative transfer to F24S2080/502>
D	F24J2002/503	4	{in the form of curved covering elements}	<administrative transfer to F24S2080/503>
D	F24J2/505	3	{characterised by using specific material}	<administrative transfer to F24S80/52>
D	F24J2/506	4	{plastic material}	<administrative transfer to F24S80/525>
D	F24J2/507	3	{using evacuated elements (F24J2/05 takes precedence)}	<administrative transfer to F24S80/54>
D	F24J2002/508	3	{Transparent insulation; Convection preventing members}	<administrative transfer to F24S80/56>
D	F24J2/51	2	Thermal insulation (F24J2/50 takes precedence)	<administrative transfer to F24S80/60>
D	F24J2/515	3	{characterised by the material}	<administrative transfer to F24S80/65>
D	F24J2/52	2	Arrangement of mountings or supports	<administrative transfer to F24S25/00>
D	F24J2/5201	3	{Stationary supporting structures for solar modules; Load-bearing elements for movable supporting structures}	<administrative transfer to F24S25/00>

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D	F24J2/5203	4	{ comprising elongated rigid mounting elements, e.g. mounting profiles or rails for covering a building surface with solar modules; Module frames (F24J2/523 takes precedence)}	<administrative transfer to F24S25/30>
D	F24J2/5205	5	{ Substantially planar profile assemblies, e.g. grids comprising coplanar profiles or stacked profiles }	<administrative transfer to F24S25/33>
D	F24J2/5207	6	{ comprising profiles of particular shape having in cross-section first and second module supporting portions for coupling adjacent solar modules }	<administrative transfer to F24S25/35>
D	F24J2/5209	6	{ Substantially coplanar profile assemblies comprising longitudinal profiles laterally coupled with transversal profiles }	<administrative transfer to F24S25/37>
D	F24J2/5211	5	{ Solar module peripheral frames }	<administrative transfer to F24S25/20>
D	F24J2002/5213	5	{ Special profiles }	<administrative transfer to F24S2025/80>
D	F24J2002/5215	6	{ having hollow parts with closed cross-section }	<administrative transfer to F24S2025/801>
D	F24J2002/5216	6	{ having circular or oval cross-section }	<administrative transfer to F24S2025/802>
D	F24J2002/5218	6	{ having a central web, e.g. I-shaped, inverted T- shaped }	<administrative transfer to F24S2025/803>
D	F24J2002/522	6	{ U-, C- or O-shaped; Hat profiles }	<administrative transfer to F24S2025/804>
D	F24J2002/5222	6	{ in the form of corrugated profiles }	<administrative transfer to F24S2025/805>
D	F24J2002/5224	6	{ having curved portions }	<administrative transfer to F24S2025/806>
D	F24J2002/5226	6	{ having undercut grooves }	<administrative transfer to F24S2025/807>
D	F24J2/5228	4	{ comprising plate-like mounting elements, e.g. profiled or corrugated plates; Plate-like module frames (F24J2/523 takes precedence)}	<administrative transfer to F24S25/40>
D	F24J2/523	4	{ comprising elongated standing elements, e.g. posts, legs; Standing structures for supporting solar modules at defined orientation; Three-dimensional frameworks; Volumetric supporting structures, e.g. box-like elements or shaped bodies }	<administrative transfer to F24S25/10>
D	F24J2/5232	5	{ Posts coupled with upper profiles }	<administrative transfer to F24S25/12>
D	F24J2/5233	5	{ Profile arrangements, e.g. assemblies of base profiles with vertical or inclined profiles, three-dimensional frameworks (F24J2/5232 takes precedence)}	<administrative transfer to F24S25/13>
D	F24J2/5235	5	{ comprising bent plates or assemblies of plates }	<administrative transfer to F24S25/15>

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D	F24J2/5237	5	{ comprising shaped bodies, e.g. molded box-like elements, concrete elements, foamed elements; Massive supporting structures }	<administrative transfer to F24S25/11>
D	F24J2/5239	5	{ Interconnected assemblies of stands; Stands having first and second module supporting portions for coupling adjacent modules }	<administrative transfer to F24S25/16>
D	F24J2/5241	4	{ comprising elongated non rigid elements, e.g. straps, wires, ropes }	<administrative transfer to F24S25/50>
D	F24J2/5243	4	{ Fixation means, e.g. connectors or fasteners }	<administrative transfer to F24S25/60>
D	F24J2/5245	5	{ Connectors for anchoring solar modules or supporting elements to the ground or to building structures }	<administrative transfer to F24S25/61>
D	F24J2/5247	6	{ in the form of bent strips or assemblies of strips; Hook-like connectors; Connectors to be mounted between building covering elements }	<administrative transfer to F24S25/613>
D	F24J2/5249	6	{ for anchoring to protrusions of buildings, e.g. to corrugations or to standing seams }	<administrative transfer to F24S25/615>
D	F24J2/525	6	{ Ground anchoring means; Foundations for supporting elements; Massive elements for anchoring supporting structures to the ground or to flat horizontal surfaces }	<administrative transfer to F24S25/617>
D	F24J2/5252	5	{ Connectors for fixing solar modules, or solar module peripheral frames to supporting elements, e.g. to profiled mounting members }	<administrative transfer to F24S25/63>
D	F24J2/5254	6	{ Solar module side connectors or base connectors }	<administrative transfer to F24S25/632>
D	F24J2/5256	6	{ Clamping or clipping elements }	<administrative transfer to F24S25/634>
D	F24J2/5258	7	{ with clamping action by using screw-threaded elements }	<administrative transfer to F24S25/636>
D	F24J2/526	5	{ Connectors for coupling adjacent supporting elements together, e.g. profile to profile connectors }	<administrative transfer to F24S25/65>
D	F24J2/5262	5	{ Connectors for coupling adjacent solar modules or solar module peripheral frames together (F24J2/5252 takes precedence) }	<administrative transfer to F24S25/67>
D	F24J2/5264	4	{ comprising means for adjusting the final position or the final orientation of a supporting element relative to another one or relative to a mounting surface; comprising means for compensating mounting tolerances }	<administrative transfer to F24S25/70>
D	F24J2/5266	3	{ adapted for non-rotary movement }	<administrative transfer to F24S30/20>
D	F24J2/5267	3	{ Waterborne solar collectors }	<administrative transfer to F24S20/70>

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D	F24J2/5269	4	{Moving platforms}	<administrative transfer to F24S20/70>
D	F24J2/5271	3	{Airborne solar collectors, e.g. using inflated structures (F24J2/0472, F24J2/5267 take precedence)}	<administrative transfer to F24S20/80>
D	F24J2002/5273	3	{Details; Special support components or methods}	<administrative transfer to F24S2025/01>
D	F24J2002/5275	4	{Arrangements for mounting elements inside solar collectors; Spacers inside solar collectors}	<administrative transfer to F24S2025/011>
D	F24J2002/5277	4	{Foldable support elements}	<administrative transfer to F24S2025/012>
D	F24J2002/5279	4	{Stackable support elements}	<administrative transfer to F24S2025/013>
D	F24J2002/5281	4	{Methods for installing support elements}	<administrative transfer to F24S2025/014>
D	F24J2002/5283	4	{Supports with play between elements}	<administrative transfer to F24S2025/015>
D	F24J2002/5284	4	{Filling or spacing means; Elastic means}	<administrative transfer to F24S2025/016>
D	F24J2002/5286	4	{Tensioning means}	<administrative transfer to F24S2025/017>
D	F24J2002/5288	4	{Means for preventing movements, e.g. stops}	<administrative transfer to F24S2025/018>
D	F24J2002/529	4	{Means for accommodating irregularities on mounting surface; Tolerance compensation means}	<administrative transfer to F24S2025/019>
D	F24J2002/5292	4	{Ballasting means}	<administrative transfer to F24S2025/02>
D	F24J2002/5294	4	{Sealing means between support elements and mounting surface}	<administrative transfer to F24S2025/021>
D	F24J2002/5296	4	{Sealing means between support elements, e.g. overlapping arrangements; Gap closing arrangements}	<administrative transfer to F24S2025/022>
D	F24J2002/5298	4	{Means for preventing theft; Locking means}	<administrative transfer to F24S2025/023>
D	F24J2/54	3	specially adapted for rotary movement {(F24J2/5269 takes precedence)}	<administrative transfer to F24S30/40>
D	F24J2/5403	4	{with only one rotation axis}	<administrative transfer to F24S30/42>
D	F24J2/5406	5	{with vertical axis}	<administrative transfer to F24S30/422>
D	F24J2/541	5	{with horizontal axis}	<administrative transfer to F24S30/425>
D	F24J2/5413	5	{with inclined axis}	<administrative transfer to F24S30/428>
D	F24J2/5417	4	{with two rotation axis}	<administrative transfer to F24S30/45>
D	F24J2/542	5	{with vertical primary axis}	<administrative transfer to F24S30/452>
D	F24J2/5424	5	{with horizontal primary axis}	<administrative transfer to F24S30/455>

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D	F24J2/5427	5	{ with inclined primary axis }	<administrative transfer to F24S30/458>
D	F24J2/5431	4	{ with more than two rotation axis or with multiple degrees of freedom }	<administrative transfer to F24S30/48>
D	F24J2002/5434	4	{ Special components }	<administrative transfer to F24S2030/10>
D	F24J2002/5437	5	{ Driving means }	<administrative transfer to F24S2030/11>
D	F24J2002/5441	6	{ hydraulic or pneumatic }	<administrative transfer to F24S2030/115>
D	F24J2002/5444	5	{ Coupling means }	<administrative transfer to F24S2030/12>
D	F24J2002/5448	5	{ Transmissions }	<administrative transfer to F24S2030/13>
D	F24J2002/5451	6	{ in the form of articulated bars }	<administrative transfer to F24S2030/131>
D	F24J2002/5455	7	{ in the form of compasses, scissors or parallelograms }	<administrative transfer to F24S2030/132>
D	F24J2002/5458	6	{ in the form of flexible elements, e.g. belts, chains, ropes }	<administrative transfer to F24S2030/133>
D	F24J2002/5462	6	{ in the form of gears or rack-and-pinion transmissions }	<administrative transfer to F24S2030/134>
D	F24J2002/5465	6	{ in the form of threaded elements }	<administrative transfer to F24S2030/135>
D	F24J2002/5468	6	{ for moving several solar collectors by common transmission elements }	<administrative transfer to F24S2030/136>
D	F24J2002/5472	6	{ for deriving one movement from another one, e.g. for deriving elevation movement from azimuth movement }	<administrative transfer to F24S2030/137>
D	F24J2002/5475	5	{ Movement guiding means }	<administrative transfer to F24S2030/14>
D	F24J2002/5479	6	{ Tracks }	<administrative transfer to F24S2030/145>
D	F24J2002/5482	5	{ Bearings }	<administrative transfer to F24S2030/15>
D	F24J2002/5486	6	{ Hinged elements; Pin connections }	<administrative transfer to F24S2030/16>
D	F24J2002/5489	6	{ Spherical joints }	<administrative transfer to F24S2030/17>
D	F24J2002/5493	5	{ Load balancing means, e.g. use of counter-weights }	<administrative transfer to F24S2030/18>
D	F24J2002/5496	5	{ Movement dampening means; Braking means }	<administrative transfer to F24S2030/19>
D	F24J3/00	0	Other production or use of heat, not derived from combustion (use of solar heat F24J2/00)	<administrative transfer to F24V99/00>
D	F24J3/003	1	{ using heat resulting from internal friction of a moving fluid or from friction between a fluid and a moving body }	<administrative transfer to F24V40/00>
D	F24J3/006	2	{ the fluid passing through a restriction means }	<administrative transfer to F24V40/10>

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D	F24J3/06	1	using natural heat	<administrative transfer to F24V50/00>
D	F24J3/08	2	using geothermal heat	<administrative transfer to F24T10/00>
D	F24J3/081	3	{by circulating a working fluid through underground channels, the working fluid not coming into direct contact with the ground}	<administrative transfer to F24T10/10>
D	F24J3/082	4	{ Compact tube assemblies inserted into the ground, e.g. geothermal probes }	<administrative transfer to F24T10/13>
D	F24J3/083	5	{ in the form of bent tubes or in the form of tubes assembled with connectors or with return headers }	<administrative transfer to F24T10/15>
D	F24J3/084	5	{ in the form of tubes being closed at one end, i.e. return type }	<administrative transfer to F24T10/17>
D	F24J3/085	3	{by injecting a working fluid directly into the ground or by using underground water, e.g. systems using injection and recovery wells}	<administrative transfer to F24T10/20>
D	F24J3/086	3	{by injecting a working fluid into a closed well; by using intermediate working fluids, e.g. by using heat pipes }	<administrative transfer to F24T10/30>
D	F24J2003/087	3	{ Component parts, details or accessories }	<administrative transfer to F24T2010/50>
D	F24J2003/088	4	{Methods for installation }	<administrative transfer to F24T2010/53>
D	F24J2003/089	4	{ Control arrangements }	<administrative transfer to F24T2010/56>
D	F24J2200/00	0	Prediction; Simulation	<administrative transfer to F24V99/00>
D	F24J2200/04	1	for solar techniques	<administrative transfer to F24S2201/00>
D	F24J2200/06	1	for geothermal techniques	<administrative transfer to F24T2201/00>

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SUBCLASS F24S - SOLAR HEAT COLLECTORS; SOLAR HEAT SYSTEMS (for producing mechanical power from solar energy F03G 6/00)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in{curly brackets}**</u>	<u>Transferred to#</u>
N	F24S	subclass	SOLAR HEAT COLLECTORS; SOLAR HEAT SYSTEMS (for producing mechanical power from solar energy F03G 6/00)	
N	F24S 10/00	0	Solar heat collectors using working fluids	
N	F24S 10/10	1	the working fluids forming pools or ponds	
N	F24S 10/13	2	Salt-gradient ponds	
N	F24S 10/17	2	using covers or floating solar absorbing elements	
N	F24S 10/20	1	having circuits for two or more working fluids (with means for exchanging heat between two or more fluids F24S10/30)	
N	F24S 10/25	1	having two or more passages for the same working fluid layered in direction of solar-rays, e.g. having upper circulation channels connected with lower circulation channels	
N	F24S 10/30	1	with means for exchanging heat between two or more working fluids	
N	F24S 10/40	1	in absorbing elements surrounded by transparent enclosures, e.g. evacuated solar collectors	
N	F24S 10/45	2	{the enclosure being cylindrical}	
N	F24S 10/50	1	the working fluids being conveyed between plates	
N	F24S 10/501	2	{having conduits of plastic material}	
N	F24S 10/502	2	{having conduits formed by paired plates and internal partition means}	
N	F24S 10/503	2	{having conduits formed by paired plates, only one of which is plane}	
N	F24S 10/504	2	{having conduits formed by paired non-plane plates}	
N	F24S 10/505	2	{having curved plate-like conduits, e.g. semi-spherical}	
N	F24S 10/506	2	{having conduits formed by inflation of portions of a pair of joined sheets}	
N	F24S 10/55	2	with enlarged surfaces, e.g. with protrusions or corrugations (collectors comprising porous materials or permeable masses directly contacting the working fluids F24S 10/80)	
N	F24S 10/60	1	the working fluids trickling freely over absorbing elements	

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N	F24S 10/70	1	the working fluids being conveyed through tubular absorbing conduits	
N	F24S 2010/71	2	{the conduits having a non-circular cross-section}	
N	F24S 10/72	2	{the tubular conduits being integrated in a block; the tubular conduits touching each other}	
N	F24S 10/73	2	{the tubular conduits being of plastic material}	
N	F24S 10/74	2	{the tubular conduits are not fixed to heat absorbing plates and are not touching each other}	
N	F24S 10/742	3	{the conduits being parallel to each other}	
N	F24S 10/744	3	{the conduits being helically coiled}	
N	F24S 10/746	3	{the conduits being spirally coiled}	
N	F24S 10/748	3	{the conduits being otherwise bent, e.g. zig-zag}	
N	F24S 10/75	2	with enlarged surfaces, e.g. with protrusions or corrugations (collectors comprising porous material or permeable masses directly contacting the working fluids F24S 10/80)	
N	F24S 2010/751	3	{Special fins}	
N	F24S 2010/752	4	{extending obliquely}	
N	F24S 10/753	3	{the conduits being parallel to each other}	
N	F24S 10/754	3	{the conduits being spirally coiled}	
N	F24S 10/755	3	{the conduits being otherwise bent, e.g. zig-zag}	
Q	F24S 10/80	1	comprising porous material or permeable masses directly contacting the working fluids (for conveying liquefied working fluid from evaporator sections to condenser sections with capillary force F24S 10/95)	F24S 10/80, F24S 10/95
Q	F24S 10/90	1	using internal thermosiphonic circulation	F24S10/90, F24S10/95, F24S90/10
N	F24S 10/95	2	having evaporator sections and condenser sections, e.g. heat pipes	
N	F24S 20/00	0	Solar heat collectors specially adapted for particular uses or environments	
N	F24S 20/02	1	{for swimming pools}	
N	F24S 20/04	1	{for showers}	
N	F24S2020/10	1	{Solar modules layout; Modular arrangements}	
N	F24S2020/11	2	{in the form of multiple rows and multiple columns, all solar modules being coplanar}	
N	F24S2020/12	2	{Coplanar arrangements with frame overlapping portions}	
N	F24S2020/13	2	{Overlaying arrangements similar to roof tiles}	
N	F24S2020/14	2	{Stepped arrangements, e.g. in parallel planes, without module overlapping}	
N	F24S2020/15	2	{Non-parallel arrangements}	

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N	F24S2020/16	2	{Preventing shading effects}	
N	F24S2020/17	2	{Arrangements of solar thermal modules combined with solar PV modules}	
N	F24S2020/18	2	{having a particular shape, e.g. prismatic, pyramidal}	
N	F24S2020/183	3	{in the form of louvers}	
N	F24S2020/186	3	{allowing change of position for optimization of heat collection}	
N	F24S 20/20	1	Solar heat collectors for receiving concentrated solar energy, e.g. receivers for solar power plants	
N	F24S 2020/23	2	{movable or adjustable}	
N	F24S 20/25	2	using direct solar radiation in combination with concentrated radiation	
Q	F24S 20/30	1	Solar heat collectors for heating objects, e.g. solar cookers or solar furnaces	F24S 20/30, F24S 50/20
N	F24S 20/40	1	Solar heat collectors combined with other heat sources, e.g. using electrical heating or heat from ambient air	
Q	F24S 20/50	1	Rollable or foldable solar heat collector modules	F24S 20/50, F24S 20/55
N	F24S 20/55	2	made of flexible materials	
N	F24S 20/60	1	Solar heat collectors integrated in fixed constructions, e.g. in buildings	
N	F24S 20/61	2	Passive solar heat collectors, e.g. operated without external energy source	
N	F24S 20/62	2	in the form of fences, balustrades or handrails	
N	F24S 20/63	2	in the form of windows	
N	F24S 20/64	2	in the form of floor constructions, grounds or roads	
Q	F24S 20/66	2	in the form of facade constructions, e.g. wall constructions (in the form of shingles or tiles F24S 20/69)	F24S 20/66, F24S20/69
N	F24S 20/67	2	in the form of roof constructions (in the form of shingles or tiles F24S 20/69)	
N	F24S 20/69	2	in the form of shingles or tiles	
Q	F24S 20/70	1	Waterborne solar heat collector modules (for working fluids forming pools or ponds F24S 10/10)	F24S 20/70, F24S 30/00, F24S 30/20, F24S 30/40, F24S 30/42, F24S 30/422, F24S 30/425, F24S 30/428, F24S 30/45, F24S 30/452, F24S 30/455, F24S 30/458, F24S 30/48
N	F24S 20/80	1	Airborne solar heat collector modules, e.g. inflatable structures	
Q	F24S 21/00	0	Solar heat collectors not provided for in groups F24S 10/00-F24S 20/00	F24S21/00, F24S20/00
Q	F24S 23/00	0	Arrangements for concentrating solar-rays for solar heat collectors	F24S 23/00, F24S 50/20
N	F24S 23/10	1	{Prisms}	
N	F24S 23/11	1	{Fluorescent material}	

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N	F24S 23/12	1	{Light guides}	
N	F24S 23/30	1	with lenses	
N	F24S 23/31	2	{having discontinuous faces, e.g. Fresnel lenses}	
N	F24S 23/70	1	with reflectors	
Q	F24S 23/71	2	with parabolic reflective surfaces (with cylindro-parabolic reflective surfaces F24S 23/74)	F24S 23/71, F24S 23/74
N	F24S 23/715	3	{flexible}	
N	F24S 23/72	2	with hemispherical reflective surfaces	
N	F24S 23/74	2	with trough-shaped or cylindro-parabolic reflective surfaces	
N	F24S 23/745	3	{flexible}	
N	F24S 23/75	2	with conical reflective surfaces	
N	F24S 23/77	2	with flat reflective plates	
N	F24S 23/79	2	with spaced and opposed interacting reflective surfaces	
N	F24S 23/80	2	{having discontinuous faces}	
N	F24S 23/81	2	{flexible (F24S 23/715, F24S23/745 take precedence)}	
N	F24S 23/82	2	{characterised by the material or the construction of the reflector}	
N	F24S 2023/83	2	{Other shapes}	
N	F24S 2023/831	3	{corrugated}	
N	F24S 2023/832	3	{curved}	
N	F24S 2023/833	3	{dish-shaped}	
N	F24S 2023/834	3	{trough-shaped}	
N	F24S 2023/835	4	{asymmetric}	
N	F24S 2023/836	3	{spiral}	
N	F24S 2023/837	3	{hyperbolic}	
N	F24S 2023/838	3	{involutes}	
N	F24S 2023/84	2	{Reflective elements inside solar collector casings}	
N	F24S 2023/85	2	{Micro-reflectors}	
N	F24S 2023/86	2	{in the form of reflective coatings}	
N	F24S 2023/87	2	{Reflectors layout}	
N	F24S 2023/872	3	{Assemblies of spaced reflective elements on common support, e.g. Fresnel reflectors}	
N	F24S 2023/874	3	{Reflectors formed by assemblies of adjacent similar reflective facets}	
N	F24S 2023/876	3	{Reflectors formed by assemblies of adjacent reflective elements having different orientation or different features}	
N	F24S 2023/878	3	{Assemblies of spaced reflective elements in the form of grids, e.g. vertical or inclined reflective elements extending over heat absorbing elements}	
Q	F24S 2023/88	2	{Multi reflective traps}	F24S2023/88, F24S2070/62
N	F24S 25/00	0	Arrangement of stationary mountings or supports for solar heat collector modules	

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N	F24S 2025/01	1	{Special support components; Methods of use}	
N	F24S 2025/011	2	{Arrangements for mounting elements inside solar collectors; Spacers inside solar collectors}	
N	F24S 2025/012	2	{Foldable support elements}	
N	F24S 2025/013	2	{Stackable support elements}	
N	F24S 2025/014	2	{Methods for installing support elements}	
N	F24S 2025/015	2	{Supports with play between elements}	
N	F24S 2025/016	2	{Filling or spacing means; Elastic means}	
N	F24S 2025/017	2	{Tensioning means}	
N	F24S 2025/018	2	{Means for preventing movements, e.g. stops}	
N	F24S 2025/019	2	{Means for accommodating irregularities on mounting surface; Tolerance compensation means}	
N	F24S 2025/02	2	{Ballasting means}	
N	F24S 2025/021	2	{Sealing means between support elements and mounting surface}	
N	F24S 2025/022	2	{Sealing means between support elements, e.g. overlapping arrangements; Gap closing arrangements}	
N	F24S 2025/023	2	{Means for preventing theft; Locking means}	
N	F24S 25/10	1	extending in directions away from a supporting surface	
N	F24S 25/11	2	using shaped bodies, e.g. concrete elements, foamed elements or moulded box-like elements	
N	F24S 25/12	2	using posts in combination with upper profiles	
N	F24S 25/13	2	Profile arrangements, e.g. trusses (F24S 25/12 takes precedence)	
N	F24S 25/15	2	using bent plates; using assemblies of plates	
N	F24S 25/16	2	Arrangement of interconnected standing structures; Standing structures having separate supporting portions for adjacent modules	
N	F24S 25/20	1	Peripheral frames for modules	
N	F24S 25/30	1	using elongate rigid mounting elements extending substantially along the supporting surface, e.g. for covering buildings with solar heat collectors (extending in directions away from the supporting surface F24S 25/10; peripheral frames for modules F24S 25/20)	
N	F24S 25/33	2	forming substantially planar assemblies, e.g. of coplanar or stacked profiles	
N	F24S 25/35	3	by means of profiles with a cross-section defining separate supporting portions for adjacent modules	

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N	F24S 25/37	3	forming coplanar grids comprising longitudinal and transversal profiles	
N	F24S 25/40	1	using plate-like mounting elements, e.g. profiled or corrugated plates; Plate-like module frames (extending in directions away from a supporting surface F24S 25/10)	
N	F24S 25/50	1	comprising elongate non-rigid elements, e.g. straps, wires or ropes	
N	F24S 25/60	1	Fixation means, e.g. fasteners, specially adapted for supporting solar heat collector modules	
N	F24S 2025/6001	2	{by using hook and loop-type fasteners}	
N	F24S 2025/6002	2	{by using hooks}	
N	F24S 2025/6003	2	{by clamping}	
N	F24S 2025/6004	2	{by clipping, e.g. by using snap connectors}	
N	F24S 2025/6005	2	{by screwed connection}	
N	F24S 2025/6006	2	{by using threaded elements, e.g. stud bolts}	
N	F24S 2025/6007	2	{by using form-fitting connection means, e.g. tongue and groove}	
N	F24S 2025/6008	2	{by using toothed elements}	
N	F24S 2025/6009	2	{by deforming the material, e.g. by crimping or clinching}	
N	F24S 2025/6010	2	{by bonding, e.g. by using adhesives}	
N	F24S 2025/6011	2	{by welding or brazing}	
N	F24S 2025/6012	2	{Joining different materials}	
N	F24S 2025/6013	3	{Joining glass with non-glass elements}	
N	F24S 25/61	2	for fixing to the ground or to building structures	
N	F24S 25/613	3	in the form of bent strips or assemblies of strips; Hook-like connectors; Connectors to be mounted between building-covering elements	
N	F24S 25/615	3	for fixing to protruding parts of buildings, e.g. to corrugations or to standing seams	
N	F24S 25/617	3	Elements driven into the ground, e.g. anchor-piles; Foundations for supporting elements; Connectors for connecting supporting structures to the ground or to flat horizontal surfaces	
N	F24S 25/63	2	for fixing modules or their peripheral frames to supporting elements	

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N	F24S 25/632	3	Side connectors; Base connectors	
N	F24S 25/634	3	Clamps; Clips	
N	F24S 25/636	4	clamping by screw-threaded elements	
N	F24S 25/65	2	for coupling adjacent supporting elements, e.g. for connecting profiles together	
N	F24S 25/67	2	for coupling adjacent modules or their peripheral frames (for fixing modules or their peripheral frames to supporting elements F24S 25/63)	
N	F24S 25/70	1	with means for adjusting the final position or orientation of supporting elements in relation to each other or to a mounting surface; with means for compensating mounting tolerances	
N	F24S 2025/80	1	{Special profiles}	
N	F24S 2025/801	2	{having hollow parts with closed cross-section}	
N	F24S 2025/802	2	{having circular or oval cross-section}	
N	F24S 2025/803	2	{having a central web, e.g. I-shaped, inverted T- shaped}	
N	F24S 2025/804	2	{U-, C- or O-shaped; Hat profiles}	
N	F24S 2025/805	2	{in the form of corrugated profiles}	
N	F24S 2025/806	2	{having curved portions}	
N	F24S 2025/807	2	{having undercut grooves}	
N	F24S 30/00	0	Arrangements for moving or orienting solar heat collector modules	
N	F24S 2030/10	1	{Special components}	
N	F24S 2030/11	2	{Driving means}	
N	F24S 2030/115	3	{Linear actuators, e.g. pneumatic cylinders}	
N	F24S 2030/12	2	{Coupling means}	
N	F24S 2030/13	2	{Transmissions}	
N	F24S 2030/131	3	{in the form of articulated bars}	
N	F24S 2030/132	4	{in the form of compasses, scissors or parallelograms}	
N	F24S 2030/133	3	{in the form of flexible elements, e.g. belts, chains, ropes}	
N	F24S 2030/134	3	{in the form of gearings or rack-and-pinion transmissions}	
N	F24S 2030/135	3	{in the form of threaded elements}	
N	F24S 2030/136	3	{for moving several solar collectors by common transmission elements}	
N	F24S 2030/137	3	{for deriving one movement from another one, e.g. for deriving elevation movement from azimuth movement}	
N	F24S 2030/14	2	{Movement guiding means}	
N	F24S 2030/145	3	{Tracks}	
N	F24S 2030/15	2	{Bearings}	
N	F24S 2030/16	2	{Hinged elements; Pin connections}	
N	F24S 2030/17	2	{Spherical joints}	
N	F24S 2030/18	2	{Load balancing means, e.g. use of counter-weights}	

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N	F24S 2030/19	2	{Movement dampening means; Braking means}	
Q	F24S 30/20	1	for linear movement	F24S 30/20, F24S 30/00
N	F24S 30/40	1	for rotary movement	
N	F24S 30/42	2	with only one rotation axis	
N	F24S 30/422	3	Vertical axis	
N	F24S 30/425	3	Horizontal axis	
N	F24S 30/428	3	with inclined axis	
N	F24S 30/45	2	with two rotation axes	
N	F24S 30/452	3	Vertical primary axis	
N	F24S 30/455	3	Horizontal primary axis	
N	F24S 30/458	3	with inclined primary axis	
N	F24S 30/48	2	with three or more rotation axes or with multiple degrees of freedom	
Q	F24S 40/00	0	Safety or protection arrangements of solar heat collectors; Preventing malfunction of solar heat collectors (control arrangements F24S 50/00)	F24S40/00, F24S40/90
N	F24S 40/10	1	Protective covers or shrouds; Closure members, e.g. lids (transparent coverings F24S 80/50)	
N	F24S 40/20	1	Cleaning; Removing snow	
N	F24S 40/40	1	Preventing corrosion; Protecting against dirt or contamination	
Q	F24S 40/42	2	Preventing condensation inside solar modules (by venting F24S 40/53)	F24S 40/42, F24S 40/53
N	F24S 40/44	2	Draining rainwater or condensation	
N	F24S 40/46	2	Maintaining vacuum, e.g. by using getters	
N	F24S 40/48	2	Deaerating or degassing the working fluid	
N	F24S 40/50	1	Preventing overheating or overpressure (by draining the working fluid F24S 40/60)	
N	F24S 40/52	2	by modifying the heat collection, e.g. by defocusing or by changing the position of heat-receiving elements	
N	F24S 40/53	2	by venting solar heat collector enclosures	
N	F24S 40/55	2	Arrangements for cooling, e.g. by using external heat dissipating means or internal cooling circuits (by venting F24S 40/53)	
N	F24S 40/57	2	Preventing overpressure in solar collector enclosures (by venting F24S 40/53)	
N	F24S 40/58	2	Preventing overpressure in working fluid circuits	
N	F24S 40/60	1	Arrangements for draining the working fluid	
N	F24S 40/70	1	Preventing freezing (arrangements for draining the working fluid F24S 40/60)	
N	F24S 40/80	1	Accommodating differential expansion of solar collector elements	
N	F24S 40/85	2	{Arrangements for protecting solar collectors against adverse weather conditions (F24S 40/10 takes precedence)}	

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N	F24S 40/90	1	Arrangements for testing solar heat collectors	
N	F24S 50/00	0	Arrangements for controlling solar heat collectors	
N	F24S 50/20	1	for tracking	
N	F24S 2050/25	2	{ Calibration means; Methods for initial positioning of solar concentrators or solar receivers }	
N	F24S 50/40	1	responsive to temperature	
N	F24S 50/60	1	responsive to wind	
N	F24S 50/80	1	for controlling collection or absorption of solar radiation	
Q	F24S 60/00	0	Arrangements for storing heat collected by solar heat collectors (working fluids forming pools or ponds F24S 10/10)	F24S 60/00, F24S60/10, F24S60/20
N	F24S 60/10	1	using latent heat	
N	F24S 60/20	1	using chemical reactions, e.g. thermochemical reactions or isomerisation reactions	
Q	F24S 60/30	1	storing heat in liquids	F24S 60/30, F24S60/10, F24S60/20
N	F24S 70/00	0	Details of absorbing elements	
N	F24S 70/10	1	characterised by the absorbing material (absorbing coatings or surface treatment for increasing absorption F24S 70/20)	
N	F24S 70/12	2	made of metallic material	
N	F24S 70/14	2	made of plastics	
N	F24S 70/16	2	made of ceramic; made of concrete; made of natural stone	
Q	F24S 70/20	1	characterised by absorbing coatings; characterised by surface treatment for increasing absorption	F24S 70/20, F24S 70/225
N	F24S 70/225	2	for spectrally selective absorption	
Q	F24S 70/25	2	Coatings made of metallic material	F24S 70/25, F24S 70/225
Q	F24S 70/275	2	Coatings made of plastics	F24S 70/275, F24S 70/225
N	F24S 70/30	1	Auxiliary coatings, e.g. anti-reflective coatings	
N	F24S 70/60	1	characterised by the structure or construction (absorbing coatings or surface treatment for increasing absorption F24S 70/20; auxiliary coatings F24S 70/30)	
N	F24S 2070/62	2	{ Heat traps }	
N	F24S 70/65	2	Combinations of two or more absorbing elements	
Q	F24S 80/00	0	Details, accessories or component parts of solar heat collectors not provided for in groups F24S 10/00-F24S 70/00	F24S80/00, F24S70/00
N	F24S 2080/01	1	{ Selection of particular materials }	
N	F24S 2080/011	2	{ Ceramics }	
N	F24S 2080/012	2	{ Concrete }	
N	F24S 2080/013	2	{ Foams }	
N	F24S 2080/014	2	{ Carbone, e.g. graphite }	

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N	F24S 2080/015	2	{Plastics}	
N	F24S 2080/016	2	{Textiles; Fabrics}	
N	F24S 2080/017	2	{Natural materials, e.g. wood}	
N	F24S 2080/018	2	{Recycled materials}	
N	F24S 2080/03	1	{Arrangements for heat transfer optimization}	
N	F24S 2080/05	2	{Flow guiding means; Inserts inside conduits}	
N	F24S 2080/07	2	{Arrangements for one-way heat transfer, e.g. thermal diodes}	
N	F24S 2080/09	1	{Arrangements for reinforcement of solar collector elements}	
N	F24S 80/10	1	Materials for heat-exchange conduits	
N	F24S 80/20	1	Working fluids specially adapted for solar heat collectors	
N	F24S 80/30	1	Arrangements for connecting the fluid circuits of solar collectors with each other or with other components, e.g. pipe connections; Fluid distributing means, e.g. headers	
N	F24S 80/40	1	Casings	
N	F24S 80/45	2	characterised by the material	
N	F24S 80/453	3	made of metallic material	
N	F24S 80/457	3	made of plastics	
Q	F24S 80/50	1	Elements for transmitting incoming solar rays and preventing outgoing heat radiation; Transparent coverings	F24S 80/50, F24S 80/56, F24S 80/58
N	F24S 2080/501	2	{Special shape}	
N	F24S 2080/502	3	{in the form of multiple covering elements}	
N	F24S 2080/503	3	{in the form of curved covering elements}	
Q	F24S 80/52	2	characterised by the material (for preventing heat loss F24S 80/56)	F24S 80/52, F24S 80/56, F24S 80/58
Q	F24S 80/525	3	made of plastics	F24S 80/525, F24S 80/56, F24S 80/58
Q	F24S 80/54	2	using evacuated elements	F24S 80/54, F24S 80/56, F24S 80/58
N	F24S 80/56	2	characterised by means for preventing heat loss	
N	F24S 80/58	2	characterised by their mountings or fixing means	
N	F24S 80/60	1	Thermal insulation (transparent coverings F24S 80/50)	
N	F24S 80/65	2	characterised by the material	
N	F24S 80/70	1	Sealing means	
N	F24S 90/00	0	Solar heat systems not otherwise provided for	
Q	F24S 90/10	1	using thermosiphonic circulation	F24S90/10, F24S10/90, F24S10/95
N	F24S 2201/00	0	Prediction; Simulation	

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SUBCLASS F24T - GEOTHERMAL COLLECTORS; GEOTHERMAL SYSTEMS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
N	F24T	subclass	GEOTHERMAL COLLECTORS; GEOTHERMAL SYSTEMS	
Q	F24T 10/00	0	Geothermal collectors	F24T 10/00, F24T10/10, F24T10/30, F24T10/40, F24T50/00
Q	F24T 10/10	1	with circulation of working fluids through underground channels, the working fluids not coming into direct contact with the ground	F24T10/10, F24T10/30, F24T10/40
N	F24T 10/13	2	using tube assemblies suitable for insertion into boreholes in the ground, e.g. geothermal probes	
N	F24T 10/15	3	using bent tubes; using tubes assembled with connectors or with return headers	
N	F24T 10/17	3	using tubes closed at one end, i.e. return-type tubes	
N	F24T 10/20	1	using underground water as working fluid; using working fluid injected directly into the ground, e.g. using injection wells and recovery wells	
Q	F24T 10/30	1	using underground reservoirs for accumulating working fluids or intermediate fluids	F24T10/30, F24T10/40
N	F24T 10/40	1	operated without external energy sources, e.g. using thermosiphonic circulation or heat pipes	
N	F24T 2010/50	1	{Component parts, details or accessories}	
N	F24T 2010/53	2	{Methods for installation}	
N	F24T 2010/56	2	{Control arrangements}	
N	F24T 50/00	0	Geothermal systems (for producing mechanical power from geothermal energy {F03G7/04})	
N	F24T 2201/00	0	Prediction; Simulation	

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SUBCLASS F24V - COLLECTION, PRODUCTION OR USE OF HEAT NOT OTHERWISE PROVIDED FOR

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in curly brackets**</u>	<u>Transferred to#</u>
N	F24V	subclass	COLLECTION, PRODUCTION OR USE OF HEAT NOT OTHERWISE PROVIDED FOR	
N	F24V 30/00	0	Apparatus or devices using heat produced by exothermal chemical reactions other than combustion	
N	F24V 40/00	0	Production or use of heat resulting from internal friction of moving fluids or from friction between fluids and moving bodies	
N	F24V 40/10	1	the fluid passing through restriction means	
N	F24V 50/00	0	Use of heat from natural sources, e.g. from the sea	
N	F24V 99/00	0	Subject matter not provided for in other main groups of this subclass	

SUBCLASS F28D - HEAT-EXCHANGE APPARATUS, NOT PROVIDED FOR IN ANOTHER SUBCLASS, IN WHICH THE HEAT-EXCHANGE MEDIA DO NOT COME INTO DIRECT CONTACT (fluid heaters having heat generating means and heat transferring means F24H; furnaces F27; details of heat-exchange apparatus of general)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in curly brackets**</u>	<u>Transferred to#</u>
M	F28D 20/00	0	Heat storage plants or apparatus in general; Regenerative heat-exchange apparatus not covered by groups F28D17/00 or F28D19/00	

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SUBCLASS H02S - GENERATION OF ELECTRIC POWER BY CONVERSION OF INFRA-RED RADIATION, VISIBLE LIGHT OR ULTRAVIOLET LIGHT, e.g. USING PHOTOVOLTAIC [PV] MODULES (light sensitive inorganic semiconductor devices H01L 31/00; thermoelectric devices H01L 35/00; pyroelectric devices H01L 37/00; light sensitive organic semiconductor devices H01L 51/00; obtaining electrical energy from radioactive sources G21H 1/12; solar heat collectors F24J 2/00)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in{curly brackets}**</u>	<u>Transferred to[#]</u>
M	H02S	SUBCLASS	GENERATION OF ELECTRIC POWER BY CONVERSION OF INFRA-RED RADIATION, VISIBLE LIGHT OR ULTRAVIOLET LIGHT, E.G. USING PHOTOVOLTAIC [PV] MODULES (obtaining electrical energy from radioactive sources G21H 1/12; light sensitive inorganic semiconductor devices H01L 31/00; thermoelectric devices H01L 35/00; pyroelectric devices H01L 37/00; light sensitive organic semiconductor devices H01L 51/42)	
U	H02S 20/23	3	pecially adapted for roof structures	

*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; E= 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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.
- #“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.

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- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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B. New, Modified or Deleted Warning notice(s)

SUBCLASS E04D - ROOF COVERINGS; SKY-LIGHTS; GUTTERS; ROOF-WORKING TOOLS (coverings of outer walls by plaster or other porous material E04F13/00)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	E04D	The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups: <ul style="list-style-type: none"> - E04D3/3645 covered by E04D3/363 - E04D3/367 covered by E04D3/364 - E04D13/18 covered by F24J2/00, H02S20/23 	The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups: <ul style="list-style-type: none"> - E04D3/3645 covered by E04D3/363 - E04D3/367 covered by E04D3/364 - E04D13/18 covered by F24S20/67, H02S20/23

SUBCLASS F24S - SOLAR HEAT COLLECTORS; SOLAR HEAT SYSTEMS (for producing mechanical power from solar energy F03G 6/00)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24S 10/80		Group F24S 10/80 is impacted by reclassification into group F24S 10/95. Groups F24S 10/80 and F24S 10/95 should be considered in order to perform a complete search.
N	F24S 10/90		Group F24S 10/90 is incomplete pending reclassification of documents from group F24S 90/10. Group F24S 10/90 is also impacted by reclassification into groups F24S 10/95 and F24S 90/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24S 10/95		Group F24S 10/95 is incomplete pending reclassification of documents from groups F24S10/80, F24S 10/90 and F24S 90/10. Groups F24S10/80, F24S 10/90, F24S 90/10, and F24S 10/95 should be considered in order to perform a complete search.
N	F24S 20/00		Group F24S 20/00 is incomplete pending reclassification of documents from group F24S 21/00. Groups F24S 20/00 and F24S 21/00 should be

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			considered in order to perform a complete search.
N	F24S 20/30		Group F24S 20/30 is impacted by reclassification into group F24S 50/20. Groups F24S 20/30 and F24S 50/20 should be considered in order to perform a complete search.
N	F24S 20/50		Group F24S 20/50 is impacted by reclassification into group F24S 20/55. Groups F24S 20/50 and F24S 20/55 should be considered in order to perform a complete search.
N	F24S 20/55		Group F24S 20/55 is incomplete pending reclassification of documents from group F24S 20/50. Groups F24S 20/50 and F24S 20/55 should be considered in order to perform a complete search.
N	F24S 20/66		Group F24S 20/66 is impacted by reclassification into group F24S 20/69. Groups F24S 20/66 and F24S 20/69 should be considered in order to perform a complete search.
N	F24S 20/69		Group F24S 20/69 is incomplete pending reclassification of documents from group F24S 20/66. Groups F24S 20/66 and F24S 20/69 should be considered in order to perform a complete search.
N	F24S 20/70		Group F24S 20/70 is impacted by reclassification into groups F24S 30/00, F24S 30/20, F24S 30/40, F24S 30/42, F24S 30/422, F24S 30/425, F24S 30/428, F24S 30/45, F24S 30/452, F24S 30/455, F24S 30/458, and F24S 30/48. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24S 21/00		Group F24S 21/00 is impacted by reclassification into group F24S 20/00. Groups F24S 21/00 and F24S 20/00 should be considered in order to perform a complete search.
N	F24S 23/00		Group F24S 23/00 is impacted by reclassification into group F24S 50/20. Groups F24S 23/00 and F24S 50/20 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24S 23/71		Group F24S 23/71 is impacted by reclassification into group F24S 23/74. Groups F24S 23/71 and F24S 23/74 should be considered in order to perform a complete search.
N	F24S 23/74		Group F24S 23/74 is incomplete pending reclassification of documents from group F24S 23/71. Groups F24S 23/71 and F24S 23/74 should be considered in order to perform a complete search.
N	F24S 2023/88		Group F24S 2023/88 is impacted by reclassification into group F24S 2070/62. Groups F24S 2023/88 and F24S 2070/62 should be considered in order to perform a complete search.
N	F24S 30/00		Group F24S 30/00 is incomplete pending reclassification of documents from groups F24S 20/70 and F24S 30/20. Groups F24S 20/70, F24S 30/20, and F24S 30/00 should be considered in order to perform a complete search.
N	F24S 30/20		Group F24S 30/20 is incomplete pending reclassification of documents from group F24S 20/70. Group F24S 30/20 is also impacted by reclassification into group F24S 30/00. Groups F24S 20/70, F24S 30/20, and F24S 30/00 should be considered in order to perform a complete search
N	F24S 30/40		Group F24S 30/40 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/40 should be considered in order to perform a complete search.
N	F24S 30/42		Group F24S 30/42 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/42 should be considered in order to perform a complete search.
N	F24S 30/422		Group F24S 30/422 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/422 should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24S 30/425		Group F24S 30/425 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/425 should be considered in order to perform a complete search.
N	F24S 30/428		Group F24S 30/428 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/428 should be considered in order to perform a complete search.
N	F24S 30/45		Group F24S 30/45 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/45 should be considered in order to perform a complete search.
N	F24S 30/452		Group F24S 30/452 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/452 should be considered in order to perform a complete search.
N	F24S 30/455		Group F24S 30/455 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/455 should be considered in order to perform a complete search.
N	F24S 30/458		Group F24S 30/458 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/458 should be considered in order to perform a complete search.
N	F24S 30/48		Group F24S 30/48 is incomplete pending reclassification of documents from group F24S 20/70. Groups F24S 20/70 and F24S 30/48 should be considered in order to perform a complete search.
N	F24S 40/00		Group F24S 40/00 is impacted by reclassification into group F24S 40/90. Groups F24S 40/00 and F24S 40/90 should be considered in order to perform a complete search.
N	F24S 40/42		Group F24S 40/42 is impacted by reclassification into group F24S 40/53. Groups F24S 40/42 and

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			F24S 40/53 should be considered in order to perform a complete search.
N	F24S 40/53		Group F24S 40/53 is incomplete pending reclassification of documents from group F24S 40/42. Groups F24S 40/42 and F24S 40/53 should be considered in order to perform a complete search.
N	F24S 40/90		Group F24S 40/90 is incomplete pending reclassification of documents from group F24S 40/00. Groups F24S 40/00 and F24S 40/90 should be considered in order to perform a complete search.
N	F24S 50/20		Group F24S 50/20 is incomplete pending reclassification of documents from groups F24S 20/30 and F24S 23/00. Groups F24S 20/30, F24S 23/00 and F24S 50/20 should be considered in order to perform a complete search.
N	F24S 60/00		Group F24S 60/00 is impacted by reclassification into groups F24S 60/10 and F24S 60/20. Groups F24S 60/00, F24S 60/10, and F24S 60/20 should be considered in order to perform a complete search.
N	F24S 60/10		Group F24S 60/10 is incomplete pending reclassification of documents from groups F24S 60/00 and F24S 60/30. Groups F24S 60/00, F24S 60/30, and F24S 60/10 should be considered in order to perform a complete search.
N	F24S 60/20		Group F24S 60/20 is incomplete pending reclassification of documents from groups F24S 60/00 and F24S 60/30. Groups F24S 60/00, F24S 60/30, and F24S 60/20 should be considered in order to perform a complete search.
N	F24S 60/30		Group F24S 60/30 is impacted by reclassification into groups F24S 60/10 and F24S 60/20. Groups F24S 60/30, F24S 60/10, and F24S 60/20 should be considered in order to perform a complete search.
N	F24S 70/00		Group F24S 70/00 is incomplete pending reclassification of documents from group F24S 80/00. Groups F24S 80/00 and F24S 70/00 should be

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			considered in order to perform a complete search.
N	F24S 70/20		Group F24S 70/20 is impacted by reclassification into group F24S 70/225. Groups F24S 70/20 and F24S 70/225 should be considered in order to perform a complete search.
N	F24S 70/225		Group F24S 70/225 is incomplete pending reclassification of documents from groups F24S 70/20, F24S 70/25, and F24S 70/275. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24S 70/25		Group F24S 70/25 is impacted by reclassification into group F24S 70/225. Groups F24S 70/25 and F24S 70/225 should be considered in order to perform a complete search.
N	F24S 70/275		Group F24S 70/275 is impacted by reclassification into group F24S 70/225. Groups F24S 70/275 and F24S 70/225 should be considered in order to perform a complete search.
N	F24S 2070/62		Group F24S 2070/62 is incomplete pending reclassification of documents from group F24S 2023/88. Groups F24S 2023/88 and F24S 2070/62 should be considered in order to perform a complete search.
N	F24S 80/00		Group F24S 80/00 is impacted by reclassification into group F24S 70/00. Groups F24S 80/00 and F24S 70/00 should be considered in order to perform a complete search.
N	F24S 80/50		Group F24S 80/50 is impacted by reclassification into groups F24S 80/56 and F24S 80/58. Groups F24S 80/50, F24S 80/56, and F24S 80/58 should be considered in order to perform a complete search.
N	F24S 80/52		Group F24S 80/52 is impacted by reclassification into groups F24S 80/56 and F24S 80/58. Groups F24S 80/52, F24S 80/56, and F24S 80/58 should be considered in order to perform a complete search.
N	F24S 80/525		Group F24S 80/525 is impacted by reclassification into groups F24S 80/56 and F24S 80/58. Groups F24S 80/525, F24S 80/56, and

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			F24S 80/58 should be considered in order to perform a complete search.
N	F24S 80/54		Group F24S 80/54 is impacted by reclassification into groups F24S 80/56 and F24S 80/58. Groups F24S 80/54, F24S 80/56, and F24S 80/58 should be considered in order to perform a complete search.
N	F24S 80/56		Group F24S 80/56 is incomplete pending reclassification of documents from groups F24S 80/50, F24S 80/52, F24S 80/525, and F24S 80/54. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24S 80/58		Group F24S 80/58 is incomplete pending reclassification of documents from groups F24S 80/50, F24S 80/52, F24S 80/525, and F24S 80/54. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24S 90/10		Group F24S 90/10 is incomplete pending reclassification of documents from group F24S 10/90. Group F24S 90/10 is also impacted by reclassification into groups F24S 10/90 and F24S 10/95. All groups listed in this Warning should be considered in order to perform a complete search.

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SUBCLASS F24T - GEOTHERMAL COLLECTORS; GEOTHERMAL SYSTEMS

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F24T 10/00		Group F24T 10/00 is impacted by reclassification into groups F24T 10/10, F24T 10/30, F24T 10/40, and F24T 50/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24T 10/10		Group F24T 10/10 is incomplete pending reclassification of documents from group F24T 10/00. Group F24T 10/10 is also impacted by reclassification into groups F24T 10/30 and F24T 10/40. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24T 10/30		Group F24T 10/30 is incomplete pending reclassification of documents from groups F24T 10/00 and F24T 10/10. Group F24T 10/30 is also impacted by reclassification into group F24T 10/40. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24T 10/40		Group F24T 10/40 is incomplete pending reclassification of documents from groups F24T 10/00, F24T 10/10, and F24T 10/30. All groups listed in this Warning should be considered in order to perform a complete search.
N	F24T 50/00		Group F24T 50/00 is incomplete pending reclassification of documents from group F24T 10/00. Groups F24T 10/00 and F24T 50/00 should be considered in order to perform a complete search.

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SUBCLASS H02S - GENERATION OF ELECTRIC POWER BY CONVERSION OF INFRA-RED RADIATION, VISIBLE LIGHT OR ULTRAVIOLET LIGHT, e.g. USING PHOTOVOLTAIC [PV] MODULES (light sensitive inorganic semiconductor devices H01L31/00; thermoelectric devices H01L35/00; pyroelectric devices H01L37/00; light sensitive organic semiconductor devices H01L51/00; obtaining electrical energy from radioactive sources G21H1/12; solar heat collectors F24J2/00)

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	H02S20/00	Groups H02S20/10 - H02S20/32 are incomplete pending reclassification of documents from groups H02S20/00, F24J2/00, F24J2/38, and H01L31/048.Until reclassification is complete, groups H02S20/00, F24J2/00, F24J2/38, and H01L31/048 should be considered in order to perform a complete search.	Groups H02S20/10 - H02S20/32 are incomplete pending reclassification of documents from groups H02S20/00, F24S21/00, F24S50/20, and H01L31/048.Until reclassification is complete, groups H02S20/00, F24S21/00, F24S50/20, and H01L31/048 should be considered in order to perform a complete search.
M	H02S40/00	Groups H02S40/10 - H02S40/44 are incomplete pending reclassification of documents from groups H02S40/00, F24J2/00, H01L31/0232, H01L31/05 - H01L31/055.Until reclassification is complete, groups H02S40/00, F24J2/00, H01L31/0232 and H01L31/05 - H01L31/055 should be considered in order to perform a complete search.	Groups H02S40/10 - H02S40/44 are incomplete pending reclassification of documents from groups H02S40/00, F24S21/00, H01L31/0232, H01L31/05 - H01L31/055.Until reclassification is complete, groups H02S40/00, F24S21/00, H01L31/0232 and H01L31/05 - H01L31/055 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.

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C. New, Modified or Deleted Note(s)

SUBCLASS F24J - PRODUCING OR USE OF HEAT NOT OTHERWISE PROVIDED FOR (materials therefor C09K5/00; engines or other mechanisms for producing mechanical power from heat, see the relevant classes, e.g. F03G for using natural heat)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	F24J2/00	Supporting structures also intended for use with photovoltaic modules should further be classified in the relevant groups of subclass H02S.	delete

SUBCLASS F24S - SOLAR HEAT COLLECTORS; SOLAR HEAT SYSTEMS (for producing mechanical power from solar energy F03G 6/00)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	F24S		<p>In this subclass, the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> • “solar heat collector modules”, often referred to simply as “modules”, covers <ul style="list-style-type: none"> a. whole solar heat collectors; b. elements of solar heat collectors, e.g. reflectors, lenses or heat storage elements. • “absorbing elements” covers elements for absorbing solar-rays and converting it into heat. • “solar heat systems” covers systems having solar heat collectors as their components and using the collected heat.
N	F24S 25/00		Arrangements also intended for use with photovoltaic modules should further be classified in the relevant groups of subclass H02S.
N	F24S 30/00		Arrangements also intended for use with photovoltaic modules should further be classified in the relevant groups of subclass H02S.

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SUBCLASS G05D - SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES
 (for continuous casting of metals B22D11/16 ; valves per se F16K; sensing non-electric variables, see the relevant subclasses of G01; for regulating electric or magnetic variables G05F)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G05D	3. Places related to G05D3/00 A43D119/00 Footwear manufacture B21K31/00 Tool carriers in forging or pressing B23B39/26 Pattern-controlled boring or drilling tools B23D1/30, B23D3/06, B23D5/04 Planing or slotting machines controlled by copying device B23H7/18 Electrode to workpiece spacing in electric discharge and electrochemical machining B23K26/02 Workpiece in laser welding or cutting B23K37/04 Workpiece in welding B23K37/06 Molten metal in welding B23Q5/20 Spindles in machine tools B23Q15/00, B23Q16/00 Tool or work position in machine tools B23Q35/00 Tools controlled by pattern or master model B24B17/00 Grinding controlled by patterns, drawings, magnetic tape or the like B24B47/22 Starting position in grinding B30B15/24 Actuating members in presses B62D55/116 Chassis of tracked vehicles B65H23/18 Web-advancing mechanisms E02F3/43 Dippers or buckets in dredgers F15B9/00 Fluid-pressure servomotors with follow-up action F24J2/38 Tracking of solar heat collectors G03F9/00 Photomechanical production of patterned or textured surfaces G11B5/588 Rotating heads in information storage systems	3. Places related to G05D3/00 A43D119/00 Footwear manufacture B21K31/00 Tool carriers in forging or pressing B23B39/26 Pattern-controlled boring or drilling tools B23D1/30, B23D3/06, B23D5/04 Planning or slotting machines controlled by copying device B23H7/18 Electrode to workpiece spacing in electric discharge and electrochemical machining B23K26/02 Workpiece in laser welding or cutting B23K37/04 Workpiece in welding B23K37/06 Molten metal in welding B23Q5/20 Spindles in machine tools B23Q15/00, B23Q16/00 Tool or work position in machine tools B23Q35/00 Tools controlled by pattern or master model B24B17/00 Grinding controlled by patterns, drawings, magnetic tape or the like B24B47/22 Starting position in grinding B30B15/24 Actuating members in presses B62D55/116 Chassis of tracked vehicles B65H23/18 Web-advancing mechanisms E02F3/43 Dippers or buckets in dredgers F15B9/00 Fluid-pressure servomotors with follow-up action F24S 50/20 Tracking of solar heat collectors G03F9/00 Photomechanical production of patterned or textured surfaces G11B5/588 Rotating heads in information storage systems

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		G21C7/12 Movement of control elements in nuclearreactors	G21C7/12 Movement of control elements in nuclear reactors

SUBCLASS H02S - GENERATION OF ELECTRIC POWER BY CONVERSION OF INFRA-RED RADIATION, VISIBLE LIGHT OR ULTRAVIOLET LIGHT, e.g. USING PHOTOVOLTAIC [PV] MODULES (light sensitive inorganic semiconductor devices H01L31/00; thermoelectric devices H01L35/00; pyroelectric devices H01L37/00; light sensitive organic semiconductor devices H01L51/00; obtaining electrical energy from radioactive sources G21H1/12; solar heat collectors F24J2/00)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H02S 20/00	Supporting structures also intended for use with solar heat collectors should also be classified in groups F24J2/38 or F24J2/52	Supporting structures also intended for use with solar heat collectors should also be classified in groups F24S 25/00-F24S 30/00 or F24S 50/20

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

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

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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>
F22B 1/00	Informative references	Solar power plants F03G 7/02	Action : modify Solar power plants F03G 6/02
F24H 1/00	Informative references	Solar heating of swimming pools F24J 2/423	action: modify Solar heating of swimming pools F24S 20/02
F24H 1/00	Informative references		action: add Storing heat collected by solar heat collectors F24S 60/30
F24H 1/00	Informative references		Action: add Storing geothermal heat F24T 10/30
F24J			Action: delete the whole definition
F24J1/00			Action: delete the whole definition
F24J2/00			Action: delete the whole definition
F24J2/38			Action: delete the whole definition
F24J3/00			Action: delete the whole definition
F28D20/00	Limiting references	Arrangement of heat accumulators for vehicle heating, cooling or ventilating systems B60H 1/00; Heat storage materials C09K 5/00, C09K 5/06; Accumulating of heat within building walls E04B 1/74; Gas-turbine plants having means for storing energy, e.g. for meeting peak loads F02C 6/14; Radiant bodies for radiation heaters F24B 15/24; Heat storage elements for stoves or ranges F24B 15/34; Heating systems using heat storage with heat storage mass F24D 11/00, F24D 11/02; Self contained storage heating units F24D 15/02; Storage heaters F24H 7/00; Solar collectors having heat storage mass F24J 2/34; Devices using cold-storage bodies F25D 3/00	action: delete whole table
F28D20/00	Informative references		Action: add Arrangement of heat accumulators for vehicle heating, cooling or ventilating systems B60H 1/00 Heat storage materials C09K 5/00, C09K 5/06 Accumulating of heat within building walls E04B 1/74 Gas-turbine plants having means for storing energy, e.g. for meeting peak loads F02C 6/14

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			Radiant bodies for radiation heaters F24C15/24 Heat storage elements for stoves or ranges F24C15/34 Heating systems using heat storage with heat storage mass F24D 11/00, F24D 11/02 Self contained storage heating units F24D 15/02 Storage heaters F24H 7/00 Solar collectors having heat storage mass F24S 60/00 Devices using cold-storage bodies F25D 3/00
H02S	Limiting references	Solar heat collectors F24J 2/00	Action: Delete
H02S	Informative references		Action: add Solar heat collectors F24S

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.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	F24J 1/00	<administrative transfer to F24V 30/00>
D	F24J 2/00	<administrative transfer to F24S 21/00>
D	F24J 2/0007	<administrative transfer to F24S 20/61>
D	F24J 2/0015	<administrative transfer to F24S 20/25>
D	F24J 2/0023	<administrative transfer to F24S 20/40>
D	F24J 2002/003	<administrative transfer to F24S 2023/88>
D	F24J 2002/0038	<administrative transfer to F24S 2020/10>
D	F24J 2002/0046	<administrative transfer to F24S 2020/11>
D	F24J 2002/0053	<administrative transfer to F24S 2020/12>
D	F24J 2002/0061	<administrative transfer to F24S 2020/13>
D	F24J 2002/0069	<administrative transfer to F24S 2020/14>
D	F24J 2002/0076	<administrative transfer to F24S 2020/15>
D	F24J 2002/0084	<administrative transfer to F24S 2020/16>
D	F24J 2002/0092	<administrative transfer to F24S 2020/17>
D	F24J 2/02	<administrative transfer to F24S 20/30>
D	F24J 2/04	<administrative transfer to F24S 10/00>
D	F24J 2002/0405	<administrative transfer to F24S 2020/18>
D	F24J 2002/0411	<administrative transfer to F24S 2020/183>
D	F24J 2002/0416	<administrative transfer to F24S 2020/186>
D	F24J 2/0422	<administrative transfer to F24S 20/60>
D	F24J 2/0427	<administrative transfer to F24S 20/62>
D	F24J 2/0433	<administrative transfer to F24S 20/63>
D	F24J 2/0438	<administrative transfer to F24S 20/64>
D	F24J 2/0444	<administrative transfer to F24S 20/66>
D	F24J 2/045	<administrative transfer to F24S 20/67>
D	F24J 2/0455	<administrative transfer to F24S 20/69>
D	F24J 2/0461	<administrative transfer to F24S 10/10>
D	F24J 2/0466	<administrative transfer to F24S 10/13>
D	F24J 2/0472	<administrative transfer to F24S 10/17>
D	F24J 2/0477	<administrative transfer to F24S 10/20>
D	F24J 2/0483	<administrative transfer to F24S 10/25>
D	F24J 2/0488	<administrative transfer to F24S 70/60>
D	F24J 2/0494	<administrative transfer to F24S 70/65>
D	F24J 2/05	<administrative transfer to F24S 10/40>
D	F24J 2/055	<administrative transfer to F24S 10/45>
D	F24J 2/06	<administrative transfer to F24S 23/00>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	F24J 2/062	<administrative transfer to F24S 23/10>
D	F24J 2/065	<administrative transfer to F24S 23/11>
D	F24J 2/067	<administrative transfer to F24S 23/12>
D	F24J 2/07	<administrative transfer to F24S 20/20>
D	F24J 2002/075	<administrative transfer to F24S 2020/23>
D	F24J 2/08	<administrative transfer to F24S 23/30>
D	F24J 2/085	<administrative transfer to F24S 23/31>
D	F24J 2/10	<administrative transfer to F24S 23/70>
D	F24J 2002/1004	<administrative transfer to F24S 2023/83>
D	F24J 2002/1009	<administrative transfer to F24S 2023/831>
D	F24J 2002/1014	<administrative transfer to F24S 2023/832>
D	F24J 2002/1019	<administrative transfer to F24S 2023/833>
D	F24J 2002/1023	<administrative transfer to F24S 2023/834>
D	F24J 2002/1028	<administrative transfer to F24S 2023/835>
D	F24J 2002/1033	<administrative transfer to F24S 2023/836>
D	F24J 2002/1038	<administrative transfer to F24S 2023/837>
D	F24J 2002/1042	<administrative transfer to F24S 2023/838>
D	F24J 2/1047	<administrative transfer to F24S 23/80>
D	F24J 2/1052	<administrative transfer to F24S 23/81>
D	F24J 2/1057	<administrative transfer to F24S 23/82>
D	F24J 2002/1061	<administrative transfer to F24S 2023/84>
D	F24J 2002/1066	<administrative transfer to F24S 2023/85>
D	F24J 2002/1071	<administrative transfer to F24S 2023/86>
D	F24J 2002/1076	<administrative transfer to F24S 2023/87>
D	F24J 2002/108	<administrative transfer to F24S 2023/872>
D	F24J 2002/1085	<administrative transfer to F24S 2023/874>
D	F24J 2002/109	<administrative transfer to F24S 2023/876>
D	F24J 2002/1095	<administrative transfer to F24S 2023/878>
D	F24J 2/12	<administrative transfer to F24S 23/71>
D	F24J 2/125	<administrative transfer to F24S 23/715>
D	F24J 2/13	<administrative transfer to F24S 23/72>
D	F24J 2/14	<administrative transfer to F24S 23/74>
D	F24J 2/145	<administrative transfer to F24S 23/745>
D	F24J 2/15	<administrative transfer to F24S 23/75>
D	F24J 2/16	<administrative transfer to F24S 23/77>
D	F24J 2/18	<administrative transfer to F24S 23/79>
D	F24J 2/20	<administrative transfer to F24S 10/50>
D	F24J 2/201	<administrative transfer to F24S 10/501>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	F24J 2/202	<administrative transfer to F24S 10/502>
D	F24J 2/204	<administrative transfer to F24S 10/503>
D	F24J 2/205	<administrative transfer to F24S 10/504>
D	F24J 2/207	<administrative transfer to F24S 10/505>
D	F24J 2/208	<administrative transfer to F24S 10/506>
D	F24J 2/22	<administrative transfer to F24S 10/55>
D	F24J 2/23	<administrative transfer to F24S 10/60>
D	F24J 2/24	<administrative transfer to F24S 10/70>
D	F24J 2002/241	<administrative transfer to F24S 2010/71>
D	F24J 2/242	<administrative transfer to F24S 10/72>
D	F24J 2/243	<administrative transfer to F24S 10/73>
D	F24J 2/244	<administrative transfer to F24S 10/74>
D	F24J 2/245	<administrative transfer to F24S 10/742>
D	F24J 2/246	<administrative transfer to F24S 10/744>
D	F24J 2/247	<administrative transfer to F24S 10/746>
D	F24J 2/248	<administrative transfer to F24S 10/748>
D	F24J 2/26	<administrative transfer to F24S 10/75>
D	F24J 2002/261	<administrative transfer to F24S 2010/751>
D	F24J 2002/263	<administrative transfer to F24S 2010/752>
D	F24J 2/265	<administrative transfer to F24S 10/753>
D	F24J 2/266	<administrative transfer to F24S 10/754>
D	F24J 2/268	<administrative transfer to F24S 10/755>
D	F24J 2/28	<administrative transfer to F24S 10/80>
D	F24J 2/30	<administrative transfer to F24S 10/30>
D	F24J 2/32	<administrative transfer to F24S 10/90>
D	F24J 2/34	<administrative transfer to F24S 60/00>
D	F24J 2/345	<administrative transfer to F24S 60/30>
D	F24J 2/36	<administrative transfer to F24S 20/50>
D	F24J 2/38	<administrative transfer to F24S 50/20>
D	F24J 2002/385	<administrative transfer to F24S 2050/25>
D	F24J 2/40	<administrative transfer to F24S 50/00>
D	F24J 2/402	<administrative transfer to F24S 50/40>
D	F24J 2/405	<administrative transfer to F24S 50/60>
D	F24J 2/407	<administrative transfer to F24S 50/80>
D	F24J 2/42	<administrative transfer to F24S 90/00>
D	F24J 2/423	<administrative transfer to F24S 20/02>
D	F24J 2/426	<administrative transfer to F24S 20/04>
D	F24J 2/44	<administrative transfer to F24S 90/10>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	F24J 2/46	<administrative transfer to F24S 80/00>
D	F24J 2002/4601	<administrative transfer to F24S 2080/03>
D	F24J 2002/4603	<administrative transfer to F24S 2080/05>
D	F24J 2002/4605	<administrative transfer to F24S 2080/07>
D	F24J 2/4607	<administrative transfer to F24S 40/00>
D	F24J 2/4609	<administrative transfer to F24S 40/10>
D	F24J 2/461	<administrative transfer to F24S 40/20>
D	F24J 2/4612	<administrative transfer to F24S 40/40>
D	F24J 2/4614	<administrative transfer to F24S 40/44>
D	F24J 2/4616	<administrative transfer to F24S 40/46>
D	F24J 2/4618	<administrative transfer to F24S 40/42>
D	F24J 2/462	<administrative transfer to F24S 40/48>
D	F24J 2/4621	<administrative transfer to F24S 40/50>
D	F24J 2/4623	<administrative transfer to F24S 40/52>
D	F24J 2/4625	<administrative transfer to F24S 40/55>
D	F24J 2/4627	<administrative transfer to F24S 40/53>
D	F24J 2/4629	<administrative transfer to F24S 40/57>
D	F24J 2/463	<administrative transfer to F24S 40/58>
D	F24J 2/4632	<administrative transfer to F24S 40/70>
D	F24J 2/4634	<administrative transfer to F24S 40/60>
D	F24J 2/4636	<administrative transfer to F24S 40/80>
D	F24J 2/4638	<administrative transfer to F24S 40/85>
D	F24J 2/464	<administrative transfer to F24S 80/40>
D	F24J 2/4641	<administrative transfer to F24S 80/45>
D	F24J 2/4643	<administrative transfer to F24S 80/457>
D	F24J 2/4645	<administrative transfer to F24S 80/453>
D	F24J 2/4647	<administrative transfer to F24S 80/30>
D	F24J 2/4649	<administrative transfer to F24S 80/20>
D	F24J 2/465	<administrative transfer to F24S 80/70>
D	F24J 2/4652	<administrative transfer to F24S 70/30>
D	F24J 2/4654	<administrative transfer to F24S 80/10>
D	F24J 2002/4656	<administrative transfer to F24S 2080/09>
D	F24J 2002/4658	<administrative transfer to F24S 25/60>
D	F24J 2002/4659	<administrative transfer to F24S 2025/6001>
D	F24J 2002/4661	<administrative transfer to F24S 2025/6002>
D	F24J 2002/4663	<administrative transfer to F24S 2025/6003>
D	F24J 2002/4665	<administrative transfer to F24S 2025/6004>
D	F24J 2002/4667	<administrative transfer to F24S 2025/6005>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	F24J 2002/4669	<administrative transfer to F24S 2025/6006>
D	F24J 2002/467	<administrative transfer to F24S 2025/6007>
D	F24J 2002/4672	<administrative transfer to F24S 2025/6008>
D	F24J 2002/4674	<administrative transfer to F24S 2025/6009>
D	F24J 2002/4676	<administrative transfer to F24S 2025/601>
D	F24J 2002/4678	<administrative transfer to F24S 2025/6011>
D	F24J 2002/4679	<administrative transfer to F24S 2025/6012>
D	F24J 2002/4681	<administrative transfer to F24S 2025/6013>
D	F24J 2002/4683	<administrative transfer to F24S 2080/01>
D	F24J 2002/4685	<administrative transfer to F24S 2080/011>
D	F24J 2002/4687	<administrative transfer to F24S 2080/012>
D	F24J 2002/4689	<administrative transfer to F24S 2080/013>
D	F24J 2002/469	<administrative transfer to F24S 2080/014>
D	F24J 2002/4692	<administrative transfer to F24S 2080/015>
D	F24J 2002/4694	<administrative transfer to F24S 2080/016>
D	F24J 2002/4696	<administrative transfer to F24S 2080/017>
D	F24J 2002/4698	<administrative transfer to F24S 2080/018>
D	F24J 2/48	<administrative transfer to F24S 70/10>
D	F24J 2/481	<administrative transfer to F24S 70/12>
D	F24J 2/482	<administrative transfer to F24S 70/14>
D	F24J 2/484	<administrative transfer to F24S 70/16>
D	F24J 2/485	<administrative transfer to F24S 70/20>
D	F24J 2/487	<administrative transfer to F24S 70/25>
D	F24J 2/488	<administrative transfer to F24S 70/275>
D	F24J 2/50	<administrative transfer to F24S 80/50>
D	F24J 2002/501	<administrative transfer to F24S 2080/501>
D	F24J 2002/502	<administrative transfer to F24S 2080/502>
D	F24J 2002/503	<administrative transfer to F24S 2080/503>
D	F24J 2/505	<administrative transfer to F24S 80/52>
D	F24J 2/506	<administrative transfer to F24S 80/525>
D	F24J 2/507	<administrative transfer to F24S 80/54>
D	F24J 2002/508	<administrative transfer to F24S 80/56>
D	F24J 2/51	<administrative transfer to F24S 80/60>
D	F24J 2/515	<administrative transfer to F24S 80/65>
D	F24J 2/52	<administrative transfer to F24S 25/00>
D	F24J 2/5201	<administrative transfer to F24S 25/00>
D	F24J 2/5203	<administrative transfer to F24S 25/30>
D	F24J 2/5205	<administrative transfer to F24S 25/33>

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D	F24J 2/5207	<administrative transfer to F24S 25/35>
D	F24J 2/5209	<administrative transfer to F24S 25/37>
D	F24J 2/5211	<administrative transfer to F24S 25/20>
D	F24J 2002/5213	<administrative transfer to F24S 2025/80>
D	F24J 2002/5215	<administrative transfer to F24S 2025/801>
D	F24J 2002/5216	<administrative transfer to F24S 2025/802>
D	F24J 2002/5218	<administrative transfer to F24S 2025/803>
D	F24J 2002/522	<administrative transfer to F24S 2025/804>
D	F24J 2002/5222	<administrative transfer to F24S 2025/805>
D	F24J 2002/5224	<administrative transfer to F24S 2025/806>
D	F24J 2002/5226	<administrative transfer to F24S 2025/807>
D	F24J 2/5228	<administrative transfer to F24S 25/40>
D	F24J 2/523	<administrative transfer to F24S 25/10>
D	F24J 2/5232	<administrative transfer to F24S 25/12>
D	F24J 2/5233	<administrative transfer to F24S 25/13>
D	F24J 2/5235	<administrative transfer to F24S 25/15>
D	F24J 2/5237	<administrative transfer to F24S 25/11>
D	F24J 2/5239	<administrative transfer to F24S 25/16>
D	F24J 2/5241	<administrative transfer to F24S 25/50>
D	F24J 2/5243	<administrative transfer to F24S 25/60>
D	F24J 2/5245	<administrative transfer to F24S 25/61>
D	F24J 2/5247	<administrative transfer to F24S 25/613>
D	F24J 2/5249	<administrative transfer to F24S 25/615>
D	F24J 2/525	<administrative transfer to F24S 25/617>
D	F24J 2/5252	<administrative transfer to F24S 25/63>
D	F24J 2/5254	<administrative transfer to F24S 25/632>
D	F24J 2/5256	<administrative transfer to F24S 25/634>
D	F24J 2/5258	<administrative transfer to F24S 25/636>
D	F24J 2/526	<administrative transfer to F24S 25/65>
D	F24J 2/5262	<administrative transfer to F24S 25/67>
D	F24J 2/5264	<administrative transfer to F24S 25/70>
D	F24J 2/5266	<administrative transfer to F24S 30/20>
D	F24J 2/5267	<administrative transfer to F24S 20/70>
D	F24J 2/5269	<administrative transfer to F24S 20/70>
D	F24J 2/5271	<administrative transfer to F24S 20/80>
D	F24J 2002/5273	<administrative transfer to F24S 2025/01>
D	F24J 2002/5275	<administrative transfer to F24S 2025/011>
D	F24J 2002/5277	<administrative transfer to F24S 2025/012>

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D	F24J 2002/5279	<administrative transfer to F24S 2025/013>
D	F24J 2002/5281	<administrative transfer to F24S 2025/014>
D	F24J 2002/5283	<administrative transfer to F24S 2025/015>
D	F24J 2002/5284	<administrative transfer to F24S 2025/016>
D	F24J 2002/5286	<administrative transfer to F24S 2025/017>
D	F24J 2002/5288	<administrative transfer to F24S 2025/018>
D	F24J 2002/529	<administrative transfer to F24S 2025/019>
D	F24J 2002/5292	<administrative transfer to F24S 2025/02>
D	F24J 2002/5294	<administrative transfer to F24S 2025/021>
D	F24J 2002/5296	<administrative transfer to F24S 2025/022>
D	F24J 2002/5298	<administrative transfer to F24S 2025/023>
D	F24J 2/54	<administrative transfer to F24S 30/40>
D	F24J 2/5403	<administrative transfer to F24S 30/42>
D	F24J 2/5406	<administrative transfer to F24S 30/422>
D	F24J 2/541	<administrative transfer to F24S 30/425>
D	F24J 2/5413	<administrative transfer to F24S 30/428>
D	F24J 2/5417	<administrative transfer to F24S 30/45>
D	F24J 2/542	<administrative transfer to F24S 30/452>
D	F24J 2/5424	<administrative transfer to F24S 30/455>
D	F24J 2/5427	<administrative transfer to F24S 30/458>
D	F24J 2/5431	<administrative transfer to F24S 30/48>
D	F24J 2002/5434	<administrative transfer to F24S 2030/10>
D	F24J 2002/5437	<administrative transfer to F24S 2030/11>
D	F24J 2002/5441	<administrative transfer to F24S 2030/115>
D	F24J 2002/5444	<administrative transfer to F24S 2030/12>
D	F24J 2002/5448	<administrative transfer to F24S 2030/13>
D	F24J 2002/5451	<administrative transfer to F24S 2030/131>
D	F24J 2002/5455	<administrative transfer to F24S 2030/132>
D	F24J 2002/5458	<administrative transfer to F24S 2030/133>
D	F24J 2002/5462	<administrative transfer to F24S 2030/134>
D	F24J 2002/5465	<administrative transfer to F24S 2030/135>
D	F24J 2002/5468	<administrative transfer to F24S 2030/136>
D	F24J 2002/5472	<administrative transfer to F24S 2030/137>
D	F24J 2002/5475	<administrative transfer to F24S 2030/14>
D	F24J 2002/5479	<administrative transfer to F24S 2030/145>
D	F24J 2002/5482	<administrative transfer to F24S 2030/15>
D	F24J 2002/5486	<administrative transfer to F24S 2030/16>
D	F24J 2002/5489	<administrative transfer to F24S 2030/17>

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D	F24J 2002/5493	<administrative transfer to F24S 2030/18>
D	F24J 2002/5496	<administrative transfer to F24S 2030/19>
D	F24J 3/00	<administrative transfer to F24V 99/00>
D	F24J 3/003	<administrative transfer to F24V 40/00>
D	F24J 3/006	<administrative transfer to F24V 40/10>
D	F24J 3/06	<administrative transfer to F24V 50/00>
D	F24J 3/08	<administrative transfer to F24T 10/00>
D	F24J 3/081	<administrative transfer to F24T 10/10>
D	F24J 3/082	<administrative transfer to F24T 10/13>
D	F24J 3/083	<administrative transfer to F24T 10/15>
D	F24J 3/084	<administrative transfer to F24T 10/17>
D	F24J 3/085	<administrative transfer to F24T 10/20>
D	F24J 3/086	<administrative transfer to F24T 10/30>
D	F24J 2003/087	<administrative transfer to F24T 2010/50>
D	F24J 2003/088	<administrative transfer to F24T 2010/53>
D	F24J 2003/089	<administrative transfer to F24T 2010/56>
D	F24J 2200/00	<administrative transfer to F24V 99/00>
D	F24J 2200/04	<administrative transfer to F24S 2201/00>
D	F24J 2200/06	<administrative transfer to F24T 2201/00>
Q	F24S 10/80	F24S 10/80, F24S 10/95
Q	F24S 10/90	F24S 10/90, F24S 10/95, F24S 90/10
Q	F24S 20/30	F24S 20/30, F24S 50/20
Q	F24S 20/50	F24S 20/50, F24S 20/55
Q	F24S 20/66	F24S 20/66, F24S 20/69
Q	F24S 20/70	F24S 20/70, F24S 30/00, F24S 30/20, F24S 30/40, F24S 30/42, F24S 30/422, F24S 30/425, F24S 30/428, F24S 30/45, F24S 30/452, F24S 30/455, F24S 30/458, F24S 30/48
Q	F24S 21/00	F24S 21/00, F24S 20/00
Q	F24S 23/00	F24S 23/00, F24S 50/20
Q	F24S 23/71	F24S 23/71, F24S 23/74
Q	F24S 2023/88	F24S 2023/88, F24S 2070/62
Q	F24S 30/20	F24S 30/20, F24S 30/00
Q	F24S 40/00	F24S 40/00, F24S 40/90
Q	F24S 40/42	F24S 40/42, F24S 40/53
Q	F24S 60/00	F24S 60/00, F24S 60/10, F24S 60/20
Q	F24S 60/30	F24S 60/30, F24S 60/10, F24S 60/20
Q	F24S 70/20	F24S 70/20, F24S 70/225
Q	F24S 70/25	F24S 70/25, F24S 70/225

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
Q	F24S 70/275	F24S 70/275, F24S 70/225
Q	F24S 80/00	F24S 80/00, F24S 70/00
Q	F24S 80/50	F24S 80/50, F24S 80/56, F24S 80/58
Q	F24S 80/52	F24S 80/52, F24S 80/56, F24S 80/58
Q	F24S 80/525	F24S 80/525, F24S 80/56, F24S 80/58
Q	F24S 80/54	F24S 80/54, F24S 80/56, F24S 80/58
Q	F24S 90/10	F24S 90/10, F24S 10/90, F24S 10/95
Q	F24T 10/00	F24T 10/00, F24T 10/10, F24T 10/30, F24T 10/40, F24T 50/00
Q	F24T 10/10	F24T 10/10, F24T 10/30, F24T 10/40
Q	F24T 10/30	F24T 10/30, F24T 10/40

* 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.

NOTES:

- Only C, D, and Q type entries are included in the table above.
- When multiple symbols are included in the “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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24J1/00		delete
F24J2/00		delete
F24J2/0007		delete
F24J2/0015		delete
F24J2/0023		delete
F24J2002/003		delete
F24J2002/0038		delete
F24J2002/0046		delete
F24J2002/0053		delete
F24J2002/0061		delete
F24J2002/0069		delete
F24J2002/0076		delete
F24J2002/0084		delete
F24J2002/0092		delete
F24J2/02		delete
F24J2/04		delete
F24J2002/0405		delete
F24J2002/0411		delete
F24J2002/0416		delete
F24J2/0422		delete
F24J2/0427		delete
F24J2/0433		delete
F24J2/0438		delete
F24J2/0444		delete
F24J2/045		delete
F24J2/0455		delete
F24J2/0461		delete
F24J2/0466		delete
F24J2/0472		delete
F24J2/0477		delete
F24J2/0483		delete
F24J2/0488		delete
F24J2/0494		delete
F24J2/05		delete
F24J2/055		delete
F24J2/06		delete
F24J2/062		delete
F24J2/065		delete
F24J2/067		delete
F24J2/07		delete

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24J2002/075		delete
F24J2/08		delete
F24J2/085		delete
F24J2/10		delete
F24J2002/1004		delete
F24J2002/1009		delete
F24J2002/1014		delete
F24J2002/1019		delete
F24J2002/1023		delete
F24J2002/1028		delete
F24J2002/1033		delete
F24J2002/1038		delete
F24J2002/1042		delete
F24J2/1047		delete
F24J2/1052		delete
F24J2/1057		delete
F24J2002/1061		delete
F24J2002/1066		delete
F24J2002/1071		delete
F24J2002/1076		delete
F24J2002/108		delete
F24J2002/1085		delete
F24J2002/109		delete
F24J2002/1095		delete
F24J2/12		delete
F24J2/125		delete
F24J2/13		delete
F24J2/14		delete
F24J2/145		delete
F24J2/15		delete
F24J2/16		delete
F24J2/18		delete
F24J2/20		delete
F24J2/201		delete
F24J2/202		delete
F24J2/204		delete
F24J2/205		delete
F24J2/207		delete
F24J2/208		delete
F24J2/22		delete
F24J2/23		delete
F24J2/24		delete
F24J2002/241		delete
F24J2/242		delete

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24J2/243		delete
F24J2/244		delete
F24J2/245		delete
F24J2/246		delete
F24J2/247		delete
F24J2/248		delete
F24J2/26		delete
F24J2002/261		delete
F24J2002/263		delete
F24J2/265		delete
F24J2/266		delete
F24J2/268		delete
F24J2/28		delete
F24J2/30		delete
F24J2/32		delete
F24J2/34		delete
F24J2/345		delete
F24J2/36		delete
F24J2/38		delete
F24J2002/385		delete
F24J2/40		delete
F24J2/402		delete
F24J2/405		delete
F24J2/407		delete
F24J2/42		delete
F24J2/423		delete
F24J2/426		delete
F24J2/44		delete
F24J2/46		delete
F24J2002/4601		delete
F24J2002/4603		delete
F24J2002/4605		delete
F24J2/4607		delete
F24J2/4609		delete
F24J2/461		delete
F24J2/4612		delete
F24J2/4614		delete
F24J2/4616		delete
F24J2/4618		delete
F24J2/462		delete
F24J2/4621		delete
F24J2/4623		delete
F24J2/4625		delete
F24J2/4627		delete

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24J2/4629		delete
F24J2/463		delete
F24J2/4632		delete
F24J2/4634		delete
F24J2/4636		delete
F24J2/4638		delete
F24J2/464		delete
F24J2/4641		delete
F24J2/4643		delete
F24J2/4645		delete
F24J2/4647		delete
F24J2/4649		delete
F24J2/465		delete
F24J2/4652		delete
F24J2/4654		delete
F24J2002/4656		delete
F24J2002/4658		delete
F24J2002/4659		delete
F24J2002/4661		delete
F24J2002/4663		delete
F24J2002/4665		delete
F24J2002/4667		delete
F24J2002/4669		delete
F24J2002/467		delete
F24J2002/4672		delete
F24J2002/4674		delete
F24J2002/4676		delete
F24J2002/4678		delete
F24J2002/4679		delete
F24J2002/4681		delete
F24J2002/4683		delete
F24J2002/4685		delete
F24J2002/4687		delete
F24J2002/4689		delete
F24J2002/469		delete
F24J2002/4692		delete
F24J2002/4694		delete
F24J2002/4696		delete
F24J2002/4698		delete
F24J2/48		delete
F24J2/481		delete
F24J2/482		delete
F24J2/484		delete
F24J2/485		delete

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24J2/487		delete
F24J2/488		delete
F24J2/50		delete
F24J2002/501		delete
F24J2002/502		delete
F24J2002/503		delete
F24J2/505		delete
F24J2/506		delete
F24J2/507		delete
F24J2002/508		delete
F24J2/51		delete
F24J2/515		delete
F24J2/52		delete
F24J2/5201		delete
F24J2/5203		delete
F24J2/5205		delete
F24J2/5207		delete
F24J2/5209		delete
F24J2/5211		delete
F24J2002/5213		delete
F24J2002/5215		delete
F24J2002/5216		delete
F24J2002/5218		delete
F24J2002/522		delete
F24J2002/5222		delete
F24J2002/5224		delete
F24J2002/5226		delete
F24J2/5228		delete
F24J2/523		delete
F24J2/5232		delete
F24J2/5233		delete
F24J2/5235		delete
F24J2/5237		delete
F24J2/5239		delete
F24J2/5241		delete
F24J2/5243		delete
F24J2/5245		delete
F24J2/5247		delete
F24J2/5249		delete
F24J2/525		delete
F24J2/5252		delete
F24J2/5254		delete
F24J2/5256		delete
F24J2/5258		delete

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24J2/526		delete
F24J2/5262		delete
F24J2/5264		delete
F24J2/5266		delete
F24J2/5267		delete
F24J2/5269		delete
F24J2/5271		delete
F24J2002/5273		delete
F24J2002/5275		delete
F24J2002/5277		delete
F24J2002/5279		delete
F24J2002/5281		delete
F24J2002/5283		delete
F24J2002/5284		delete
F24J2002/5286		delete
F24J2002/5288		delete
F24J2002/529		delete
F24J2002/5292		delete
F24J2002/5294		delete
F24J2002/5296		delete
F24J2002/5298		delete
F24J2/54		delete
F24J2/5403		delete
F24J2/5406		delete
F24J2/541		delete
F24J2/5413		delete
F24J2/5417		delete
F24J2/542		delete
F24J2/5424		delete
F24J2/5427		delete
F24J2/5431		delete
F24J2002/5434		delete
F24J2002/5437		delete
F24J2002/5441		delete
F24J2002/5444		delete
F24J2002/5448		delete
F24J2002/5451		delete
F24J2002/5455		delete
F24J2002/5458		delete
F24J2002/5462		delete
F24J2002/5465		delete
F24J2002/5468		delete
F24J2002/5472		delete
F24J2002/5475		delete

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24J2002/5479		delete
F24J2002/5482		delete
F24J2002/5486		delete
F24J2002/5489		delete
F24J2002/5493		delete
F24J2002/5496		delete
F24J3/00		delete
F24J3/003		delete
F24J3/006		delete
F24J3/06		delete
F24J3/08		delete
F24J3/081		delete
F24J3/082		delete
F24J3/083		delete
F24J3/084		delete
F24J3/085		delete
F24J3/086		delete
F24J2003/087		delete
F24J2003/088		delete
F24J2003/089		delete
F24J2200/00		delete
F24J2200/04		delete
F24J2200/06		delete
F24S 10/00	F24S 10/00	New
F24S 10/10	F24S 10/10	New
F24S 10/13	F24S 10/13	New
F24S 10/17	F24S 10/17	New
F24S 10/20	F24S 10/20	New
F24S 10/25	F24S 10/25	New
F24S 10/30	F24S 10/30	New
F24S 10/40	F24S 10/40	New
F24S 10/45	F24S 10/40	New
F24S 10/50	F24S 10/50	New
F24S 10/501	F24S 10/50	New
F24S 10/502	F24S 10/50	New
F24S 10/503	F24S 10/50	New
F24S 10/504	F24S 10/50	New
F24S 10/505	F24S 10/50	New
F24S 10/506	F24S 10/50	New
F24S 10/55	F24S 10/55	New
F24S 10/60	F24S 10/60	New
F24S 10/70	F24S 10/70	New
F24S 2010/71	F24S 10/70	New
F24S 10/72	F24S 10/70	New

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24S 10/73	F24S 10/70	New
F24S 10/74	F24S 10/70	New
F24S 10/742	F24S 10/70	New
F24S 10/744	F24S 10/70	New
F24S 10/746	F24S 10/70	New
F24S 10/748	F24S 10/70	New
F24S 10/75	F24S 10/75	New
F24S 2010/751	F24S 10/75	New
F24S 2010/752	F24S 10/75	New
F24S 10/753	F24S 10/75	New
F24S 10/754	F24S 10/75	New
F24S 10/755	F24S 10/75	New
F24S 10/80	F24S 10/80	New
F24S 10/90	F24S 10/90	New
F24S 10/95	F24S 10/95	New
F24S 20/00	F24S 20/00	New
F24S 20/02	F24S 20/00	New
F24S 20/04	F24S 20/00	New
F24S2020/10	F24S 20/00	New
F24S2020/11	F24S 20/00	New
F24S2020/12	F24S 20/00	New
F24S2020/13	F24S 20/00	New
F24S2020/14	F24S 20/00	New
F24S2020/15	F24S 20/00	New
F24S2020/16	F24S 20/00	New
F24S2020/17	F24S 20/00	New
F24S2020/18	F24S 20/00	New
F24S2020/183	F24S 20/00	New
F24S2020/186	F24S 20/00	New
F24S 20/20	F24S 20/20	New
F24S 2020/23	F24S 20/20	New
F24S 20/25	F24S 20/25	New
F24S 20/30	F24S 20/30	New
F24S 20/40	F24S 20/40	New
F24S 20/50	F24S 20/50	New
F24S 20/55	F24S 20/55	New
F24S 20/60	F24S 20/60	New
F24S 20/61	F24S 20/61	New
F24S 20/62	F24S 20/62	New
F24S 20/63	F24S 20/63	New
F24S 20/64	F24S 20/64	New
F24S 20/66	F24S 20/66	New
F24S 20/67	F24S 20/67	New
F24S 20/69	F24S 20/69	New

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24S 20/70	F24S 20/70	New
F24S 20/80	F24S 20/80	New
F24S 21/00	F24S 21/00	New
F24S 23/00	F24S 23/00	New
F24S 23/10	F24S 23/00	New
F24S 23/11	F24S 23/00	New
F24S 23/12	F24S 23/00	New
F24S 23/30	F24S 23/30	New
F24S 23/31	F24S 23/30	New
F24S 23/70	F24S 23/70	New
F24S 23/71	F24S 23/71	New
F24S 23/715	F24S 23/71	New
F24S 23/72	F24S 23/72	New
F24S 23/74	F24S 23/74	New
F24S 23/745	F24S 23/74	New
F24S 23/75	F24S 23/75	New
F24S 23/77	F24S 23/77	New
F24S 23/79	F24S 23/79	New
F24S 23/80	F24S 23/70	New
F24S 23/81	F24S 23/70	New
F24S 23/82	F24S 23/70	New
F24S 2023/83	F24S 23/70	New
F24S 2023/831	F24S 23/70	New
F24S 2023/832	F24S 23/70	New
F24S 2023/833	F24S 23/70	New
F24S 2023/834	F24S 23/70	New
F24S 2023/835	F24S 23/70	New
F24S 2023/836	F24S 23/70	New
F24S 2023/837	F24S 23/70	New
F24S 2023/838	F24S 23/70	New
F24S 2023/84	F24S 23/70	New
F24S 2023/85	F24S 23/70	New
F24S 2023/86	F24S 23/70	New
F24S 2023/87	F24S 23/70	New
F24S 2023/872	F24S 23/70	New
F24S 2023/874	F24S 23/70	New
F24S 2023/876	F24S 23/70	New
F24S 2023/878	F24S 23/70	New
F24S 2023/88	F24S 23/70	New
F24S 25/00	F24S 25/00	New
F24S 2025/01	F24S 25/00	New
F24S 2025/011	F24S 25/00	New
F24S 2025/012	F24S 25/00	New
F24S 2025/013	F24S 25/00	New

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24S 2025/014	F24S 25/00	New
F24S 2025/015	F24S 25/00	New
F24S 2025/016	F24S 25/00	New
F24S 2025/017	F24S 25/00	New
F24S 2025/018	F24S 25/00	New
F24S 2025/019	F24S 25/00	New
F24S 2025/02	F24S 25/00	New
F24S 2025/021	F24S 25/00	New
F24S 2025/022	F24S 25/00	New
F24S 2025/023	F24S 25/00	New
F24S 25/10	F24S 25/10	New
F24S 25/11	F24S 25/11	New
F24S 25/12	F24S 25/12	New
F24S 25/13	F24S 25/13	New
F24S 25/15	F24S 25/15	New
F24S 25/16	F24S 25/16	New
F24S 25/20	F24S 25/20	New
F24S 25/30	F24S 25/30	New
F24S 25/33	F24S 25/33	New
F24S 25/35	F24S 25/35	New
F24S 25/37	F24S 25/37	New
F24S 25/40	F24S 25/40	New
F24S 25/50	F24S 25/50	New
F24S 25/60	F24S 25/60	New
F24S 2025/6001	F24S 25/60	New
F24S 2025/6002	F24S 25/60	New
F24S 2025/6003	F24S 25/60	New
F24S 2025/6004	F24S 25/60	New
F24S 2025/6005	F24S 25/60	New
F24S 2025/6006	F24S 25/60	New
F24S 2025/6007	F24S 25/60	New
F24S 2025/6008	F24S 25/60	New
F24S 2025/6009	F24S 25/60	New
F24S 2025/601	F24S 25/60	New
F24S 2025/6011	F24S 25/60	New
F24S 2025/6012	F24S 25/60	New
F24S 2025/6013	F24S 25/60	New
F24S 25/61	F24S 25/61	New
F24S 25/613	F24S 25/613	New
F24S 25/615	F24S 25/615	New
F24S 25/617	F24S 25/617	New
F24S 25/63	F24S 25/63	New
F24S 25/632	F24S 25/632	New
F24S 25/634	F24S 25/634	New

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24S 25/636	F24S 25/636	New
F24S 25/65	F24S 25/65	New
F24S 25/67	F24S 25/67	New
F24S 25/70	F24S 25/70	New
F24S 2025/80	F24S 25/00	New
F24S 2025/801	F24S 25/00	New
F24S 2025/802	F24S 25/00	New
F24S 2025/803	F24S 25/00	New
F24S 2025/804	F24S 25/00	New
F24S 2025/805	F24S 25/00	New
F24S 2025/806	F24S 25/00	New
F24S 2025/807	F24S 25/00	New
F24S 30/00	F24S 30/00	New
F24S 2030/10	F24S 30/00	New
F24S 2030/11	F24S 30/00	New
F24S 2030/115	F24S 30/00	New
F24S 2030/12	F24S 30/00	New
F24S 2030/13	F24S 30/00	New
F24S 2030/131	F24S 30/00	New
F24S 2030/132	F24S 30/00	New
F24S 2030/133	F24S 30/00	New
F24S 2030/134	F24S 30/00	New
F24S 2030/135	F24S 30/00	New
F24S 2030/136	F24S 30/00	New
F24S 2030/137	F24S 30/00	New
F24S 2030/14	F24S 30/00	New
F24S 2030/145	F24S 30/00	New
F24S 2030/15	F24S 30/00	New
F24S 2030/16	F24S 30/00	New
F24S 2030/17	F24S 30/00	New
F24S 2030/18	F24S 30/00	New
F24S 2030/19	F24S 30/00	New
F24S 30/20	F24S 30/20	New
F24S 30/40	F24S 30/40	New
F24S 30/42	F24S 30/42	New
F24S 30/422	F24S 30/422	New
F24S 30/425	F24S 30/425	New
F24S 30/428	F24S 30/428	New
F24S 30/45	F24S 30/45	New
F24S 30/452	F24S 30/452	New
F24S 30/455	F24S 30/455	New
F24S 30/458	F24S 30/458	New
F24S 30/48	F24S 30/48	New
F24S 40/00	F24S 40/00	New

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24S 40/10	F24S 40/10	New
F24S 40/20	F24S 40/20	New
F24S 40/40	F24S 40/40	New
F24S 40/42	F24S 40/42	New
F24S 40/44	F24S 40/44	New
F24S 40/46	F24S 40/46	New
F24S 40/48	F24S 40/48	New
F24S 40/50	F24S 40/50	New
F24S 40/52	F24S 40/52	New
F24S 40/53	F24S 40/53	New
F24S 40/55	F24S 40/55	New
F24S 40/57	F24S 40/57	New
F24S 40/58	F24S 40/58	New
F24S 40/60	F24S 40/60	New
F24S 40/70	F24S 40/70	New
F24S 40/80	F24S 40/80	New
F24S 40/85	F24S 40/80	New
F24S 40/90	F24S 40/90	New
F24S 50/00	F24S 50/00	New
F24S 50/20	F24S 50/20	New
F24S 2050/25	F24S 50/20	New
F24S 50/40	F24S 50/40	New
F24S 50/60	F24S 50/60	New
F24S 50/80	F24S 50/80	New
F24S 60/00	F24S 60/00	New
F24S 60/10	F24S 60/10	New
F24S 60/20	F24S 60/20	New
F24S 60/30	F24S 60/30	New
F24S 70/00	F24S 70/00	New
F24S 70/10	F24S 70/10	New
F24S 70/12	F24S 70/12	New
F24S 70/14	F24S 70/14	New
F24S 70/16	F24S 70/16	New
F24S 70/20	F24S 70/20	New
F24S 70/225	F24S 70/225	New
F24S 70/25	F24S 70/25	New
F24S 70/275	F24S 70/275	New
F24S 70/30	F24S 70/30	New
F24S 70/60	F24S 70/60	New
F24S 2070/62	F24S 70/60	New
F24S 70/65	F24S 70/65	New
F24S 80/00	F24S 80/00	New
F24S 2080/01	F24S 80/00	New
F24S 2080/011	F24S 80/00	New

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24S 2080/012	F24S 80/00	New
F24S 2080/013	F24S 80/00	New
F24S 2080/014	F24S 80/00	New
F24S 2080/015	F24S 80/00	New
F24S 2080/016	F24S 80/00	New
F24S 2080/017	F24S 80/00	New
F24S 2080/018	F24S 80/00	New
F24S 2080/03	F24S 80/00	New
F24S 2080/05	F24S 80/00	New
F24S 2080/07	F24S 80/00	New
F24S 2080/09	F24S 80/00	New
F24S 80/10	F24S 80/10	New
F24S 80/20	F24S 80/20	New
F24S 80/30	F24S 80/30	New
F24S 80/40	F24S 80/40	New
F24S 80/45	F24S 80/45	New
F24S 80/453	F24S 80/453	New
F24S 80/457	F24S 80/457	New
F24S 80/50	F24S 80/50	New
F24S 2080/501	F24S 80/50	New
F24S 2080/502	F24S 80/50	New
F24S 2080/503	F24S 80/50	New
F24S 80/52	F24S 80/52	New
F24S 80/525	F24S 80/525	New
F24S 80/54	F24S 80/54	New
F24S 80/56	F24S 80/56	New
F24S 80/58	F24S 80/58	New
F24S 80/60	F24S 80/60	New
F24S 80/65	F24S 80/65	New
F24S 80/70	F24S 80/70	New
F24S 90/00	F24S 90/00	New
F24S 90/10	F24S 90/10	New
F24S 2201/00	CPCONLY	New
F24T 10/00	F24T 10/00	New
F24T 10/10	F24T 10/10	New
F24T 10/13	F24T 10/13	New
F24T 10/15	F24T 10/15	New
F24T 10/17	F24T 10/17	New
F24T 10/20	F24T 10/20	New
F24T 10/30	F24T 10/30	New
F24T 10/40	F24T 10/40	New
F24T 2010/50	F24T 10/00	New
F24T 2010/53	F24T 10/00	New
F24T 2010/56	F24T 10/00	New

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F24T 50/00	F24T 50/00	New
F24T 2201/00	CPCONLY	New
F24V 30/00	F24V 30/00	New
F24V 40/00	F24V 40/00	New
F24V 40/10	F24V 40/10	New
F24V 50/00	F24V 50/00	New
F24V 99/00	F24V 99/00	New

*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 CICL table above.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

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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>
A01G 9/243	F24J	Update reference symbol F24S
E04C 2/525	F24J 2/04	Update reference symbol F24S 10/00
E04D 3/40	F24J 2/00	Update reference symbol F24S 20/67
E04H 4/129	F24J 2/0461	Update reference symbol F24S 10/10
E04H 4/129	F24J 2/0472	Update reference symbol F24S 10/17
E04H 4/129	F24J 2/423	Update reference symbol F24S 20/02
F03G 6/06	F24J 2/06	Update reference symbol F24S 23/00
F21S 11/00	F24J 2/00	Update reference symbol F24S
F22B 1/00	F24J	Update reference symbol F24S
F22B 1/006	F24J 2/00	Update reference symbol F24S
F22G 1/00	F24J	Update reference symbol F24V 30/00
F24C 9/00	F24J	modify text and references by using solar energy F24S 20/30; using the heat from an exothermal reaction not involving a supply of free oxygen gas F24V 30/00
F24D 3/005	F24J 2/00	Update reference symbol F24S
F24D 5/005	F24J 2/00	Update reference symbol F24S
F25B 27/002	F24J 2/00	modify text and references by solar heat collectors F24S
F28D 15/02	F24J 2/32	Update reference symbol F24S 10/95
G02B 6/4298	F24J	delete reference
H01L 31/00	F24J 2/00	delete reference

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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>
B08B	F24J 2/461	Definition statement	F24S 40/20
B60H 1/038	F24J 3/003	Informative references	F24V 40/00
B63B 35/00	F24J 2/00	Informative references	F24S
B63J 2/00	F24J	Informative references	F24S
B65D 81/3484	F24J 1/00	Limiting references	F24V 30/00
C04B 2/04	F24J 1/00 (Referenced with A47J36/28)	Limiting references	F24V 30/00
C06B	F24J	Informative references	F24V
C06C 15/00	F24J 1/00	Informative references	F24V 30/00
C09K 5/00	F24J 2/00	Informative references	F24S 10/501, F24S 10/73, F24S 10/80, F24S 20/55, F24S 23/11, F24S 23/82, F24S 70/00-F24S 80/00
E04B 1/74	F24J 2/00	Informative references	F24S 20/00, F24S 21/00
E04C 2/525	F24J 2/04	Informative references	F24S
E04D	F24J 2/00	Limiting references	F24S 20/67
E04D 1/00	F24J 2/0455	Limiting references	F24S 20/69
E04D 3/00	F24J 2/045	Limiting references	F24S 20/67
E04D 3/40	F24J 2/045	Limiting references	F24S 20/67
E04D 13/00	F24J 2/045 (Referenced with F24J2/0455)	Limiting references	F24S 20/67
E04D 13/00	F24J 2/0455 (Referenced with F24J2/045)	Limiting references	Delete symbol
E04H 4/12	F24J 2/0461 (Referenced with F24J2/0472)	Informative references	F24S 10/10
E04H 4/12	F24J 2/0472 (Referenced with F24J2/0461)	Informative references	F24S 10/17
E04H 4/12	F24J 2/423	Informative references	F24S 20/02
E04H 6/00	F24J 2/00	Informative references	F24S

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<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>
F01K 3/00	F24J 2/34	Informative references	F24S 60/00
F01K 3/00	F24J 2/345	Informative references	F24S 60/30
F03G 6/00	F24J 2/00	Informative references	F24S
F16B 7/00	F24J 2/52	Application-oriented references	F24S 25/00
F16M	F24J 2/52	Informative references	F24S 25/00
F22B 1/00	F24J 2/00	Relationships with other classification places	F24S
F23B	F24J	Informative references	F24V 30/00
F23C	F24J	Informative references	F24V 30/00
F24C 9/00	F24J 2/02	Limiting references	F24S 20/30
F24D	F24J	Informative references	F24S, F24T, F24V
F24D	F24J	Relationships with other classification places	F24S, F24T
F24D 11/00	F24J 2/00	Informative references	F24S 21/00
F24D 11/00	F24J 3/00	Informative references	F24V 30/00, F24V 99/00
F24D 17/00	F24J 2/00	Informative references	F24S
F24F 5/00	F24J 2/04	Informative references	F24S
F24F 5/00	F24J 3/08	Informative references	F24T
F24H	F24J	Informative references	F24S, F24T
F24H	F24J	Relationships with other classification places	F24S, F24T
F25B 27/00	F24J 2/00	Limiting references	F24S 20/00
F26B	F24J 2/00	Informative references	F24S
F26B 3/00	F24J 2/00	Informative references	F24S

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<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>
F26B 3/28	F24J 2/00	Informative references	F24S
F28D 15/00	F24J 2/32	Informative references	F24S 10/95
F28D 15/00	F24J 3/08	Informative references	F24T
G02B	F24J 2/00	Informative references	F24S
G02B 19/00	F24J 2/00	Informative references	F24S
G05B	F24J 2/40	Application-oriented references	F24S 50/00
G05D 3/00	F24J 2/38	Application-oriented references	F24S 50/20
H01L 31/00	F24J 2/00	Informative references	F24S
H01L 31/04	F24J 2/00	Informative references	F24S
H01L 31/0525	F24J 2/00	Informative references	F24S 20/00
H01L 31/054	F24J 2/06	Informative references	F24S 23/00
H02S 20/00	F24J 2/38	Special rules of classification	F24S 50/20
H02S 20/00	F24J 2/52	Special rules of classification	F24S 25/00
H02S 20/25	F24J 2/04	Informative references	F24S 20/69
H02S 20/32	F24J 2/54	Informative references	F24S 30/40
H02S 30/10	F24J 2/52	Informative references	F24S 25/00
H02S 40/22	F24J 2/06	Informative references	F24S 23/00
H02S 40/44	F24J 2/00	Informative references	F24S 20/00

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.