

Statistical mapping of USPC to CPC for Class 219

USPC Subclass	Most statistically relevant CPC groups
219/600	B 05D 3/0272, B 23P 25/003, B 27M 1/06, B 43K 19/16, C 21D 1/42
219/601	H 05B 6/129, H 05B 6/6488, Y 02B 40/123, B 29C 2035/0811, H 05B 6/062
219/602	B 21J 9/08, B 23P 25/003, B 21B 45/004, H 05B 6/06, H 05B 6/101
219/603	B 21B 15/0085, B 23K 13/015, B 23K 20/06, B 21B 1/26, B 23K 13/02
219/604	B 29C 65/3656, B 29C 65/368, B 29C 66/72321, B 29C 66/534, B 65B 51/227
219/605	B 23K 1/002, H 05K 3/3494, H 05K 2203/101, H 01R 43/02, H 01R 43/0242
219/606	B 23K 13/00, B 21D 53/30, B 21L 3/02, B 23K 1/002, B 23K 11/002
219/607	B 23K 13/02, H 05B 6/42, B 23P 11/027, H 05B 6/14, B 23B 31/1179
219/608	B 23K 13/02, B 23K 13/025, B 23K 13/08, B 21C 37/0811, B 21C 51/00
219/609	B 21C 29/00, B 23K 13/02, B 23P 11/025, H 01B 13/2633, B 05B 13/0618
219/610	B 23K 13/02, B 23K 13/025, B 21C 37/0807, B 23K 1/16, B 23K 9/0253
219/611	B 23K 13/00, B 23K 1/002, B 23K 13/06, B 23K 20/06, C 21D 9/50
219/612	B 23K 13/02, B 23K 13/025, B 21C 37/08, B 23K 11/084, B 23K 1/16
219/613	B 23K 13/02, B 23K 13/025, B 23K 2201/06, B 23K 13/00, B 23K 31/02
219/614	B 23K 13/02, B 23K 13/025, B 21C 37/08, B 21C 37/0811, B 21C 37/0822
219/615	B 23K 1/002, B 21D 26/021, B 21D 26/055, B 22F 3/105, B 23K 20/023

219/616	B 23K 1/002, H 05K 3/3494, H 01R 43/0207, B 23K 3/04, B 23K 2201/06
219/617	B 23K 13/00, B 23K 20/06, B 23K 13/01, B 23K 2201/26, B 21D 26/14
219/618	H 05B 6/105, H 05B 6/108, H 05B 6/101, H 05B 6/22, B 29B 13/024
219/619	H 05B 6/145, G 03G 15/2053, G 03G 15/2078, D 02J 13/005, G 03G 15/2082
219/620	H 05B 6/062, H 05B 2213/06, H 05B 6/1263, H 05B 2213/07, Y 02B 40/123
219/621	H 05B 6/12, A 47J 36/02, A 47J 27/002, H 05B 6/062, A 47J 36/2494
219/622	H 05B 6/1209, H 05B 6/062, H 05B 2206/022, Y 02B 40/126, H 05B 6/129
219/623	H 05B 6/1263, F 24C 15/101, H 05B 6/062, H 05B 6/1209, A 47B 31/02
219/624	Y 02B 40/126, H 05B 6/062, H 05B 6/065, H 05B 6/1272, H 05B 6/1254
219/625	H 05B 6/062, H 02M 7/523, H 02M 5/27, H 05B 6/065, G 05F 1/45
219/626	H 05B 6/062, H 05B 2213/05, Y 02B 40/126, H 02M 7/523, H 02M 5/45
219/627	H 05B 6/062, H 05B 2213/07, A 47J 27/62, H 05B 2213/06, A 47J 27/002
219/628	H 05B 6/108, F 22B 1/281, B 24B 49/105, H 05B 6/109, A 61L 2/07
219/629	H 05B 6/108, F 16L 53/004, B 24B 49/105, B 29C 47/82, F 16L 53/007
219/630	H 05B 6/108, B 24B 49/105, F 22B 1/281, F 24H 1/101, F 24H 1/225
219/631	H 05B 6/108, H 05B 6/109, F 24J 3/00, F 03D 9/006, H 02K 49/043
219/632	H 05B 6/42, H 05B 6/101, H 05B 6/02, H 05B 6/14, H 05B 6/365
219/633	B 29C 65/36, B 29C 65/3656, B 29C 65/368, B

	29C 66/72321, B 29C 66/80
219/634	B 29C 65/36, H 05B 6/105, C 30B 25/12, B 29C 35/08, C 09J 5/06
219/635	H 05B 6/105, H 05B 6/101, C 21D 1/10, H 05B 6/40, H 05B 6/14
219/636	C 21D 9/60, H 05B 6/104, B 29C 35/10, B 29C 2035/0811, H 05B 6/36
219/637	H 05B 6/06, H 05B 6/02, H 05B 6/101, H 05B 6/365, C 21D 9/0075
219/638	C 30B 13/20, H 05B 6/30, C 30B 13/30, H 05B 6/362, C 01B 33/02
219/639	C 21D 9/30, C 21D 1/10, H 05B 6/40, C 21D 1/42, C 21D 9/28
219/640	C 21D 9/32, H 05B 6/405, C 21D 1/10, H 05B 6/101, C 21D 1/42
219/641	H 05B 6/101, C 21D 1/10, F 01L 3/22, C 21D 9/0068, H 05B 6/06
219/642	C 21D 9/40, H 05B 6/101, C 21D 9/0087, H 05B 6/102, H 05B 6/105
219/643	C 21D 1/42, H 05B 6/101, C 21D 9/08, H 05B 6/40, B 29C 66/1122
219/644	H 05B 6/38, H 05B 6/102, C 21D 1/10, B 23P 19/068, C 21D 9/14
219/645	C 21D 9/60, H 05B 6/365, H 05B 6/104, H 05B 6/40, C 21D 1/42
219/646	H 05B 6/02, H 05B 6/06, C 21D 9/0081, C 21D 1/42, H 05B 6/104
219/647	H 05B 6/02, H 05B 6/36, H 05B 6/24, H 05B 6/362, H 05B 6/44
219/648	H 05B 6/32, C 22B 4/00, C 21D 9/56, C 22B 9/16, C 23C 14/16
219/649	F 27D 11/06, H 05B 6/02, H 05B 6/104, B 65G 69/20, C 21D 1/42
219/650	H 05B 6/06, H 05B 6/02, H 05B 6/04, H 05B 6/104, H 05B 6/42

219/651	C 21D 1/773, H 05B 6/02, H 05B 6/101, B 01J 3/04, B 01J 3/048
219/652	H 05B 6/102, H 05B 6/362, A 23L 3/005, A 23L 3/04, C 21D 1/10
219/653	H 05B 6/362, H 05B 6/103, H 05B 6/02, H 05B 6/36, B 29C 33/02
219/654	H 05B 6/02, C 21D 1/42, F 27D 11/06, H 05B 6/06, B 21J 17/02
219/655	C 21D 1/42, H 05B 6/103, H 05B 6/102, A 21B 2/00, B 23Q 39/042
219/656	H 05B 6/06, H 05B 6/02, H 05B 6/104, H 05B 6/103, H 05B 6/101
219/657	H 05B 6/103, B 29C 33/02, B 29C 35/08, H 05B 6/40, B 23K 1/002
219/658	H 05B 6/02, H 05B 6/103, B 21J 17/02, C 21D 1/42, C 21D 9/08
219/659	H 05B 6/02, H 05B 6/06, H 05B 6/102, H 05B 6/365, B 29C 33/02
219/660	H 05B 6/04, H 05B 6/101, H 05B 6/02, H 05B 6/06, H 05B 6/36
219/661	H 05B 6/04, H 05B 6/06, H 05B 6/062, H 05B 2206/024, Y 02B 70/1441
219/662	H 05B 6/06, H 05B 6/04, H 05B 6/101, H 05B 6/067, H 05B 6/08
219/663	H 05B 6/06, H 05B 6/062, H 05B 6/04, G 03G 15/2078, H 02M 7/48
219/664	H 05B 6/062, H 05B 6/06, G 03G 15/2078, H 02M 7/53803, H 05B 6/04
219/665	H 05B 6/06, H 05B 6/04, H 05B 6/08, G 05D 23/26, H 02M 7/523
219/666	H 05B 6/04, H 05B 6/06, H 02M 7/48, H 05B 6/08, H 05B 6/50
219/667	H 05B 6/06, G 05D 23/27, H 05B 2213/07, B 23K 1/002, C 21D 1/42
219/668	H 05B 6/06, H 02M 7/523, H 05B 6/062, H 02H

	7/122, H 02M 5/45
219/669	H 05B 6/02, B 21J 17/02, H 01F 30/14, H 05B 6/08, G 05D 23/2605
219/670	H 05B 6/04, H 05B 6/101, H 05B 6/40, H 01F 27/2876, H 01F 29/12
219/671	H 05B 6/362, H 05B 6/02, H 05B 6/04, H 05B 6/06, H 05B 6/067
219/672	H 05B 6/36, H 05B 6/40, H 05B 6/362, H 05B 6/104, H 05B 6/365
219/673	H 05B 6/102, H 05B 6/40, H 05B 6/101, H 05B 6/365, H 05B 6/02
219/674	H 05B 6/362, H 05B 6/365, H 05B 6/101, H 05B 6/104, H 05B 6/36
219/675	H 05B 6/362, H 01F 5/00, H 05B 6/1272, B 23K 1/002, C 30B 13/20
219/676	H 05B 6/02, H 05B 6/365, H 05B 6/38, H 05B 6/42, B 29C 65/36
219/677	H 05B 6/362, H 05B 6/42, H 05B 6/36, H 05B 6/40, H 05B 6/101
219/678	H 05B 2206/046, H 05B 6/64, H 05B 6/80, H 05B 6/806, A 47L 13/17
219/679	H 05B 6/806, H 05B 6/80, B 01J 19/126, H 05B 6/808, H 05B 2206/045
219/680	H 05B 6/80, H 05B 6/6482, H 05B 2206/042, H 05B 6/6476, A 47J 37/08
219/681	H 05B 6/6476, H 05B 6/6473, H 05B 6/6482, F 24C 15/325, A 21B 1/245
219/682	H 05B 6/6479, H 05B 6/6458, H 05B 6/782, A 21B 3/04, A 23L 3/365
219/683	H 05B 6/6473, F 24C 15/322, H 05B 6/766, H 05B 6/745, F 24C 15/006
219/684	H 05B 6/782, B 29C 2035/0855, H 05B 6/78, A 21B 1/245, A 23L 1/0135
219/685	H 05B 6/6482, H 05B 6/645, H 05B 6/6411, H 05B 6/642, H 05B 6/766

219/686	B 01J 19/126, H 05B 6/80, H 05B 6/6408, B 01J 2219/1215, G 01N 1/44
219/687	H 05B 6/802, H 05B 6/80, B 01J 19/126, H 05B 6/806, H 05B 6/705
219/688	H 05B 6/804, H 05B 6/802, F 24H 1/101, F 24H 1/225, F 22B 1/281
219/689	A 47J 31/547, A 47J 36/027, B 65D 2581/3409, B 65D 81/3453, A 47J 31/0573
219/690	H 05B 6/705, H 05B 6/701, H 05B 6/70, H 05B 6/80, B 01J 19/126
219/691	H 05B 6/72, H 05B 6/705, H 05B 6/788, H 05B 6/80, G 03G 15/2007
219/692	H 05B 6/78, H 05B 2206/046, H 05B 6/788, A 23L 3/01, A 23L 3/44
219/693	H 05B 6/78, H 05B 6/788, H 05B 6/782, H 05B 6/80, H 05B 2206/046
219/694	H 05B 6/707, H 05B 6/76, H 05B 6/705, H 05B 6/78, H 05B 6/782
219/695	H 05B 6/705, H 05B 6/707, H 05B 6/6402, B 01J 19/126, H 05B 6/70
219/696	H 05B 6/78, H 05B 6/705, H 05B 6/80, H 05B 6/74, H 05B 6/782
219/697	H 05B 6/72, H 05B 6/80, B 01J 19/126, H 05B 6/78, H 05B 6/782
219/698	H 05B 6/78, H 05B 6/782, F 27B 9/243, F 27D 2099/0048, H 05B 6/642
219/699	H 05B 6/76, H 05B 6/78, H 05B 6/782, A 21B 2/00, F 26B 3/347
219/700	H 05B 6/782, H 05B 6/78, A 23L 3/01, A 21B 2/00, A 21B 1/48
219/701	H 05B 6/782, A 23L 3/01, H 05B 6/78, A 61L 2/12, H 05B 6/6411
219/702	H 05B 6/6435, H 05B 6/666, H 05B 6/68, Y 02B 40/143, H 05B 6/6438
219/703	H 05B 6/688, H 05B 6/6458, H 05B 6/6464, H 05B

	6/6411, H 05B 6/666
219/704	H 05B 6/6411, H 05B 6/6447, H 05B 6/666, F 24C 7/08, H 05B 6/687
219/705	H 05B 6/6458, H 05B 6/645, H 05B 6/6435, H 05B 6/6411, H 05B 6/6464
219/706	H 05B 6/68, H 05B 6/687, H 05B 6/6411, H 05B 6/666, B 29C 35/08
219/707	H 05B 6/6458, H 05B 6/642, H 05B 6/6411, H 05B 6/645, H 05B 6/6482
219/708	H 05B 6/6464, H 05B 6/6411, H 05B 6/6435, H 05B 6/6482, H 05B 6/725
219/709	H 05B 6/6447, Y 02B 40/143, H 05B 6/705, H 05B 6/745, H 05B 6/666
219/710	H 05B 6/645, H 05B 6/642, H 05B 6/666, H 05B 6/6411, H 05B 6/6455
219/711	H 05B 6/6455, H 05B 6/6411, H 05B 6/6447, G 01J 5/62, H 05B 6/725
219/712	H 05B 6/6452, H 05B 6/6411, H 05B 6/645, G 01K 7/24, G 01K 13/00
219/713	G 01K 1/024, H 05B 6/6452, H 05B 6/6467, G 01K 13/00, G 01K 7/32
219/714	H 05B 6/6438, H 05B 6/6435, H 05B 6/6482, H 05B 6/6441, G 05B 19/102
219/715	H 05B 6/666, Y 02B 40/143, H 05B 6/68, H 05B 6/66, H 05B 6/685
219/716	H 05B 6/666, H 05B 6/685, H 05B 6/68, Y 02B 40/143, H 05B 6/683
219/717	H 01J 23/48, H 05B 6/64, H 05B 6/666, H 05B 6/685, H 05B 6/80
219/718	H 05B 6/666, H 05B 6/68, H 05B 6/6435, H 05B 6/6452, H 05B 6/6411
219/719	H 05B 6/6435, H 05B 6/666, H 05B 6/6482, H 05B 6/6426, H 05B 6/66
219/720	H 05B 6/6435, H 05B 6/6452, H 05B 6/6482, H 05B 6/66, H 05B 6/666

219/721	H 05B 6/666, H 05B 6/6417, H 02H 9/001, H 05B 6/6432, H 05B 6/6435
219/722	H 05B 6/6417, H 01H 3/163, H 05B 6/763, F 24C 15/022, H 01H 9/226
219/723	H 05B 6/6417, H 05B 6/666, H 01H 9/226, H 05B 6/6435, H 05B 6/6414
219/724	H 05B 6/6417, F 24C 15/022, H 01H 9/226, F 16P 3/08, G 07C 9/00722
219/725	B 65D 81/3453, B 65D 2581/3494, B 65D 2581/3472, A 47J 36/027, B 65D 1/34
219/726	H 05B 6/6411, H 05B 6/745, A 47J 36/027, H 05B 6/64, A 21B 2/00
219/727	B 65D 2581/3421, B 65D 2581/3494, B 65D 81/3469, B 65D 81/3453, B 65D 2205/00
219/728	B 65D 2581/3472, B 65D 81/3453, B 65D 2581/3489, B 65D 2581/3441, B 65D 2581/3494
219/729	B 65D 81/3453, B 65D 2581/3472, B 65D 2581/3489, A 47J 36/027, H 05B 6/6494
219/730	B 65D 2581/3494, B 65D 2581/3472, B 65D 81/3453, B 65D 81/3446, B 65D 2581/3479
219/731	A 47J 36/027, A 23L 3/01, B 65D 81/3453, B 65D 2581/3433, A 23L 3/045
219/732	H 05B 6/6408, A 47J 36/027, B 65D 81/3453, A 47J 43/18, B 65D 2581/3417
219/733	A 47J 36/027, A 47J 37/10, B 65D 81/3453, B 65D 2581/3421, H 05B 6/6426
219/734	B 65D 81/3453, A 47J 36/027, H 05B 6/64, B 65D 2205/00, B 65D 81/3461
219/735	A 47J 36/027, B 65D 81/3453, B 65D 2205/00, A 47J 27/088, A 23L 3/01
219/736	A 61M 5/445, A 61M 2205/3686, H 05B 6/64, H 05B 6/707, H 05B 6/80
219/737	H 05B 6/6432, H 05B 6/763, H 01J 23/54, H 01J 25/58
219/738	H 05B 6/76, H 05B 6/766, H 05B 6/763, F 24C

	7/02, H 05B 6/6405
219/739	H 05B 6/6414, H 05B 6/763, H 05B 6/6417, H 05B 6/766, F 24C 7/02
219/740	H 05B 6/766, H 05B 6/763, F 24C 15/04, H 05B 6/6414, H 05B 6/76
219/741	H 05B 6/763, H 05B 6/766, H 05B 6/6417, H 05B 6/76, H 05K 9/0015
219/742	H 05B 6/763, H 05K 9/0015, F 24C 7/02, F 24C 15/04
219/743	H 05B 6/763, H 05B 6/6414
219/744	H 05B 6/763, H 05B 6/76, H 01P 1/264, H 05B 6/6417, H 05B 6/782
219/745	H 05B 6/64, H 05B 6/6402, H 05B 6/705, H 05B 6/74, H 05B 6/6426
219/746	H 05B 6/707, H 05B 6/6402, H 05B 6/705, Y 02B 40/146, H 05B 6/6411
219/747	H 05B 6/74, H 05B 6/704, B 29B 13/02, H 01P 1/182, H 01P 5/04
219/748	H 05B 6/72, H 05B 6/6402, H 05B 6/705, H 05B 6/70, H 05B 6/74
219/749	H 05B 6/72, H 05B 6/725, H 05B 6/74, H 05B 6/6482, H 05B 6/6402
219/750	H 05B 6/6402, H 05B 6/705, Y 02B 40/146, H 05B 6/642, H 05B 6/6482
219/751	H 05B 6/74, H 05B 6/725, H 05B 6/6402, H 05B 6/745, H 05B 6/642
219/752	H 05B 6/6411, H 05B 6/80, B 01L 3/5025, B 01L 3/5027, B 01L 3/50273
219/753	H 05B 6/6411, H 05B 6/80, H 05B 6/64, A 47J 37/041, A 61M 5/445
219/754	H 05B 6/6411, H 05B 6/6402, H 05B 6/6414, H 05B 6/74, H 05B 6/782
219/755	H 05B 6/6411, A 47J 37/046, H 05B 6/64, H 02K 7/10, F 16D 65/14

219/756	H 05B 6/6426, H 05B 6/6402, H 05B 6/6429, F 24C 15/08, H 05B 6/6414
219/757	H 05B 6/642, H 05B 6/6423, H 05B 6/6429, F 24C 15/2042, F 24C 15/006
219/758	H 05B 6/6444, H 05B 6/6402, H 05B 6/766, F 21W 2131/307, F 24C 15/008
219/759	B 65D 81/3446, B 65D 2581/3472, B 65D 2581/3494, H 05B 6/64, H 05B 6/6494
219/760	H 01F 30/10, H 05B 6/64, H 05B 6/662, H 02K 17/30, H 01F 2038/003
219/761	H 05B 6/72, H 01J 23/15, H 01J 25/04, H 01J 25/50, H 05B 6/66
219/762	H 05B 6/64, H 05B 6/80, B 01J 19/126, B 01J 2219/1218, C 04B 35/64
219/763	H 05B 6/6408, F 24C 15/16, H 05B 6/6402, A 47J 37/06, F 24C 7/02
219/764	H 05B 6/62, B 29C 65/04, B 29K 2021/00, F 26B 3/347, H 05B 6/50
219/765	B 29C 65/04, B 29C 66/80, B 29C 66/1122, B 29C 66/43, B 29C 66/90
219/766	A 43D 25/20, A 43B 23/08, F 26B 3/34, A 43D 11/12, A 43D 25/07
219/767	B 29C 65/04, B 29C 66/80, B 29C 66/90, B 29C 59/02, B 29C 59/026
219/768	B 29C 65/04, B 29C 66/845, B 29C 66/83413, B 29C 66/83411, H 05B 6/50
219/769	B 29C 65/04, B 29C 66/1122, B 29C 66/861, B 29C 66/43, B 29L 2023/005
219/770	H 05B 6/62, B 29C 35/12, H 05B 6/54, B 29C 2035/0861, B 64D 15/12
219/771	H 05B 6/62, H 05B 6/54, A 23L 3/01, A 21B 2/00, A 23L 3/365
219/772	H 05B 6/62, E 21B 43/2401, F 24H 1/225, H 05B 6/50, B 29B 13/022
219/773	H 05B 6/60, H 05B 6/54, F 26B 3/34, D 21F

	, H 05B 6/788
219/774	H 05B 6/62, H 05B 6/78, B 29B 13/00, B 29B 13/02, B 29C 33/08
219/775	H 05B 6/78, H 05B 6/60, H 05B 6/50, H 05B 6/62, F 26B 3/347
219/776	H 05B 6/78, F 26B 3/347, F 26B 13/003, B 29C 35/12, B 29K 2021/00
219/777	H 05B 6/50, H 05B 6/62, H 05B 6/78, H 04B 1/03, B 27D 1/083
219/778	H 05B 6/48, H 05B 6/62, H 05B 6/50, H 05B 6/60, H 05B 6/52
219/779	H 05B 6/50, H 05B 6/48, B 29C 65/04, B 29C 66/90, B 29C 66/91
219/780	H 05B 6/54, H 05B 6/62, B 29C 65/04, B 29C 66/80, H 05B 6/50
219/50	C 21D 1/40, H 05B 3/0004, B 01J 3/06, H 05B 3/00, C 21D 9/02
219/51	B 21L 3/02, B 21L 11/14, B 23K 11/002, B 23K 11/046, B 23K 11/04
219/52	B 21L 3/02, B 21L 3/00, B 23K 9/0026, B 23K 11/002, B 23K 11/04
219/53	B 23K 2201/26, E 01B 29/46, B 23K 11/0073, B 23K 11/046, B 23K 37/0435
219/54	B 23K 2201/26, B 23K 9/0026, B 23K 9/038, E 01B 11/50, B 23K 9/0213
219/55	B 23K 2201/26, B 23K 11/04, E 01B 29/44, B 23K 9/00, B 23K 9/0026
219/56	B 23K 11/008, B 21F 27/10, B 23K 11/0086, B 21F 27/124, B 23K 11/0026
219/56.1	B 23K 11/0026, H 01J 5/62, H 01R 43/02, B 23K 11/28, B 23K 11/002
219/56.21	H 01L 24/78, H 01L 24/85, H 01L 2924/01079, H 01L 2224/78301, B 23K 20/007
219/56.22	B 23K 20/007, H 01L 24/78, H 01L 24/85, H 01L 2224/78301, H 01L 2224/85045

219/57	B 23K 11/04, B 23K 11/046, B 23K 11/0026, B 23K 11/02, B 23K 11/20
219/58	B 23K 11/008, B 21F 27/10, B 23K 11/0026, B 23K 11/0086, B 21F 27/124
219/59.1	B 23K 11/062, B 23K 11/002, B 23K 2201/06, B 23K 11/0935, B 23K 11/0873
219/60R	B 23K 9/0253, B 23K 9/0282, B 23K 9/0286, B 21C 37/08, B 23K 9/0284
219/60.2	B 23K 9/0288, B 23K 9/0282, B 23K 9/0284, B 23K 9/296, F 28F 9/18
219/61	B 23K 9/0253, B 23K 9/0286, B 23K 2201/06, B 23K 33/004, B 23K 9/0282
219/60A	B 23K 9/0286, B 23K 9/0282, B 23K 37/0533, B 23K 2201/06, B 23K 9/028
219/61.1	B 23K 11/062, B 23K 11/002, B 23K 11/0873, B 23K 11/063, B 23K 11/0876
219/61.11	B 21C 37/0815, B 23K 9/0253, B 23K 11/0873, B 21C 37/08, B 21C 37/0803
219/61.12	B 23K 11/062, B 23D 79/023, B 23K 13/025, B 23K 37/003
219/61.13	B 23K 11/062, B 21C 37/08, B 23K 11/063, B 23K 11/0876
219/61.2	B 23K 13/046, B 23K 13/02, B 21C 37/08, B 21C 37/0811, B 21C 37/0822
219/61.3	B 23K 11/062, B 23K 11/063, B 21C 37/08, B 21C 37/0822, B 23K 11/06
219/61.4	B 23K 11/062, B 23K 9/0352, B 23K 11/06, B 23K 13/02, B 23K 2201/18
219/61.5	B 23K 11/062, B 23K 11/0873, B 23K 11/24, B 23K 13/02, B 23K 13/025
219/61.6	B 23K 11/062, B 21C 37/0826, B 23K 11/24, G 01N 21/37
219/61.7	B 23K 11/062, B 23K 37/003, B 21C 37/08, B 23K 13/046, B 23K 9/0282
219/62	B 23K 11/084, B 21C 37/122, B 23K 9/0325, B

	21C 37/12, B 21C 37/124
219/63	H 01F 38/18, B 23K 11/06, B 23K 11/062, B 23K 11/3045, B 23K 11/31
219/64	B 23K 11/063, B 23K 11/309, B 21D 51/2676, B 23K 2201/12, B 23K 11/0876
219/65	B 23K 11/0873, B 23K 13/046, B 23K 11/04, B 21C 37/08, B 23K 5/06
219/66	B 23K 11/063, B 21C 37/08, B 23K 11/0935, B 23K 11/3036, B 23K 2201/12
219/67	B 23K 13/046, B 23K 11/062, B 23K 11/002, B 23K 13/02, B 23K 11/0873
219/68	A 61M 5/3278, A 61M 2005/3283, B 23K 11/22, B 23K 9/013, B 26F 3/06
219/69.1	B 23K 9/013, B 23K 35/0216, H 01J 37/31, B 23H 7/18, B 23H 11/003
219/69.11	B 23H 1/00, B 23H 7/26, B 23H 11/00, B 23H 11/003, B 23H 9/14
219/69.12	B 23H 7/10, B 23H 7/02, B 23H 7/04, B 23H 7/065, B 23H 7/101
219/69.13	B 23H 1/022, B 23H 1/024, B 23H 1/02, B 23H 7/18, B 23H 7/20
219/69.14	B 23H 1/10, B 23H 1/08, B 23H 1/00, B 23H 7/36, B 23H 7/101
219/69.15	B 23H 1/04, B 23H 7/26, B 23H 7/265, B 23H 9/14, B 23H 1/00
219/69.16	B 23H 7/18, B 23H 1/022, B 23H 7/20, B 23H 7/30, B 23H 1/024
219/69.17	B 23H 9/00, B 23H 1/00, B 23H 9/14, B 23H 1/04, B 23H 7/28
219/69.18	B 23H 1/022, B 23H 1/024, B 23H 7/04, B 23H 1/02, B 23H 7/16
219/69.19	B 23H 1/026, B 23H 1/024, H 02H 7/00, B 23H 1/022, B 23H 1/00
219/69.2	B 23H 7/28, B 23H 1/00, B 23H 7/26, B 23H 7/30, B 23H 9/14

219/70	B 23K 9/013, B 23K 35/0216, B 23K 9/28, B 23K 9/00, B 23K 9/282
219/71	C 21D 1/40, C 21D 1/38, H 05B 3/0009, H 05B 3/60, B 23H 5/00
219/72	B 23K 9/0061, B 23K 9/325, B 23K 9/162, B 23K 11/0006, B 23K 9/164
219/73	B 23K 9/186, B 23K 9/188, B 23K 35/362, B 23K 9/035, B 23K 9/18
219/73.1	B 23K 25/00, B 23K 9/038, B 23K 35/0294, B 23K 35/3603, B 23K 2201/26
219/73.11	B 23K 25/005, B 23K 9/04, B 23K 9/046, B 23K 9/048, B 21D 51/24
219/73.2	B 23K 9/324, B 23K 9/186, B 23K 9/1336, B 23K 35/404, B 23K 9/007
219/73.21	B 23K 9/04, B 23K 9/186, B 23K 9/048, B 23K 9/08, B 23K 9/046
219/74	B 23K 9/173, B 23K 35/383, B 23K 9/325, B 23K 9/164, B 23K 9/167
219/75	B 23K 9/291, B 23K 9/296, H 05H 1/34, B 23K 9/285, B 23K 9/167
219/76.1	B 23K 9/04, B 23K 9/048, B 23K 31/025, B 23P 6/007, B 23K 9/046
219/76.11	B 23K 9/046, B 23K 9/04, B 23K 5/18, B 23K 9/048, C 21C 5/4606
219/76.12	B 23K 9/04, B 23K 9/048, B 23K 35/004, B 23K 9/046, B 22D 7/066
219/76.13	B 23K 11/0013, C 21D 1/09, B 23K 9/04, B 05B 7/0006, B 23H 1/02
219/76.14	B 23K 9/04, B 23K 9/048, B 23K 9/046, B 05B 7/224, B 23K 9/0026
219/76.15	B 23K 9/04, B 23K 35/327, B 23K 9/048, B 23K 10/02, B 23K 31/025
219/76.16	B 05B 7/226, H 05H 1/42, C 23C 4/127, B 05B 7/224, B 23K 10/02
219/76.17	B 23K 9/04, B 23K 11/0013, B 23K 13/00, B 23K

	31/025, B 01D 3/32
219/77	B 23K 31/025, B 23D 65/00, B 23K 1/00, B 23K 9/038, B 23K 9/04
219/78.01	B 23K 11/002, B 23K 11/115, B 23K 11/31, B 23K 1/0004, B 23K 11/0026
219/85.1	B 23K 1/0004, B 23K 1/0008, B 23K 3/00, B 23K 2201/42, B 23K 2203/10
219/85.12	B 23K 1/0053, H 05K 3/3494, B 23K 1/005, H 05K 3/3421, H 05K 13/0465
219/85.13	B 23K 1/0053, H 05K 3/3494, B 23K 1/0056, B 23K 1/008, B 23K 2201/42
219/85.14	B 23K 1/0004, B 23K 3/0307, B 23K 3/00, B 21C 37/08, B 23K 3/08
219/85.15	B 23K 1/0004, H 01L 2924/01079, B 23K 1/0008, B 23K 3/0307, B 23K 2201/36
219/85.16	B 23K 3/0471, H 05K 3/3421, H 05K 3/3494, H 05K 13/0465, B 23K 3/047
219/85.17	B 23K 1/0014, B 23K 1/008, B 23K 2201/02, F 27D 11/02, B 23K 1/0056
219/85.18	H 01L 24/78, B 23K 1/0004, H 01L 21/00, H 01L 21/67144, H 01L 24/85
219/85.19	B 23K 3/087, B 23K 1/0008, H 01R 43/02, B 23K 1/0004, B 23K 3/063
219/85.2	B 23K 1/0008, B 23K 3/03, B 23K 35/24, B 23K 35/262, B 23K 35/30
219/85.21	B 23K 1/0056, B 23K 1/206, B 23K 35/0244, B 23K 2201/40, H 01J 9/142
219/85.22	H 05K 3/3494, B 23K 1/0004, B 23K 3/0475, H 01R 43/0242, H 05B 3/12
219/78.02	H 05B 3/0028, B 23K 11/20, B 23K 11/3081, F 27D 11/02, B 23K 20/16
219/78.11	B 23K 11/0093, B 21D 47/00, B 01D 29/0022, B 01D 29/0029, B 01D 29/0093
219/78.12	B 23K 11/0093, B 21D 47/00, B 23K 11/002, B 23K 11/061, B 23K 2201/045

219/78.13	B 21D 11/02, B 23K 3/0315, B 23K 9/23, B 23K 11/002, B 23K 11/105
219/78.14	B 23K 11/163, B 23K 11/115, B 23K 11/3063, B 23K 11/34, B 23K 11/04
219/78.15	H 01H 11/043, H 01M 2/24, H 01M 2/305, Y 02E 60/12, B 23K 11/3009
219/78.16	Y 02E 60/12, H 01M 2/24, H 01M 2/305, B 23K 11/087, B 23K 11/11
219/79	H 01H 11/043, B 23K 11/002, B 23K 37/047, H 01R 43/02, B 23K 11/0026
219/80	B 23K 11/002, B 23K 11/0033, B 23K 11/31, B 23K 11/08, B 23K 11/093
219/81	B 23K 11/06, B 23K 11/061, B 23K 11/093, B 23K 11/3036, B 23K 11/105
219/82	B 23K 11/061, B 23K 11/0093, B 23K 11/06, B 23K 11/093, B 23K 11/063
219/83	B 23K 11/063, B 23K 11/061, B 23K 11/06, B 23K 11/309, B 23K 11/0093
219/84	B 23K 11/3036, B 23K 11/3045, B 23K 11/366, H 01R 39/646, B 23K 11/062
219/86.1	B 23K 11/002, B 23K 11/31, B 23K 11/14, B 23K 11/314, B 23K 11/11
219/86.21	B 23K 11/28, B 23K 11/31, B 23K 11/314, B 23K 11/115, B 23K 11/002
219/86.22	B 23K 11/115, B 23K 11/0026, B 23K 11/12, B 23K 11/14, B 23K 11/16
219/86.23	B 23K 11/002, B 23K 11/10, B 23K 11/3081, B 21L 3/02, B 23K 11/0033
219/86.24	B 23K 11/002, B 23K 11/314, B 23K 37/047, B 23P 2700/50, B 23K 9/0206
219/86.25	B 23K 11/31, B 23K 11/314, B 23K 11/318, B 23K 11/115, B 23K 11/315
219/86.31	B 23K 11/3018, B 23K 11/314, B 23K 11/3054, B 23K 11/31, B 23K 11/36
219/86.32	B 23K 11/31, B 23K 11/115, B 23K 11/315, B 23K

	11/248, B 23K 11/255
219/86.33	B 23K 11/31, B 23K 11/115, B 23K 11/314, B 23K 11/318, B 23K 11/312
219/86.41	B 23K 11/31, B 23K 11/253, B 23K 11/255, B 23K 11/311, B 23K 11/002
219/86.51	B 23K 11/255, B 23K 11/31, B 23K 11/318, B 23K 11/315, B 23K 11/311
219/86.61	B 23K 11/31, B 23K 11/312, B 23K 11/318, B 23K 11/002, B 23K 11/11
219/86.7	B 23K 11/115, B 23K 11/31, B 23K 11/253, B 23K 11/314, B 23K 11/24
219/86.8	B 23K 11/31, B 23K 11/3072, B 23K 11/3063, B 23K 11/318, H 02K 13/04
219/86.9	B 23K 11/11, B 23K 11/31, B 23K 11/004, B 23K 11/3009, B 23K 11/312
219/87	B 23K 11/312, B 23K 11/002, B 23K 11/093, B 23K 11/115, B 23K 11/008
219/88	B 23K 11/31, B 23K 11/314, B 23K 11/28, B 23K 11/318, B 23K 9/202
219/89	B 23K 11/31, B 23K 11/314, B 23K 11/315, B 23K 11/28, B 23K 11/317
219/90	B 23K 11/28, B 23K 11/314, B 23K 11/317, B 23K 11/3009, B 23K 11/31
219/91.1	B 23K 11/248, B 23K 11/256, B 23K 11/004, B 23K 11/006, B 23K 11/24
219/91.2	B 23K 11/11, B 23K 11/115, B 23K 11/002, B 23K 11/0026, B 23K 11/248
219/91.21	B 23K 11/163, B 23K 11/002, B 23K 11/3009, H 01F 41/10, H 05K 3/328
219/91.22	B 23K 11/002, B 23K 11/04, B 23K 11/105, B 23K 11/115, B 23K 11/163
219/91.23	B 23K 11/002, B 23K 11/115, B 23K 11/0033, B 23K 11/004, B 23K 11/0066
219/92	B 23K 11/14, B 23K 11/163, B 23K 11/18, B 23K 11/34, B 23K 35/226

219/93	B 23K 11/14, B 23K 11/002, B 23K 11/163, B 23K 11/0053, B 23K 9/206
219/94	B 23K 11/002, B 23K 11/14, B 23K 11/0066, B 23K 11/11, B 23K 11/115
219/95	B 23K 9/22, B 23K 11/26, B 23K 9/201, B 23K 11/24, B 23K 9/1081
219/96	B 23K 9/22, B 23K 11/26, B 23K 9/201, B 23K 11/0026, B 23K 9/0026
219/97	B 23K 11/04, B 23K 11/046, B 23K 11/043, B 23K 11/087, B 23K 37/08
219/98	B 23K 9/202, B 23K 9/206, B 23K 9/201, B 23K 9/205, B 23K 11/0053
219/99	B 23K 35/0288, B 23K 9/208, B 23K 9/201, B 23K 9/202, B 23K 9/20
219/100	B 23K 11/04, B 23K 11/043, B 23K 11/246, B 23K 11/046, B 23K 9/22
219/101	B 23K 11/04, B 23K 11/046, B 23K 11/002, B 23K 11/0935, B 23K 37/08
219/102	B 23K 11/061, B 23K 13/02, B 23K 11/046, B 23K 11/24, B 23K 13/043
219/103	B 23K 11/0053, B 23K 11/006, B 21L 99/00, B 23K 11/0026, H 01H 11/043
219/104	B 23K 11/04, B 23K 11/002, B 23K 11/02, B 23K 11/0073, B 23K 11/14
219/105	B 23K 11/002, B 23K 11/04, B 23K 33/006, B 23K 33/00, B 23K 11/14
219/106	B 23K 13/043, B 23K 9/0026, B 23K 11/04, B 23P 6/04, B 21D 39/04
219/107	B 23K 11/002, B 23K 11/0046, B 23K 11/084, B 23K 11/0053, B 23K 11/14
219/108	B 23K 11/24, B 23K 11/248, B 23K 11/252, B 23K 11/251, B 23K 11/241
219/109	B 23K 11/252, B 23K 11/25, B 23K 11/253, B 23K 11/256, B 23K 11/257
219/110	B 23K 11/252, B 23K 11/248, B 23K 11/257, B

	23K 11/25, B 23K 11/256
219/111	B 23K 11/248, B 23K 11/24, B 23K 11/251, B 23K 11/252, B 23K 11/11
219/112	B 23K 11/26, B 23K 11/248, B 23K 11/002, B 23K 11/24, B 23K 11/241
219/113	B 23K 11/26, B 23K 11/248, B 23K 9/1081, B 23K 11/257, B 23K 9/201
219/114	B 23K 11/248, B 23K 11/25, B 23K 11/252, B 23K 11/26, H 05B 7/02
219/115	B 23K 11/24, A 41D 19/0062, B 23K 11/00, B 23K 11/10, B 23K 11/248
219/116	B 23K 11/314, B 23K 11/24, B 23K 11/312, B 23K 11/252, H 01F 30/10
219/117.1	B 23K 11/002, B 23K 11/11, B 23K 11/252, B 23K 11/115, B 23K 11/02
219/118	B 23K 11/20, B 23K 11/18, B 23K 11/34, B 23K 11/11, B 23K 11/185
219/119	B 23K 11/3009, B 23K 35/0205, B 23K 11/30, B 23K 11/3018, B 23K 35/402
219/120	B 23K 11/3018, B 23K 11/31, B 23K 11/3009, B 23K 35/0205, B 23K 11/30
219/121.11	B 23K 9/00, B 23K 15/02, C 21D 9/04, H 05B 7/185, H 05H 1/48
219/121.12	C 23C 16/487, H 05K 1/162, H 05K 2203/0315, H 05K 2203/1142, H 05K 2203/175
219/121.13	B 23K 15/06, B 23K 15/04, H 01J 37/18, B 23K 15/0013, B 23K 15/02
219/121.14	B 23K 15/0046, B 23K 15/0053, B 23K 15/04, B 23K 15/0006, B 23K 15/0013
219/121.15	C 23C 14/30, H 01J 37/3053, H 01J 37/305, C 23C 14/246, C 23C 14/243
219/121.16	C 23C 14/30, C 22B 9/228, C 23C 14/24, F 27B 5/04, H 01J 37/305
219/121.17	H 01J 37/305, C 21D 1/09, H 05H 1/26, A 61C 13/0003, A 61C 13/0006

219/121.18	B 23K 15/085, B 23K 15/08, B 23K 9/035, B 23K 26/18, B 23K 26/381
219/121.19	B 41C 1/05, B 23K 15/08, H 01J 37/3023, H 01J 37/31, B 21B 27/00
219/121.2	B 23K 17/00, H 01L 21/2633, B 23K 15/00, B 23K 15/08, B 41C 1/05
219/121.21	B 23K 15/06, H 01J 37/18, H 01J 37/16, B 01J 3/006, B 41C 1/05
219/121.22	H 01J 37/18, B 23K 15/06, H 01J 37/301, B 23K 15/0046, B 23K 15/04
219/121.23	H 01J 37/3005, B 23K 15/0013, B 23K 26/032, H 01J 37/147, H 01J 37/304
219/121.24	H 01J 37/301, B 23K 15/10, B 23K 15/00, B 23K 17/00, H 01J 37/063
219/121.25	H 01J 37/3174, B 82Y 10/00, H 01J 2237/31776, H 01J 37/3007, H 01J 37/3023
219/121.26	H 01J 37/21, B 23K 15/02, B 23K 15/0013, H 01J 37/3007, H 01J 37/304
219/121.27	H 01J 37/065, B 23K 15/02, H 01J 37/063, H 01J 37/067, H 01J 37/241
219/121.28	B 23K 15/0013, H 01J 37/302, H 01J 37/3045, B 23K 15/04, B 23K 31/027
219/121.29	B 23K 15/02, H 01J 37/3045, B 23K 15/002, G 05B 19/39, G 05B 2219/42251
219/121.3	B 23K 15/02, H 01J 37/304, H 01J 37/3045, B 23K 15/00, B 23K 15/0013
219/121.31	G 05B 19/39, G 05B 2219/34388, G 05B 2219/41457, G 05B 2219/42249, G 05B 2219/42251
219/121.32	B 23K 15/0013, B 23K 15/02, H 01J 37/3045, B 23K 15/002, B 23K 15/04
219/121.33	B 23K 9/324, B 23K 15/10, C 23C 14/30, H 01J 37/077, H 01J 37/21
219/121.34	B 23K 15/02, H 01J 37/304, H 01J 37/243, H 01J 37/241, H 01J 37/3023

219/121.35	B 23K 15/0053, B 23K 15/08, B 23K 15/0013, B 23K 15/0046, B 23K 15/0086
219/121.36	H 05H 1/34, B 23K 10/00, B 23K 10/02, H 05H 1/48, H 05B 7/185
219/121.37	H 05H 1/48, F 23G 2201/301, F 23G 2204/201, F 23G 2206/202, Y 02E 20/12
219/121.38	C 03B 5/005, C 03B 5/025, B 01B 1/005, B 01J 19/088, B 23K 10/00
219/121.39	B 23K 10/00, H 05H 1/34, B 23K 10/006, H 05H 1/36, B 23K 37/0461
219/121.4	H 01L 21/67069, H 01J 37/3244, B 23K 10/00, H 01J 37/32082, H 01J 37/32568
219/121.41	H 05H 1/24, H 05H 1/46, H 01L 21/31116, H 01J 37/321, H 01J 37/32192
219/121.42	C 03C 15/00, H 01J 37/32082, H 01L 21/32137, B 08B 7/0035, C 03C 23/006
219/121.43	H 01J 37/32192, H 05H 1/46, H 01J 37/32082, H 01J 37/321, H 01J 37/32009
219/121.44	B 23K 10/00, B 23K 10/006, H 05H 1/34, A 61B 18/042, B 23K 35/38
219/121.45	B 23K 10/02, H 05H 1/34, B 23K 28/02, B 23K 10/00, B 23K 10/006
219/121.46	B 23K 10/02, B 23K 2201/40, B 23K 10/006, H 05H 1/34, B 23K 9/0061
219/121.47	H 05H 1/42, B 05B 7/226, H 05H 1/34, C 23C 4/127, B 23K 10/027
219/121.48	H 05H 1/34, H 05H 2001/3468, H 05H 2001/3478, H 05H 2001/3442, H 05H 2001/3436
219/121.49	H 05H 1/28, H 05H 1/34, H 05H 2001/3436, H 05H 2001/3478, H 05H 2001/3442
219/121.5	H 05H 1/34, H 05H 2001/3478, H 05H 2001/3468, H 05H 2001/3442, H 05H 2001/3436
219/121.51	H 05H 1/34, H 05H 2001/3468, H 05H 2001/3478, H 05H 2001/3442, B 23K 10/00
219/121.52	H 05H 1/34, H 05H 2001/3442, H 05H 1/30, H 05H

	2001/3436, H 05H 2001/3478
219/121.53	H 05H 1/34, H 05H 2001/3478, H 05H 1/28, B 23K 9/013, B 23K 9/285
219/121.54	H 05H 1/36, B 23K 10/006, B 23K 10/00, H 05H 1/46, H 01J 37/32082
219/121.55	H 05H 2001/3494, B 23K 10/00, H 05H 1/36, H 05H 1/3405, B 23K 10/006
219/121.56	B 23K 10/006, B 23K 9/126, B 23K 7/102, B 23K 9/287, B 23K 7/10
219/121.57	H 05H 1/36, B 23K 10/006, H 05H 2001/3489, H 05H 1/34, H 01J 37/32009
219/121.58	H 01L 21/67103, H 01L 21/67109, B 23K 37/0461, H 01L 21/6833, B 08B 15/00
219/121.59	H 05H 1/34, B 23K 10/00, H 05H 1/24, B 01J 19/088, B 01J 2219/0894
219/121.6	B 23K 26/0639, B 23K 26/0643, B 23K 26/06, B 23K 26/0665, B 23K 26/032
219/121.61	B 23K 26/063, B 23K 26/0635, B 23K 26/0656, B 23K 26/067, B 23K 2201/40
219/121.62	B 23K 26/032, B 23K 26/03, B 23K 26/422, B 23K 26/04, B 23K 26/063
219/121.63	B 23K 26/067, B 23K 26/246, B 23K 26/032, B 23K 26/123, B 23K 26/26
219/121.64	B 23K 26/246, B 23K 2203/04, B 23K 26/3206, B 23K 26/20, B 23K 26/24
219/121.65	H 01L 21/2026, H 01L 21/268, B 23K 26/0656, B 23K 2201/40, B 23K 26/067
219/121.66	B 23K 26/34, B 23K 2201/40, B 23K 1/0056, H 05K 2203/107, C 21D 1/09
219/121.67	B 23K 26/1476, B 23K 26/123, B 23K 26/367, B 23K 26/10, B 23K 26/1405
219/121.68	B 23K 26/0656, B 23K 26/365, B 23K 26/0823, B 23K 26/067, B 23K 26/032
219/121.69	B 23K 26/365, B 23K 26/4075, B 23K 26/4065, B 23K 2201/40, B 23K 26/0656

219/121.7	B 23K 26/381, B 23K 26/067, B 23K 26/0676, B 23K 26/0656, B 23K 26/0846
219/121.71	B 23K 26/381, B 23K 26/388, B 23K 26/383, B 23K 26/386, B 23K 26/0656
219/121.72	B 23K 26/4075, B 23K 26/38, B 23K 26/123, B 23K 2201/40, B 23K 26/367
219/121.73	B 23K 26/0656, B 23K 26/067, B 23K 26/0665, B 23K 26/0807, B 23K 26/0639
219/121.74	B 23K 26/02, B 23K 26/06, B 23K 26/0643, B 23K 26/0807, B 23K 26/0639
219/121.75	B 23K 26/0648, B 23K 26/0639, B 23K 26/0665, B 23K 26/067, B 23K 26/06
219/121.76	B 23K 26/0604, B 23K 26/067, B 23K 26/0613, B 23K 2201/40, B 23K 26/0608
219/121.77	B 23K 26/067, B 23K 26/0673, B 23K 26/0656, B 23K 26/0676, G 11B 5/82
219/121.78	B 23K 26/0884, B 23K 26/10, B 25J 19/0037, B 23K 26/04, B 23K 26/08
219/121.79	B 23K 26/0884, B 25J 19/0037, B 23K 26/02, B 25J 9/046, B 25J 17/0283
219/121.8	B 23K 26/0807, B 23K 26/0738, B 23K 26/08, H 01L 21/2026, B 23K 2201/40
219/121.81	B 23K 26/04, B 23K 26/03, B 23K 26/032, B 23K 26/0635, B 23K 26/0807
219/121.82	B 23K 26/0853, B 23K 26/0838, B 23K 26/422, B 23K 26/10, B 23K 26/0823
219/121.83	B 23K 26/032, B 23K 26/04, B 23K 26/034, B 23K 26/422, B 23K 26/03
219/121.84	B 23K 26/1476, B 23K 26/123, B 23K 26/1405, B 23K 26/1452, B 23K 26/147
219/121.85	C 21D 10/005, B 23K 26/0069, B 23K 26/18, F 01D 5/286, B 23K 1/0056
219/121.86	B 23K 26/12, B 23K 26/123, B 23K 26/427, F 16P 1/06, B 23K 26/127
219/122	B 23K 9/028, B 23K 9/167, B 23K 9/30, B 23K

	9/0035, B 23K 9/02
219/123	B 23K 9/08, B 23K 9/0737, H 05H 1/40, H 05B 7/185, B 23K 9/035
219/124.01	B 23K 9/0671, B 23K 9/073, B 23K 9/00, B 23K 9/02, B 23K 9/0253
219/124.02	B 23K 9/0735, B 23K 9/12, B 23K 7/102, B 23K 9/02, B 23K 9/287
219/124.03	B 23K 9/0735, B 23K 9/12, B 23K 9/0731, B 23K 9/125, B 23K 9/126
219/124.1	B 23K 9/028, B 23K 9/025, B 23K 37/02, B 23K 9/02, B 23K 9/12
219/124.21	B 23K 9/025, B 23K 9/0035, B 23K 37/0408, B 21D 39/03, B 21D 43/00
219/124.22	B 23K 9/02, B 23K 9/028, B 23K 9/127, B 23K 9/0216, B 23K 9/1272
219/124.31	B 23K 37/02, B 23K 9/02, B 23K 9/0256, B 23K 37/0223, B 23K 9/0052
219/124.32	B 23K 9/147, B 23K 9/02, B 23K 9/028, B 23K 9/12, B 23K 9/0253
219/124.33	B 23K 9/0284, B 23K 9/038, B 23K 25/005, B 23K 31/02
219/124.34	B 23K 9/1274, B 23K 9/127, B 23K 9/0956, B 23K 9/1276, B 23Q 35/128
219/124.4	B 23K 9/0026, B 23K 9/028, B 23K 9/02, B 23K 9/025, B 23K 9/0256
219/124.5	B 23K 9/02, B 23K 9/0052, B 23K 9/025, B 23K 9/028, B 23K 9/035
219/125.1	B 23K 9/287, B 23K 9/02, B 23K 9/025, B 23K 9/12, B 23K 9/028
219/125.11	B 23K 9/028, B 23K 9/0286, B 23K 9/0288, B 23K 2201/06, B 23K 9/0282
219/125.12	B 23K 9/30, B 23K 9/0216, B 23K 9/127, B 23K 9/0282, B 23K 9/0286
219/126	B 23K 9/0209, B 23K 9/038, B 23K 9/0206, B 23K 25/00, B 23K 9/028

219/127	B 23K 9/007, B 23K 9/0026, B 23K 9/173, B 23K 9/0043, B 23K 9/125
219/128	C 21D 7/04, B 23K 7/06, B 23K 9/0026, B 23K 9/0061, B 23K 9/013
219/129	B 23K 1/00, B 23K 1/0008, B 23K 9/173, B 23K 35/383, B 23K 3/0384
219/130.01	B 23K 9/0956, B 23K 9/0953, B 23K 9/10, B 23K 9/095, B 23K 31/125
219/130.1	B 23K 9/1006, B 23K 9/1043, B 23K 9/32, B 23K 9/1056, B 23K 9/1068
219/130.21	B 23K 9/0956, B 23K 9/0953, B 23K 9/091, B 23K 9/1062, B 23K 9/10
219/130.31	B 23K 9/1068, B 23K 9/0017, B 23K 9/091, B 23K 9/10, B 23K 9/1006
219/130.32	B 23K 9/1056, B 23K 9/1031, B 23K 9/0732, B 23K 9/092, B 23K 9/1006
219/130.33	B 23K 9/1056, B 23K 9/073, B 23K 9/1006, B 23K 9/091, B 23K 9/0956
219/130.4	B 23K 9/0673, B 23K 9/0738, B 23K 9/0678, B 23K 9/0672, B 23K 9/067
219/130.5	B 23K 9/1062, B 23K 9/0953, B 23K 9/1006, B 23K 9/124, B 23K 9/1087
219/130.51	B 23K 9/091, B 23K 9/092, B 23K 9/1062, B 23K 9/0953, B 23K 9/093
219/132	B 23K 9/1087, B 23K 9/10, B 23K 9/0953, B 23K 9/124, B 23K 9/32
219/133	B 23K 9/1006, B 23K 9/32, B 23K 9/1043, F 02B 63/04, B 23K 9/10
219/134	B 23K 9/1087, B 23K 9/1006, B 23K 9/1031, B 23K 9/0732, B 23K 9/1068
219/136	B 23K 9/32, B 23K 9/123, B 23K 9/328, B 23K 9/1336, B 23K 9/323
219/137R	B 23K 33/004, B 23K 9/035, B 23K 9/0026, B 23K 9/173, B 23K 9/23
219/137PS	B 23K 9/092, B 23K 9/091, B 23K 9/09, B 23K

	9/1043, B 23K 9/125
219/137WM	B 23K 9/23, B 23K 9/16, B 23K 9/173, B 23K 35/3053, B 23K 35/3066
219/137.2	B 23K 9/1336, B 23K 9/32, B 23K 9/124, B 23K 9/1333, B 23K 9/173
219/137.31	B 23K 9/295, B 23K 9/32, B 23K 9/1336, B 23K 9/173, B 23K 9/291
219/137.41	B 08B 15/04, B 23K 9/325, B 23K 9/32, B 01D 46/2418, B 01D 46/42
219/137.42	B 23K 9/291, B 23K 9/173, B 23K 9/295, B 23K 9/285, B 23K 9/323
219/137.43	B 23K 9/295, B 23K 9/291, B 23K 9/328, B 23K 9/32, B 23K 9/123
219/137.44	B 23K 9/295, B 23K 9/123, B 23K 9/291, B 23K 9/122, B 23K 9/1336
219/137.51	B 23K 9/291, B 23K 9/295, B 23K 9/186, B 23K 9/28, B 23K 9/287
219/137.52	B 23K 9/295, B 23K 9/123, B 23K 9/1336, B 23K 9/285, B 23K 9/291
219/137.61	B 23K 9/123, B 23K 9/295, B 23K 9/26, B 23K 9/173, B 23K 9/291
219/137.62	B 23K 9/285, B 23K 9/295, B 23K 9/323, B 23K 9/173, B 23K 9/296
219/137.63	B 23K 9/323, B 23K 9/295, B 23K 9/173, B 23K 9/291, B 23K 9/282
219/137.7	B 23K 9/1336, B 23K 9/173, B 23K 9/133, B 23K 9/295, B 23K 9/124
219/137.71	B 23K 9/125, B 23K 9/124, B 23K 9/1336, B 23K 9/0953, B 23K 9/0731
219/137.8	B 23K 9/0213, B 23K 9/1336, B 23K 9/30, B 23K 9/26, B 23K 9/122
219/137.9	B 23K 9/32, B 23K 9/323, B 23K 9/1336, B 23K 37/02, B 23K 37/0294
219/138	B 23K 9/282, B 23K 9/28, B 23K 9/285, B 23K 9/287, B 23K 9/022

219/139	B 23K 9/282, B 23K 3/0307, B 23K 28/02, B 23K 3/08, B 23K 9/0017
219/140	B 23K 9/282, B 01J 37/00, B 23K 3/08, B 23K 9/007, B 23K 9/1087
219/141	B 23K 9/282, H 01H 15/10, H 01R 11/24
219/142	B 23K 9/282, B 23K 9/28, B 23K 9/285, B 23K 20/06, B 29C 65/36
219/143	B 23K 9/282, B 23K 9/013, B 23K 9/28, H 05B 31/18
219/144	B 23K 9/282, B 23K 9/28, B 23K 9/32, A 61B 18/1402, A 61B 2019/4873
219/145.1	B 23K 35/0261, B 23K 35/40, B 23K 9/24, B 23K 35/0205, B 23K 35/0266
219/145.21	B 23K 35/0205, H 05H 1/34, H 05H 2001/3442, B 23K 9/013, B 23K 35/02
219/145.22	B 23K 35/368, B 23K 35/0266, B 23K 35/3608, B 23K 35/3605, B 23K 35/406
219/145.23	B 23K 35/365, B 23K 35/0261, B 23K 35/0272, B 23K 35/404, B 23K 35/0283
219/145.31	B 23K 35/0261, B 23K 35/365, B 23K 35/40, B 23K 9/0203, B 23K 9/028
219/145.32	B 23K 35/0283, B 23K 35/0261, B 23K 9/14, B 23K 35/0272, B 23K 35/0277
219/145.41	B 23K 35/0261, B 23K 35/0272, B 23K 35/0216, B 23K 35/3607, B 23K 35/365
219/146.1	B 23K 35/3053, B 23K 35/0261, B 23K 35/0266, B 23K 35/3066, B 23K 35/308
219/146.21	B 23K 35/222, B 23K 35/0205, H 05H 1/34, H 05H 2001/3442, B 23K 9/167
219/146.22	B 23K 35/302, B 23K 35/3605, B 23K 35/304, B 23K 35/3602, B 23K 35/365
219/146.23	B 23K 35/368, B 23K 35/308, B 23K 35/3086, B 23K 35/3605, B 23K 35/365
219/146.24	B 23K 35/368, B 23K 35/3053, B 23K 35/3608, B 23K 35/3607, B 23K 35/3073

219/146.3	B 23K 35/368, B 23K 35/3053, B 23K 35/0266, B 23K 35/3602, B 23K 35/3605
219/146.31	B 23K 35/368, B 23K 35/3608, B 23K 35/3607, B 23K 35/0261, B 23K 35/3053
219/146.32	B 23K 35/308, B 23K 35/0266, B 23K 35/368, B 23K 35/3607, B 23K 35/3608
219/146.41	B 23K 35/3086, B 23K 35/365, B 23K 35/0266, B 23K 35/3033, B 23K 35/3605
219/146.51	B 23K 35/327, B 23K 35/0266, B 23K 35/368, B 23K 35/365, C 23C 4/06
219/146.52	B 23K 35/3605, B 23K 35/368, B 23K 35/3602, B 23K 35/3053, B 23K 35/365
219/147	A 61F 9/061, B 23K 9/32, A 61F 9/067, A 61F 9/062, A 61F 9/06
219/148	B 23K 11/366, B 62D 65/02, B 21D 39/034, B 23K 1/19, B 23K 11/002
219/149	B 21D 41/04, B 21J 9/08, B 21D 22/04, B 21D 53/78, B 21J 1/06
219/150R	B 21J 9/08, B 21J 15/08, B 21K 1/466, B 21J 17/02, B 21K 1/46
219/151	B 21J 9/08, B 21K 1/22, B 21J 5/08, B 21K 3/04, B 21K 11/02
219/152	B 21J 9/08, B 21K 1/46, B 21K 25/00, B 21B 45/004, B 21B 2027/086
219/150V	B 21J 15/08, B 21J 15/10, B 21J 15/14, B 21J 15/18, B 23K 11/0066
219/153	B 21F 3/00, B 21D 11/14, B 21F 3/04, B 21F 11/005, B 21F 35/00
219/154	B 21J 9/08, B 21D 22/04, B 22F 3/14, B 30B 15/34, C 21D 7/13
219/155	H 05B 3/0009, C 21D 9/62, C 21D 1/40, C 21D 9/56, B 21B 45/004
219/156	H 05B 3/0004, C 21D 1/40, B 21J 9/08, H 05B 1/023, H 05B 3/00
219/157	H 05B 3/0004, B 21J 15/025, B 21J 15/08, B 23K

	11/115, C 21D 9/00
219/158	B 23K 37/0443, B 23K 37/0426, B 23K 9/035, B 23K 37/04, B 23K 37/047
219/159	B 23K 37/0452, B 23K 9/007, B 23K 9/028, B 23K 9/0282, B 23K 9/18
219/160	B 23K 9/035, B 23K 9/0352, B 23K 9/0356, B 23K 9/038, B 23K 11/002
219/161	B 23K 37/0435, B 23K 9/035, B 23K 37/0426, B 23K 37/0533, B 23K 3/0307
219/162	H 05B 3/0004, C 21D 9/50, G 01N 25/72, A 61M 5/343, B 05B 7/226
219/200	H 05B 3/00, B 64D 15/20, G 01W 1/14, H 05B 3/56, A 47J 37/0611
219/201	H 05B 3/00, E 05B 17/0016, B 64D 15/12, H 05B 2203/003, H 05B 2203/017
219/202	B 60H 1/2225, B 60H 1/2218, B 60S 1/3805, F 24H 3/0429, F 24H 9/1872
219/203	H 05B 3/84, B 32B 17/10036, H 05B 2203/016, B 32B 17/10174, H 05B 3/86
219/204	B 62D 1/065, H 05B 3/34, B 62J 33/00, H 05B 2203/014, B 62K 21/26
219/205	F 01M 5/021, F 02M 1/00, F 02M 2700/435, F 02B 3/06, F 02M 31/125
219/206	F 02M 1/00, F 02M 2700/435, F 02M 31/135, F 02M 31/13, H 05B 3/141
219/207	F 02M 1/00, F 02M 2700/435, F 02M 15/045, F 02M 31/135, F 02M 15/02
219/208	F 02N 19/10, H 05B 3/06, H 05B 3/04, F 01P 11/20, H 05B 3/00
219/209	H 01L 23/345, H 05K 1/0212, H 05K 3/3494, H 01L 24/81, H 01L 2924/14
219/210	H 03H 9/08, H 03L 1/04, G 05D 23/241, H 05B 3/0014, G 05D 23/2401
219/211	H 05B 2203/036, H 05B 3/342, H 05B 2203/017, H 05B 2203/014, H 05B 2203/003

219/212	H 05B 3/342, H 05B 2203/014, H 05B 2203/017, H 05B 2203/003, H 05B 3/56
219/213	F 24D 13/024, H 05B 2214/02, E 04D 13/103, H 05B 3/00, H 05B 2203/017
219/214	H 05B 3/00, A 24F 15/10, B 65D 83/72, A 47F 3/001, A 47J 36/2483
219/215	A 43D 25/20, A 43D 95/20, A 43D 95/22, A 43D 95/24, A 43D 11/12
219/216	G 03G 15/2064, G 03G 15/2078, G 03G 15/2053, H 05B 3/0095, G 03G 15/2007
219/217	H 05B 2203/029, B 60N 2/5685, H 05B 2203/017, H 05B 3/34, A 47C 21/048
219/218	F 25D 21/04, H 05B 3/00, H 05B 3/84, A 47J 36/2483, H 05B 3/68
219/219	H 05B 3/845, A 47G 1/02, B 60R 1/0602, G 02B 7/1815, B 60R 1/088
219/220	F 21V 33/00, F 24C 7/081, F 24H 3/0411, F 21S 48/335, F 21V 29/008
219/221	B 23K 3/0353, B 26F 3/08, B 26F 3/12, H 05B 3/00, B 23K 3/025
219/222	A 45D 4/16, A 45D 1/04, A 45D 2/36, A 45D 1/18, A 45D 2001/008
219/223	A 45D 26/0009, B 26B 19/00, A 45D 26/0038, A 45D 26/0061, B 26B 21/48
219/224	A 45D 4/06, A 45D 4/12, A 45D 2/34, H 05B 3/342, H 05B 2203/009
219/225	A 45D 1/04, A 45D 4/12, A 45D 1/28, A 45D 2001/008, A 45D 2/001
219/226	A 45D 4/06, A 45D 4/12, A 45D 1/04
219/227	H 05B 3/02, B 44B 7/00, H 05B 3/00, H 05B 2203/03, A 01K 11/005
219/228	B 44D 3/168, H 05B 3/00, B 29C 66/861, B 29C 65/18, E 04G 23/006
219/229	B 23K 3/0338, B 23K 3/0353, B 23K 3/025, B 23K 3/0369, H 05B 3/00

219/230	B 23K 1/018, B 23K 3/0615, B 23K 3/0307, B 23K 3/0361, B 23K 3/0476
219/231	B 23K 3/027, B 23K 3/0476, B 23K 3/0615, A 01K 17/00, A 61B 18/082
219/232	B 23K 3/0384
219/233	B 23K 3/0315, B 23K 3/0471, H 05B 3/00, B 23K 3/025, H 05B 2203/03
219/234	B 23K 3/0307, B 23K 1/0004, B 23K 3/0476, B 23K 1/018, B 29C 65/44
219/235	B 23K 3/0315, H 05B 3/02, A 41H 1/06, B 23K 3/03, A 01K 91/18
219/236	B 23K 3/0353, H 05B 3/02, B 23K 3/03, B 23K 3/0338, B 23K 3/0369
219/237	B 23K 3/033, B 23K 3/0361, B 23K 3/0353, B 23K 3/03, B 43K 8/22
219/238	B 23K 3/0353, B 23K 3/0338, B 23K 3/03, B 23K 3/0369, H 05B 3/02
219/239	B 23K 3/0353, B 23K 3/0338, B 23K 3/0361, H 05B 3/02, A 61C 13/0028
219/240	H 05B 3/02, B 23K 3/0338, B 23K 3/0353, B 23K 3/033, A 61C 13/0028
219/241	B 23K 3/033, B 23K 3/0338, G 05D 23/2413, B 23K 3/0353, B 23K 3/0315
219/242	B 23K 3/027, A 45D 4/16, H 05B 3/00, A 45D 1/20, H 05B 2203/03
219/243	B 29C 65/22, B 29C 66/80, B 29C 66/861, B 29C 65/18, H 05B 3/00
219/244	B 29C 65/18, H 05B 3/00, B 29C 66/80, B 29C 66/83413, B 29C 66/83511
219/245	D 06F 75/30, B 29C 65/20, B 29C 66/1122, B 29C 66/43, D 06F 75/28
219/246	H 05B 1/0255, D 06F 79/023, D 06F 79/04, H 05B 6/105, D 06F 75/26
219/247	D 06F 79/026, D 06F 75/26, D 06F 75/28, D 06F 79/023, H 01R 13/703

219/248	D 06F 75/265, D 06F 75/26, H 05B 1/0213, H 01H 37/08, H 05B 1/0225
219/249	D 06F 75/30, D 06F 75/24, D 06F 79/00, D 06F 79/02, A 45D 20/10
219/250	D 06F 75/26, D 06F 75/08, B 29C 65/04, B 29C 65/22, B 29C 66/861
219/251	D 06F 75/26, H 05B 1/0213, D 06F 75/24, D 06F 75/265, D 06F 75/16
219/252	D 06F 75/26, D 06F 75/265, H 05B 1/0213, D 06F 75/28, H 01H 37/12
219/253	D 06F 75/26, H 05B 1/0205, H 01H 37/002, H 05B 1/0216, D 06F 75/18
219/254	D 06F 75/24, D 06F 75/36, D 06F 75/243, D 06F 75/246, D 06F 75/38
219/255	D 06F 75/26, D 06F 75/08, D 06F 75/24, G 03G 15/2003, G 03G 15/2082
219/256	D 06F 75/28, D 06F 75/36, D 06F 75/265, D 06F 75/24, D 06F 75/26
219/257	D 06F 75/26, H 05B 1/0255, H 03K 17/96, D 06F 75/40, D 06F 79/023
219/258	D 06F 75/24, D 06F 75/246, D 06F 75/36, B 23K 1/005, D 06F 75/08
219/259	D 06F 79/023, D 06F 79/026, D 06F 79/04, G 01K 5/62
219/260	F 23Q 7/00, F 23Q 7/22, F 23Q 7/001, A 24F 47/008, F 23Q 2007/004
219/261	F 23Q 7/00, A 24F 15/10, F 23Q 7/04, B 60N 3/14, F 23Q 7/14
219/262	F 23Q 7/00, F 23Q 7/16, B 60N 3/14, F 21K 5/023, B 60N 3/12
219/263	F 23Q 7/00, F 23Q 7/16, B 60N 3/14, B 60Q 3/0236, F 23G 5/10
219/264	F 23Q 7/00, B 60N 3/14, B 29C 45/1782, B 29C 45/2737, B 29C 2045/274
219/265	F 23Q 7/00, B 60N 3/14, B 60Q 3/0236, B 29C

	65/18, B 29C 65/24
219/266	F 23Q 7/00, F 23Q 7/16, A 24F 15/10, B 60N 3/14, B 60Q 3/007
219/267	F 23Q 7/00, B 60N 3/14, F 23Q 7/22, F 23Q 7/001, B 60Q 3/004
219/268	F 23Q 7/16, F 23Q 2/282, F 23Q 7/18, F 23Q 7/00, B 60N 3/14
219/269	F 23Q 7/00, B 60Q 3/0236, B 60N 3/14, B 60Q 3/007, F 23Q 7/20
219/270	F 23Q 7/001, F 23Q 7/00, H 05B 3/141, F 23Q 2007/004, H 05B 2203/027
219/383	H 05B 7/185, G 02B 6/2551, C 03B 29/00, H 05B 3/0004, H 05B 7/08
219/384	B 26F 1/28, A 24C 5/007, A 43D 8/18, B 23K 26/0846, B 26F 1/24
219/385	H 05B 3/00, B 01L 7/00, A 47J 36/2483, A 47J 27/004, H 01L 21/67103
219/386	A 47J 39/006, A 47B 2031/026, A 47B 2031/002, A 47J 36/2483, A 47J 37/0709
219/387	A 45C 11/20, A 47J 47/14, A 47J 47/145, A 47J 41/005, H 05B 2203/028
219/388	B 23K 1/008, A 21B 1/48, A 47J 37/044, F 27B 9/243, H 01L 21/67115
219/389	A 47J 37/047, F 27B 17/00, A 23N 12/10, B 01L 7/00, F 27D 11/02
219/390	H 01L 21/67109, H 01L 21/67115, F 27B 17/0025, C 30B 31/12, C 23C 16/481
219/391	F 24C 14/02, F 24C 15/02, F 24C 15/007, F 24C 7/087, A 47J 37/0623
219/392	F 24C 7/00, F 24C 7/06, F 24C 7/087, A 47J 37/0623, A 47J 37/0629
219/393	F 24C 14/02, F 24C 15/2014, A 47J 37/015, A 47J 37/0623, A 47J 37/0629
219/394	F 24C 7/06, F 24C 7/087, F 24C 15/325, F 24C 15/16, A 21B 1/22

219/395	F 24C 7/06, F 24C 7/00, F 24C 15/16, F 24C 7/087, F 24C 15/08
219/396	F 24C 14/02, A 47J 37/042, A 47J 37/045, A 47J 37/0635, A 47J 39/006
219/397	F 24C 14/02, F 24C 7/087, A 47J 37/015, A 47J 37/0635, C 03B 25/06
219/398	F 24C 7/087, H 05B 1/0208, F 24C 7/08, F 24C 14/02, H 05B 1/0213
219/399	F 24C 7/00, F 24C 15/34, H 01T 19/04, A 47J 39/006, F 24C 7/06
219/400	F 24C 15/325, F 24C 15/322, A 47J 39/003, F 24C 7/087, A 47J 37/0623
219/401	A 21B 3/04, F 24C 15/327, A 47J 27/04, A 47J 27/16, A 47J 39/00
219/402	F 24C 7/06, H 05B 3/66, C 23C 16/46, F 27D 1/0036, F 27D 11/02
219/403	F 24C 7/06, A 47J 37/015, F 24C 7/00, F 24C 7/087, F 27D 11/02
219/404	F 24C 7/06, A 47J 37/041, F 24C 15/16, F 24C 15/166, H 05B 3/06
219/405	H 01L 21/67115, A 47J 37/0635, C 30B 25/105, H 05B 3/0047, C 23C 16/481
219/406	F 27D 11/02, F 24C 7/06, F 24C 14/02, H 05B 3/00, H 05B 3/64
219/407	F 24C 7/06, B 01J 3/06, C 30B 33/00, F 24C 7/08, F 24C 7/087
219/408	F 24C 7/00, A 01G 7/04, A 21B 1/22, A 47J 37/015, A 47J 39/00
219/409	F 24C 7/06, A 61C 13/20, F 24C 15/2014, A 22C 7/0023, A 23B 4/044
219/410	F 26B 3/30, A 45D 44/00, A 47J 27/04, A 47J 37/0635, A 47K 10/06
219/411	H 01L 21/67115, F 24C 7/06, H 05B 3/0076, F 24C 7/087, H 05B 3/0047
219/412	F 24C 14/02, F 24C 15/022, F 24C 7/087, F 24C

	7/08, F 24C 7/082
219/413	F 24C 14/02, F 24C 15/022, F 24C 7/08, F 24C 7/087, H 05B 1/0213
219/414	F 24C 7/08, A 47J 37/0623, A 47J 37/0629, A 47J 37/0835, F 24C 7/087
219/415	A 47J 27/004, F 24C 15/102, A 47J 37/015, H 05B 3/68, A 47J 39/00
219/416	F 24C 15/102, F 24C 15/104, F 24C 15/105, H 05B 3/681, F 24C 7/087
219/417	A 47J 37/015, A 47J 27/004, F 24C 7/08, F 24C 15/102, H 05B 3/00
219/418	F 24C 15/102, F 24C 15/105, A 47J 37/06, A 47J 37/103, F 24C 7/06
219/419	A 47F 3/001, A 47J 27/62, F 24C 1/04, F 24C 7/08, F 24C 15/10
219/420	A 61C 13/20, B 05C 11/1042, B 23K 1/008, B 23K 2201/42, B 29B 13/022
219/421	H 05B 3/00, B 29B 13/022, B 29C 45/2737, B 29C 45/30, B 23K 3/0646
219/422	B 29B 13/022, B 29K 2105/0097, H 05B 3/0014, B 21C 27/00, B 21C 29/02
219/423	H 05B 3/0014, H 05B 1/0205
219/424	B 29C 45/2737, H 05B 3/00, B 29C 45/74, B 29C 2045/274, H 05B 3/42
219/425	H 05B 3/00, C 30B 15/14, C 30B 15/20, G 01N 25/04
219/426	B 29C 45/2737, B 01J 6/005, C 23C 14/243, C 23C 14/26, C 30B 15/14
219/427	B 23K 3/0607, B 29B 13/021, B 29C 45/72, F 27B 17/02, F 27D 1/18
219/428	B 01L 7/52, B 01L 2300/0829, B 01L 3/50851, B 01J 19/0093, B 01J 2219/00788
219/429	A 47J 27/004, A 47J 37/1266, A 23L 1/1815, A 47J 36/12, A 47J 36/2483

219/430	A 47J 36/24, A 47J 36/2405, A 47J 36/2483, A 23L 1/0107, A 47J 27/04
219/431	A 47J 27/0802, A 47J 27/086, A 47J 27/62, A 47J 27/004, A 47J 27/05
219/432	A 47J 27/004, A 47J 36/2483, A 47G 19/2288, A 47J 27/2105, A 47J 36/2461
219/433	A 47J 27/004, A 47J 36/2483, A 47J 36/2433, A 47J 27/62, A 47J 31/4453
219/434	A 47J 27/004, F 24C 7/006, A 01K 39/02, A 47J 31/053, A 47J 36/2483
219/435	A 47J 27/004, A 47J 27/62, H 01H 37/52, H 05B 1/0213, H 05B 3/68
219/436	A 47J 27/004, A 47J 31/053, A 47J 36/2461, A 47J 37/105, A 47J 36/2433
219/437	A 47J 27/004, A 47J 36/2433, A 47J 27/21016, A 47J 27/21166, A 47J 37/1266
219/438	A 47J 27/004, A 47J 37/105, A 47J 27/21041, A 47J 45/061, H 05B 3/68
219/439	A 47J 27/004, A 47J 27/002, A 47J 37/105, A 47J 27/18, A 47J 27/10
219/440	A 47J 27/0817, A 47J 27/004, A 47J 27/04, A 47J 27/0802, A 61C 13/14
219/441	A 47J 31/053, A 47J 27/62, A 47J 27/004, H 05B 1/0213, A 47J 31/047
219/442	A 47J 27/004, A 47J 37/105, H 01H 37/043, H 01R 13/7137, A 47J 31/053
219/443.1	H 05B 3/68, H 05B 3/74, H 01L 21/67103, C 03C 2217/72, F 24C 15/102
219/444.1	H 01L 21/67103, H 01L 21/67109, H 05B 3/143, H 01L 21/67248, H 05B 3/265
219/445.1	H 05B 3/746, F 24C 7/082, F 24C 15/105, H 05B 2213/04, H 05B 3/74
219/446.1	H 05B 3/746, H 05B 2213/07, H 01L 21/67248, A 47J 36/02, A 47J 36/34
219/447.1	H 05B 2213/05, H 05B 3/746, H 05B 3/683, H 05B

	3/68, H 05B 2213/03
219/448.11	H 05B 3/746, H 05B 2213/04, H 05B 3/748, F 24C 15/106, H 05B 2213/07
219/448.12	F 24C 15/106, H 05B 2213/07, H 05B 3/74, H 05B 2213/04, G 05D 23/2422
219/448.13	F 24C 15/105, F 24C 15/106, H 05B 3/746, F 24C 7/087, F 24C 15/14
219/448.14	F 24C 15/105, F 24C 15/104, F 24C 15/106, G 05D 23/24, G 05D 23/242
219/448.15	H 05B 1/0208, F 24C 15/105, H 01H 37/36, G 05D 23/27537, F 24C 15/102
219/448.16	F 24C 15/105, H 05B 1/0213, F 24C 15/106, H 01H 37/14, A 47J 27/62
219/448.17	H 05B 2213/07, F 24C 15/105, H 05B 3/746, H 05B 2213/04, H 05B 3/748
219/448.18	F 24C 15/105, H 05B 1/0213, A 47J 27/21041, A 47J 27/21066, A 47J 37/0611
219/448.19	H 05B 2213/04, H 05B 3/746, H 05B 1/0216, H 05B 3/748, H 01H 37/48
219/449.1	H 05B 3/68, F 24C 15/101, F 24C 15/102, A 47J 36/2483, H 05B 3/72
219/450.1	A 47J 37/0676, A 47J 37/0611, H 05B 3/68, A 47J 37/0709, A 47J 27/004
219/451.1	F 24C 15/102, H 05B 3/68, H 05B 3/748, H 05B 3/72, H 05B 3/76
219/452.11	F 24C 15/102, F 24C 15/104, H 05B 3/74, F 24C 7/082, F 24C 15/101
219/452.12	F 24C 15/102, H 05B 3/74, H 05B 3/748, F 24C 15/101, H 05B 3/744
219/452.13	F 24C 15/102, F 24C 15/30, A 47J 37/0623, A 47J 37/0629, A 47J 37/015
219/453.11	F 24C 15/102, H 05B 3/76, H 05B 3/681, H 05B 3/68, F 24C 15/105
219/453.12	H 05B 3/681, F 24C 15/104, F 24C 15/102, F 24C 15/103, H 05B 3/688

219/453.13	F 24C 15/102, F 24C 15/104, H 05B 3/76, H 01R 23/10, H 05B 3/68
219/453.14	F 24C 15/102, F 24C 15/104, H 05B 3/76, H 05B 3/688, H 05B 3/70
219/453.15	F 24C 15/102, F 24C 15/104, H 05B 3/76, F 24C 15/101, F 24C 15/105
219/454.11	F 24C 15/102, H 05B 3/76, F 24C 15/104, H 05B 3/68, F 24C 15/10
219/454.12	H 05B 3/76, F 24C 15/102, H 05B 3/688, H 05B 3/68, A 47J 45/02
219/455.11	F 24C 15/102, F 24C 15/104, H 05B 3/68, H 05B 3/76, A 47J 37/015
219/455.12	F 24C 15/102, H 05B 3/748, H 05B 3/68, F 24C 15/104, F 24C 15/105
219/456.1	F 24C 15/102, F 24C 15/104, F 24C 15/108, H 05B 3/70, H 05B 3/72
219/457.1	F 24C 15/106, F 24C 15/105, H 05B 1/0266, H 05B 3/74, H 05B 3/746
219/458.1	H 05B 3/68, H 05B 3/00, H 05B 3/70, F 24C 15/104, H 05B 3/748
219/459.1	F 24C 15/104, H 05B 3/76, H 05B 3/06, H 05B 3/744, F 24C 15/102
219/460.1	H 05B 3/748, H 05B 3/74, H 05B 3/746, H 05B 2203/032, F 24C 15/101
219/461.1	H 05B 3/748, H 05B 3/16, H 05B 2203/017, H 05B 3/74, F 24C 15/102
219/462.1	H 05B 3/742, H 05B 3/748, H 05B 3/744, H 05B 2213/04, H 05B 3/74
219/463.1	H 05B 3/76, H 05B 3/48, F 24C 15/102, H 05B 3/748, F 24C 15/106
219/464.1	H 05B 3/76, F 24C 15/106, H 05B 3/688, F 24C 15/104, H 05B 3/48
219/465.1	H 05B 3/748, H 01L 21/67103, H 05B 3/68, H 05B 3/74, F 24C 15/102
219/466.1	H 05B 3/748, H 05B 3/68, H 05B 3/72, H 05B

	, H 05B 2203/013
219/467.1	H 05B 3/688, H 05B 3/748, H 05B 3/72, A 47J 36/2483, H 05B 3/30
219/468.1	H 05B 3/00, H 05B 3/70, A 47J 27/004, H 05B 3/26, H 05B 3/688
219/468.2	H 05B 3/688, H 05B 3/70, H 05B 3/72, H 05B 3/748, H 05B 3/00
219/469	H 05B 3/0095, G 03G 15/2053, D 02J 13/005, G 03G 15/2057, F 28F 5/02
219/470	H 05B 3/0095, D 02J 13/005, B 29C 33/044, G 03G 15/2053, D 01D 10/0445
219/471	G 01K 13/08, G 03G 15/2078, H 05B 3/0095, D 02J 13/005, G 03G 15/2053
219/472	F 24H 6/00, A 01K 39/026, A 47J 37/015, A 47J 37/0611, A 47J 37/0623
219/473	F 21V 33/00, H 05B 3/00, F 24C 7/043, F 24H 3/002, H 05B 3/0033
219/474	F 24C 7/00, A 47J 37/015, F 24C 7/065, F 24C 7/10, F 24C 15/12
219/475	F 24H 3/002, H 05B 3/0014, A 01G 11/00, A 47J 29/02, A 47J 37/015
219/476	A 45D 4/18, B 01L 7/52, B 01L 7/54, B 01L 2200/147, B 01L 2300/0829
219/477	B 60L 1/02, A 47J 37/0611, A 01K 41/04, A 45D 4/16, B 01L 3/50851
219/478	F 24C 7/082, F 24C 7/06, A 47J 27/004, A 47J 37/0605, A 47J 37/0629
219/479	F 24C 7/087, F 24C 7/08, F 24C 7/082, F 24C 13/00, F 24C 15/106
219/480	A 45D 4/06, F 24C 7/08, F 24H 3/002, A 47J 36/2438, A 47J 37/0611
219/481	H 05B 1/0272, H 05B 1/0283, H 05B 3/746, H 05B 2203/014, H 05B 2203/035
219/482	H 01L 21/67248, B 64D 15/12, F 24C 7/082, A 63C 1/30, A 63C 3/00

219/483	F 24C 7/082, F 24C 15/106, G 05D 23/1917, H 05B 3/68, H 05B 3/74
219/484	F 24C 7/087, H 05B 1/0213, H 05B 3/342, F 24C 15/106, G 01N 27/4067
219/485	H 02J 3/14, Y 02B 70/3225, Y 04S 20/222, F 24C 15/106, H 05B 1/0213
219/486	F 24C 15/106, G 05D 23/27511, H 02J 3/14, F 24C 7/08, F 24C 7/087
219/487	F 24C 7/082, A 47J 31/053, F 24C 7/087, A 47J 31/44, A 47J 37/0611
219/488	F 24C 15/106, F 24C 7/08, H 05B 1/0213, H 05B 3/56, A 45D 1/28
219/489	H 05B 1/0213, F 24C 15/106, B 60L 1/02, G 05D 23/241, H 05B 1/0208
219/490	F 24C 7/087, H 05B 6/6435, A 47J 27/62, A 47J 37/1266, B 29C 66/849
219/491	H 05B 1/0225, G 05D 23/1951, F 24C 14/02, G 04C 23/16, G 05D 23/242
219/492	G 05D 23/1951, H 05B 1/0225, A 47J 37/0842, F 24C 7/087, F 24C 7/08
219/493	H 05B 1/0225, A 47J 37/0814, A 47J 27/62, D 06F 58/28, D 06F 2058/2806
219/494	H 01L 21/67248, H 05B 2203/017, H 05B 3/342, H 05B 1/0213, H 05B 2203/003
219/495	H 05B 1/0219, A 47J 37/0611, A 47J 37/0814, B 27D 1/025, G 05D 23/26
219/496	G 05D 23/30, H 05B 1/0208, A 47C 21/048, A 47C 27/085, B 23K 10/02
219/497	G 05D 23/2401, G 03G 15/2003, H 01L 21/67248, G 03G 15/2078, G 05D 23/1917
219/498	G 05D 23/241, G 05D 23/2436, G 05D 23/2206, G 05D 23/2208, G 05D 23/24
219/499	G 05D 23/2401, G 05D 23/2413, G 05D 23/2453, G 05D 23/241, H 05B 3/342
219/500	G 05D 23/2453, H 05B 1/02, H 05B 1/0208, H

	05B 3/342, G 01K 7/40
219/501	G 05D 23/2413, G 05D 23/241, G 03G 15/2003, G 05D 23/2418, G 05D 23/2401
219/502	H 01L 21/67115, H 01L 21/67248, H 05B 3/746, G 01J 5/0003, G 05D 23/2705
219/503	G 05D 23/224, B 23K 9/235, C 01B 33/035, G 05D 23/1904, B 23K 11/248
219/504	G 05D 23/2401, G 05D 23/2453, H 01C 1/1406, H 05B 3/14, H 05B 3/342
219/505	H 05B 2203/02, H 05B 2203/017, H 05B 3/56, H 05B 3/34, G 05D 23/2401
219/506	F 24C 7/082, F 24C 7/087, G 05D 23/1917, H 05B 6/6435, H 05B 6/6441
219/507	H 05B 1/0266, F 24C 15/106, H 01H 37/10, H 01H 37/12, H 01H 37/30
219/508	H 05B 1/0213, F 24C 15/106, H 05B 1/0208, H 05B 3/342, F 24C 7/082
219/509	H 02H 5/10, H 05B 3/84, F 25D 21/04, H 05B 3/00, H 05B 2203/035
219/510	H 05B 1/0213, H 05B 1/0208, A 47J 31/047, A 47J 37/0814, F 24C 7/08
219/511	H 05B 1/0213, G 05D 23/30, H 05B 1/0208, H 05B 2203/014, F 02B 3/06
219/512	H 05B 1/0216, H 05B 1/0213, D 06F 75/26, H 01H 37/50, H 05B 1/0208
219/513	H 05B 1/0208, F 03G 7/06, G 05D 23/27537, H 01H 35/2671, H 05B 1/0211
219/514	H 05B 1/0211, A 47J 37/0842, B 01L 7/02, B 29C 65/18, B 29C 66/80
219/515	H 05B 1/0213, A 01K 63/065, H 05B 1/0208, H 05B 3/347, H 05B 3/80
219/516	A 47J 27/62, B 23K 9/235, F 23Q 7/00, F 24C 7/08, F 24C 15/105
219/517	H 05B 1/0205, H 01H 37/761, A 47J 31/053, H 01H 2037/763, H 01H 2085/0483

219/518	H 05B 3/746, H 05B 6/6464, F 24C 7/08, H 05B 2213/05, H 05B 6/6411
219/519	A 47J 37/0842, H 01H 9/50, H 01H 9/56, H 01H 2009/566, H 02H 1/0015
219/520	H 05B 3/50, H 05B 2203/02, H 05B 3/00, H 05B 2203/017, F 24C 7/06
219/521	H 05B 3/00, A 61L 12/04, A 61L 2/04, B 01L 7/00, A 63B 37/0003
219/522	H 05B 3/84, H 05B 3/86, H 05B 2203/016, B 32B 17/10036, B 32B 17/10761
219/523	H 05B 3/80, A 01K 63/065, H 05B 3/78, H 05B 3/82, H 05B 3/06
219/524	A 47J 37/0611, H 05B 3/342, H 05B 2203/014, A 47J 37/105, H 05B 3/68
219/525	A 47J 37/0611, A 61F 7/007, A 61F 2007/0001, H 05B 3/00, H 05B 3/56
219/526	H 05B 3/84, H 05B 3/00, H 05B 3/06, B 60S 1/026, F 01M 5/021
219/527	H 05B 3/342, H 05B 2203/014, H 05B 2203/017, A 61F 7/007, A 61F 2007/0001
219/528	H 05B 2203/017, H 05B 2203/014, H 05B 3/342, H 05B 2203/003, H 05B 3/56
219/529	H 05B 2203/017, H 05B 3/342, H 05B 2203/014, H 05B 2203/003, H 05B 2203/011
219/530	H 05B 3/50, H 05B 3/00, F 24H 7/002, H 05B 2203/02, H 05B 2203/014
219/531	H 05B 3/00, A 47J 37/08, B 01L 7/00, B 01L 7/02, C 21D 9/00
219/532	H 05B 3/32, H 05B 3/16, F 24C 7/06, A 47J 37/08, F 24H 3/0405
219/533	H 05B 3/80, H 05B 3/00, A 47J 37/103, A 45D 1/20, A 47J 27/21033
219/534	H 05B 3/00, H 05B 3/50, H 05B 3/78, H 05B 3/16, H 05B 3/44
219/535	B 29C 65/34, B 29C 66/5221, H 05B 3/56, B 29C

	66/1122, F 16L 47/03
219/536	H 05B 3/16, H 05B 3/06, H 05B 3/00, A 47J 37/0611, F 24H 3/002
219/537	H 05B 3/00, H 05B 3/16, A 47J 37/08, F 24C 7/043, F 24H 3/002
219/538	H 05B 2203/003, H 05B 2203/017, F 24C 7/065, H 05B 3/06, H 05B 3/141
219/539	H 05B 3/16, H 05B 3/00, H 05B 2203/003, H 05B 2203/017, H 05B 3/342
219/540	H 05B 3/50, F 24H 3/002, H 05B 3/14, F 24H 9/1872, H 05B 3/00
219/541	H 05B 3/06, H 05B 3/141, H 05B 3/48, H 01C 1/1406, H 05B 3/08
219/542	H 05B 3/16, H 05B 2203/017, H 05B 3/06, H 05B 3/748, H 05B 3/00
219/543	H 05B 2203/013, H 05B 2203/017, H 05B 3/265, H 05B 3/26, H 05B 3/84
219/544	H 05B 3/48, H 05B 3/141, B 29C 65/34, H 05B 3/283, H 05B 3/46
219/545	H 05B 2203/017, H 05B 2203/011, H 05B 3/342, H 05B 2203/014, H 05B 2203/005
219/546	H 05B 3/16, H 05B 3/48, H 05B 3/00, H 05B 3/34, H 05B 3/68
219/547	H 05B 3/86, H 05B 3/84, B 32B 17/10174, B 32B 17/10036, H 05B 2203/013
219/548	H 05B 3/146, H 05B 2203/017, H 01C 7/027, H 05B 3/36, H 05B 3/06
219/549	H 05B 3/56, H 05B 2203/017, H 05B 2203/013, H 05B 3/146, H 05B 3/34
219/550	H 05B 3/16, H 05B 3/00, H 05B 3/64, H 05B 3/42, H 05B 3/56
219/551	F 02M 1/00, F 02M 2700/435, F 02M 2700/4376, F 24H 1/103, B 23K 1/0004
219/552	F 01N 3/2026, H 05B 3/12, B 01J 35/0033, H 05B 3/141, H 05B 3/48

219/553	H 01C 7/027, H 05B 3/141, H 05B 3/146, H 05B 3/148, H 05B 3/56
----------------	---

Most statistically relevant CPC Subclasses
H 05B, B 29C, B 23K, H 05K, C 04B, A 47J, C 21D, C 30B, B 01J, G 01K, B 65D, B 01L, H 01J, A 43D, B 21L, H 01L, A 61M, B 23H, H 05H, C 23C, G 05B, F 23G, C 03B, A 61F, B 21D, B 21J, B 21F, B 60H, F 02M, F 02N, G 03G, F 21V, A 45D, B 44D, D 06F, F 23Q, B 26F, F 27B, F 24C, F 26B, G 05D, F 24H, H 01H, A 47L, C 03C