

## Statistical mapping of USPC to CPC for Class 451

| USPC Subclass | Most statistically relevant CPC groups                                 |
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| 451/1         | B 24B 49/04, G 01M 17/024, B 24B 37/013, B 24B 49/165, B 29D 2030/0635 |
| 451/2         | B 24C 1/045, B 26F 3/004, B 24C 3/322, B 24C 7/0046, B 24C 3/062       |
| 451/3         | B 24C 3/18, B 24C 3/22, B 24C 1/04, B 24C 3/062, B 24C 3/083           |
| 451/4         | B 24B 49/00, B 24B 5/04, G 05B 2219/45161, B 24B 49/04, B 24B 49/18    |
| 451/5         | B 24B 49/16, B 24B 37/013, B 24B 37/042, B 24B 49/12, B 24B 49/00      |
| 451/6         | B 24B 49/12, B 24B 37/013, B 24B 37/205, B 24B 49/04, B 24B 37/04      |
| 451/7         | B 24B 37/015, B 24B 49/14, B 24B 55/02, B 24B 57/02, B 24B 37/12       |
| 451/8         | B 24B 49/16, B 24B 37/013, B 24B 49/04, B 24B 49/10, B 24B 49/12       |
| 451/9         | B 24B 49/04, B 24B 49/16, B 24B 37/013, B 24B 49/10, B 24B 37/30       |
| 451/10        | B 24B 49/16, B 24B 37/013, B 24B 49/04, B 24B 37/04, B 24B 47/22       |
| 451/11        | B 24B 49/16, B 24B 41/04, B 24B 51/00, B 24B 5/42, B 24B 37/30         |
| 451/12        | B 24B 47/20, B 23D 59/002, B 24B 27/06, B 24B 49/183, B 28D 5/022      |
| 451/13        | B 24B 47/20, B 23F 5/08, B 23F 23/1218, B 24B 3/021, B 24B 5/167       |
| 451/14        | B 24B 47/20, B 24B 49/16, B 24B 47/04, B 24B 49/04, B 24B 49/00        |
| 451/15        | B 24B 47/203, B 24B 47/20, B 24B 49/04, B 24B 47/04, B 24B 41/005      |
| 451/16        | B 24B 47/04, B 24B 47/20, B 24B 47/203, B 24B 49/18, B 24B 49/183      |

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| 451/17 | B 24B 49/04, B 24B 47/06, B 24B 49/18, B 23Q 15/00, B 24B 5/38       |
| 451/18 | B 24B 47/20, B 24B 49/18, B 24B 3/021, B 24B 3/06, B 24B 3/247       |
| 451/19 | B 24B 47/06, B 24B 47/20, B 24B 49/04, B 24B 49/16, B 24B 49/18      |
| 451/20 | B 24B 47/20, B 24B 47/04, B 24B 47/203, B 24B 49/18, B 24B 7/06      |
| 451/21 | B 24B 49/18, B 24B 49/183, B 24B 53/017, B 24B 49/16, B 24B 53/00    |
| 451/22 | B 24B 49/18, B 24B 49/04, B 24B 49/02, B 24B 49/183, B 24B 5/06      |
| 451/23 | B 24B 47/04, B 24B 47/20, B 24B 5/04, B 24B 19/03, B 24B 37/005      |
| 451/24 | B 24B 49/16, B 24B 47/06, B 24B 47/20, B 24B 47/206, B 24B 21/12     |
| 451/25 | B 24B 49/04, B 24B 47/20, B 24B 5/42, B 24B 49/045, B 23Q 15/02      |
| 451/26 | B 24B 47/20, B 24B 49/16, B 24B 47/06, B 23Q 15/225, B 24B 49/00     |
| 451/27 | B 24B 33/06, B 24B 49/045, B 24B 5/06, B 24B 33/02, B 24B 49/04      |
| 451/28 | B 24B 1/00, B 24B 37/042, B 24B 37/04, B 24B 41/06, B 24B 49/16      |
| 451/29 | B 24C 1/04, B 24B 1/00, B 24B 31/00, B 24B 37/042, A 61F 2/16        |
| 451/30 | B 44C 1/221, B 24C 1/04, B 05D 1/32, B 05D 5/06, B 05D 2202/00       |
| 451/31 | B 44C 1/221, B 24C 1/04, B 24C 1/086, B 44C 1/224, B 44C 5/06        |
| 451/32 | B 24B 31/06, B 24B 31/073, B 24B 31/00, B 24B 31/14, B 24B 31/062    |
| 451/33 | B 24B 31/00, B 29C 37/02, B 24B 31/14, B 29C 2035/165, B 29K 2021/00 |
| 451/34 | B 24B 31/14, B 24B 31/02, B 24B 31/00, B 24B                         |

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|        | 31/073, B 24B 9/107  |
| 451/35 | B 24B 31/14, B 24B 31/00, B 24B 31/06, B 24B 13/0006, B 24B 31/02  |
| 451/36 | B 24B 31/116, B 24B 37/042, C 09K 3/1463, B 24B 37/04, C 09G 1/02  |
| 451/37 | B 24B 1/00, B 24B 37/042, G 11B 5/8404, B 24B 37/04, H 01L 21/3212 |
| 451/38 | B 24C 1/086, B 24C 11/00, B 24C 5/04, B 24C 1/003, B 24C 1/045     |
| 451/39 | B 24C 1/003, B 24C 11/00, B 24C 1/086, B 24C 1/083, B 24C 5/04     |
| 451/40 | B 24C 1/045, B 24C 5/04, B 24C 7/0084, B 24C 11/00, B 24C 5/02     |
| 451/41 | B 24B 37/042, B 24B 37/30, B 24B 37/04, B 24B 37/26, B 24B 37/24   |
| 451/42 | B 24B 13/005, B 24B 13/02, B 24B 13/00, B 24B 13/0012, B 24B 13/01 |
| 451/43 | B 24B 9/14, B 24B 9/148, B 24B 13/005, B 24B 9/146, B 24B 49/02    |
| 451/44 | B 24B 9/065, B 24B 9/10, H 01L 21/02021, B 24B 1/00, B 24B 9/12    |
| 451/45 | B 24B 3/36, B 24D 15/06, B 24D 15/08, B 24B 3/54, B 24B 3/58       |
| 451/46 | B 24B 7/16, B 24B 5/167, B 24B 7/162, B 24B 9/00, B 21B 13/20      |
| 451/47 | B 23F 23/1225, B 23F 5/02, B 23F 19/04, B 23F 9/025, B 23F 19/05   |
| 451/48 | B 24B 19/022, B 24B 3/021, B 24B 19/04, B 24B 3/26, B 24B 3/18     |
| 451/49 | B 24B 5/04, B 24B 1/00, B 24B 5/18, B 24B 5/42, B 24B 5/38         |
| 451/50 | B 24B 11/06, B 24B 11/10, B 24B 11/02, B 24B 11/08, A 63B 45/00    |
| 451/51 | B 24B 33/02, B 24B 5/40, B 24B 19/02, B 24B 5/185, B 24B 23/08     |

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| 451/52 | B 24B 19/06, F 16C 33/64, B 24B 1/00, B 24B 5/185, B 24B 19/02              |
| 451/53 | B 24B 55/02, B 24B 1/00, B 23Q 11/10, B 24B 49/14, B 24D 7/10               |
| 451/54 | B 24B 1/00, B 24B 37/345, H 01L 21/67051, B 24B 7/228, H 01L 21/67219       |
| 451/55 | B 24B 13/0043, B 24B 19/00, A 46D 9/02, B 23D 65/00, B 24B 1/00             |
| 451/56 | B 24B 53/017, B 24B 53/12, B 24B 37/04, B 24B 57/02, B 24B 37/042           |
| 451/57 | B 24B 37/042, B 24B 1/00, B 24B 7/228, B 24B 21/04, B 24B 27/0076           |
| 451/58 | B 24B 1/00, B 24B 7/17, B 24B 19/00, B 24B 19/02, B 29D 30/0633             |
| 451/59 | B 24B 21/04, B 24B 1/00, B 24B 9/00, B 24B 37/04, B 24B 21/00               |
| 451/60 | B 24B 57/02, B 24B 37/04, B 24B 1/04, B 24B 57/00, B 24B 53/017             |
| 451/61 | B 24B 33/02, B 23B 51/101, B 24B 5/40, B 24B 9/00, B 24D 13/10              |
| 451/62 | B 24B 19/12, B 24B 19/125, B 24B 21/16, B 24B 49/00, A 46B 13/001           |
| 451/63 | B 24B 7/17, B 24B 7/16, B 24B 37/04, B 24B 37/30, G 11B 5/8404              |
| 451/64 | B 24B 31/116, B 01F 3/04106, B 01F 3/04496, B 01F 3/04836, B 01F 2003/04858 |
| 451/65 | B 24B 27/0076, B 24B 27/0023, B 24B 5/42, B 24B 7/28, B 24B 21/008          |
| 451/66 | B 24B 37/345, B 24B 37/30, B 24B 37/24, B 24B 57/02, B 24B 21/04            |
| 451/67 | B 24B 37/345, B 24B 37/04, B 24B 41/005, B 24B 57/02, H 01L 21/67219        |
| 451/68 | B 24B 7/12, B 24B 7/22, B 24B 29/005, B 24B 31/0206, B 28B 11/18            |
| 451/69 | B 24B 27/0023, B 24B 49/02, E 01B 31/12, B 08B                              |

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|        | 9/021, B 23B 31/4073   |
| 451/70 | B 28D 1/003, B 28D 5/028, B 24B 7/228, C 03B 33/04, B 24B 9/10   |
| 451/71 | B 23B 39/04, B 24B 3/26, B 24B 5/44, B 24B 21/02, B 24B 27/0092  |
| 451/72 | B 24B 53/017, B 24B 53/12, B 24B 53/00, B 24B 53/02, B 24B 53/14 |
| 451/73 | B 08B 3/02, B 24B 37/34, B 41N 3/04, E 01H 1/103, H 01L 21/67051 |
| 451/74 | B 24B 39/065, B 24B 39/06, B 41N 3/04, B 23Q 3/00, B 23Q 2703/00 |
| 451/75 | B 24C 1/003, B 24C 1/045, B 24C 5/04, B 24C 9/00, B 24C 7/0046   |
| 451/76 | B 24C 3/325, B 24C 3/327, B 08B 9/057, B 24C 3/18, B 24C 3/32    |
| 451/77 | B 24C 3/34, H 01T 21/04, B 24B 31/00, B 24C 3/32, B 24C 9/006    |
| 451/78 | B 24C 3/322, B 24C 1/045, B 24C 1/003, B 24C 1/04, B 24C 1/086   |
| 451/79 | B 24C 1/02   |
| 451/80 | B 24C 3/14, B 24C 3/12, B 24C 3/083, B 24C 3/18, B 24C 3/32      |
| 451/81 | B 24C 3/083, B 24C 3/12, B 24C 3/14, B 24C 3/08, A 01K 43/005    |
| 451/82 | B 24C 3/18, B 24C 3/083, B 24C 3/085, B 24C 3/22, A 01K 43/005   |
| 451/83 | B 24C 3/085, B 24C 3/14, B 24C 3/18, B 24C 3/083, B 24C 3/12     |
| 451/84 | B 24C 3/22, B 24C 3/20, B 24C 3/24, B 24C 3/04, B 24C 3/18       |
| 451/85 | B 24C 3/28, B 24C 3/266, B 24C 3/30, B 24C 3/26, B 24C 3/263     |
| 451/86 | B 24C 3/30, B 24C 3/266, B 24C 9/00, B 24C 3/26, B 24C 3/263     |

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| 451/87  | B 24C 3/065, B 24C 3/067, B 24C 9/003, B 24C 9/006, B 24C 3/06      |
| 451/88  | B 24C 9/006, B 24C 3/065, B 24C 3/067, B 24C 9/00, B 24C 9/003      |
| 451/89  | B 24C 9/00, B 24C 1/003, B 24C 3/06, B 24C 1/04, B 24C 3/04         |
| 451/90  | B 24C 5/02, B 24C 7/0046, A 61C 3/025, B 24C 3/06, B 24C 5/04       |
| 451/91  | B 24C 7/0046, A 61C 3/025, B 24C 5/02, B 24C 5/04, B 24C 5/062      |
| 451/92  | B 24C 3/06, B 24C 3/065, B 24C 3/062, B 24C 3/32, B 24C 3/067       |
| 451/93  | B 24C 5/08, B 05B 7/1486, B 24C 9/006, B 05B 5/00, B 05B 5/032      |
| 451/94  | B 24C 5/068, B 24C 5/00, B 24C 5/06, B 24C 5/066, B 24C 1/04        |
| 451/95  | B 24C 5/068, B 24C 5/06, B 24C 5/062, B 24C 5/066, B 24C 3/04       |
| 451/96  | B 24C 7/00, B 05B 12/00, B 08B 7/00, B 24C 1/00, B 24C 5/06         |
| 451/97  | B 24C 5/062, B 24C 5/06, B 24C 5/068, B 24C 5/064, B 24C 5/066      |
| 451/98  | B 24C 5/062, B 24C 5/06, B 24C 3/065, B 24C 3/067, B 24C 9/003      |
| 451/99  | B 24C 7/0046, B 24C 7/0069, B 24C 7/0053, B 24C 1/003, B 24C 7/0092 |
| 451/100 | B 24C 7/0046, B 24C 7/0069, B 24C 7/00, B 24C 7/0007, B 24C 7/0053  |
| 451/101 | B 24C 5/02, B 24C 7/0046, B 24C 7/0053, B 24C 7/00, B 24C 7/0061    |
| 451/102 | B 24C 5/04, B 24C 5/02, B 24C 7/0084, B 24C 7/0046, B 24C 1/045     |
| 451/103 | A 01K 43/005, B 08B 1/02, B 22C 5/00, B 22C 5/049, B 22C 9/18       |
| 451/104 | B 24B 31/003, B 24B 31/00, B 24B 31/064, B 24B                      |

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|         | 31/116, B 24B 31/12  |
| 451/105 | B 24B 31/00, B 24B 31/10, B 24B 31/16, B 24B 57/00                 |
| 451/106 | B 24B 31/003, B 21B 28/04, B 21D 53/50, B 24B 19/00, B 24B 29/00   |
| 451/107 | B 21C 43/00, B 24B 31/0206, H 01R 39/24, H 01R 43/12               |
| 451/108 | B 24B 31/02  |
| 451/109 | A 01K 43/005, A 43D 95/08, B 24B 7/24, B 24B 21/02, B 24B 35/00    |
| 451/110 | B 24B 7/12, B 24B 29/005, B 24B 57/00, A 01K 43/005, B 24B 1/005   |
| 451/111 | A 01K 43/005, B 24B 19/028, B 24B 33/02, B 24B 37/02, B 24B 37/04  |
| 451/112 | B 24B 19/002, B 24D 15/06  |
| 451/113 | B 24B 31/003, B 24B 31/06, B 24B 31/00, B 24B 31/064, B 24B 31/062 |
| 451/114 | B 23F 19/04, B 24B 3/42, B 23F 19/025, B 23F 23/12, B 24B 15/08    |
| 451/115 | B 24B 15/00, B 24B 15/08, B 24B 1/04, B 24B 11/10, B 24B 15/02     |
| 451/116 | B 24B 15/08, B 24B 15/00, B 24B 19/00, B 24B 33/088                |
| 451/117 | B 24B 15/08, B 24B 15/00, B 24B 15/04, B 23C 3/05, B 24B 27/0069   |
| 451/118 | B 24B 15/00  |
| 451/119 | B 21B 28/04, B 24B 5/045, B 24B 19/16, B 24B 27/0038, B 24B 41/04  |
| 451/120 | B 23F 23/1225, B 24B 7/075, B 23F 5/085, B 24B 3/33, B 24B 19/00   |
| 451/121 | B 23F 9/025, B 23F 23/1225, B 24B 3/60, B 24B 3/607, B 24B 47/16   |
| 451/122 | B 24B 3/55, B 27L 11/005, B 02C 13/2804                            |

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| 451/123 | B 24B 5/366, B 29B 17/0206, B 29D 2030/541, B 29K 2021/00, B 29L 2030/00 |
| 451/124 | B 24B 33/02, B 24B 33/06, B 24B 19/02, B 24B 33/08, B 24B 35/00          |
| 451/125 | B 23D 63/005, B 23F 5/08, B 23F 23/08, B 23Q 1/525, B 23Q 35/102         |
| 451/126 | B 24B 3/38, B 24B 19/26, B 24B 27/0046, B 24B 37/30, B 24B 41/02         |
| 451/127 | B 24B 7/075, B 24B 49/16, B 23Q 11/0021, B 24B 7/005, B 24B 7/02         |
| 451/128 | B 24B 3/55   |
| 451/129 | H 01C 17/245, B 24B 19/022, B 24B 19/024, B 24B 27/0608, B 23D 47/02     |
| 451/130 | B 24B 7/12, B 24B 3/583, B 24B 7/28, B 24B 9/102, B 24B 29/005           |
| 451/131 | B 24B 7/12, A 43D 95/08, B 24B 7/244, B 24B 19/005, B 24B 21/00          |
| 451/132 | B 24B 3/54, B 24D 15/08, B 24B 7/13, B 24B 19/00, B 24B 27/0023          |
| 451/133 | B 24D 15/08, B 24B 3/022, B 24B 3/08, B 24B 3/60, B 24B 5/06             |
| 451/134 | B 23F 5/06, B 23F 23/1262, B 24B 5/047, B 24B 5/06, B 24B 5/185          |
| 451/135 | B 24B 5/06, B 24B 5/08, B 24B 23/08, B 24B 41/002, B 24B 5/46            |
| 451/136 | B 23Q 1/01, B 24B 5/04, B 24B 9/065, B 24B 41/02                         |
| 451/137 | B 23F 5/02, B 24B 7/02, B 24B 3/12, B 24B 47/04, B 24B 19/022            |
| 451/138 | B 24B 5/48, B 23Q 1/4804, B 24B 13/065, B 24B 19/00, B 24B 19/16         |
| 451/139 | B 24B 27/0015, B 24B 27/04, A 46D 9/02, B 23Q 1/489, B 24B 3/003         |
| 451/140 | B 24B 5/06, B 24B 5/18, B 24B 5/185, B 24B 49/18, B 23F 19/04            |



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| 451/141 | B 24B 3/42, A 01D 3/06, A 01D 75/002, A 01D 75/08, B 24B 3/021    |
| 451/142 | B 24B 5/04, B 24B 5/167, B 24B 5/18, B 24B 5/363, B 21B 28/02     |
| 451/143 | B 24B 5/06, B 24B 19/022, B 24B 5/08, B 24B 47/06, B 24B 41/00    |
| 451/144 | B 24B 5/14, B 24B 17/025, B 24B 19/022, B 24B 19/12, B 23Q 16/007 |
| 451/145 | B 24B 5/06, B 24B 47/06, B 24B 49/18, B 24B 5/08, B 24B 5/10      |
| 451/146 | B 24B 5/46, B 24B 9/14, B 24B 7/02, B 24B 7/165, B 24B 47/06      |
| 451/147 | B 23F 1/02, B 23F 5/08, B 23F 23/1225, B 23F 19/05, B 23F 23/006  |
| 451/148 | B 23F 5/04, B 23F 11/00, B 23F 23/12, B 23F 5/22, B 23F 19/007    |
| 451/149 | B 24B 5/025, B 24B 27/0069, B 24B 5/06, B 24B 5/08, B 24B 19/002  |
| 451/150 | B 24B 33/02, B 24B 27/0608, B 24B 33/06, B 24B 47/06, B 24B 3/00  |
| 451/151 | B 24B 33/06, B 24B 33/02, B 24B 47/06, B 24B 33/105, B 24B 27/04  |
| 451/152 | B 24B 3/36, B 24B 23/08, B 23Q 1/012, B 23Q 1/48, B 23Q 9/0014    |
| 451/153 | B 24B 33/022, B 24B 3/003, B 24B 7/224, B 24B 19/02, B 24B 33/02  |
| 451/154 | B 23D 45/006, B 23D 45/021, B 24B 5/04, B 23D 59/007, B 24B 3/02  |
| 451/155 | B 24B 47/16, B 24B 33/02, B 24B 41/04, B 24B 33/08, B 24B 27/00   |
| 451/156 | B 24B 33/02, B 24B 33/06, B 24B 33/105, B 24B 19/09, B 24B 47/14  |
| 451/157 | B 24B 47/16, B 24B 27/02, B 24B 41/04, B 24B 47/12, B 24B 19/06   |
| 451/158 | B 24B 13/02, B 23F 5/065, B 24B 7/224, B 24B                      |

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|         | 19/004, B 24B 41/04  |
| 451/159 | B 24B 13/02, B 24B 13/043, B 24B 27/04, B 24B 11/00, B 24B 13/00   |
| 451/160 | B 24B 7/224, B 24B 7/24, B 24B 3/38, B 24B 7/22, B 24B 7/244       |
| 451/161 | B 23F 5/06, B 23F 5/02, B 23F 19/002, B 23F 5/065, B 23F 7/00      |
| 451/162 | B 24B 35/00, B 24D 15/08, B 24B 13/00, B 24B 13/02, B 24B 19/06    |
| 451/163 | B 24B 19/06, B 24B 13/02, B 24D 15/08, B 24B 35/00, B 24B 13/00    |
| 451/164 | B 24D 15/08, B 24B 35/00, B 24B 23/04, B 24B 3/54, B 24B 3/38      |
| 451/165 | B 24B 1/04, B 28D 5/047, B 24B 35/00, B 06B 3/02, B 06B 3/00       |
| 451/166 | B 24B 7/28, B 24B 29/005, B 23F 19/04, B 24B 3/18, B 24B 13/02     |
| 451/167 | B 24B 35/00, B 24B 5/26, B 24B 7/00, B 24B 7/12, B 24B 7/224       |
| 451/168 | B 24B 21/004, B 24B 5/485, B 24B 21/04, B 24B 35/00, B 24B 9/065   |
| 451/169 | B 24D 15/08  |
| 451/170 | B 24B 35/00, B 24B 19/12, B 24B 13/02, B 24D 15/08, B 23F 19/02    |
| 451/171 | B 24D 15/08, B 24B 3/38, B 24B 3/36, B 24B 3/40, B 24B 13/02       |
| 451/172 | B 24B 35/00, B 24B 5/22, B 24B 5/307, B 24B 5/355, B 24B 7/00      |
| 451/173 | B 24B 35/00, B 24B 5/42, B 24B 19/06, B 24B 3/42, B 24B 5/48       |
| 451/174 | B 24D 15/06, B 24B 27/0015, B 24B 35/00, B 24B 37/042, B 24B 37/26 |
| 451/175 | B 24D 15/063, B 24D 15/06, B 24B 3/18, B 24B 3/36, B 24B 41/06     |

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| 451/176 | B 24B 21/025, B 24D 15/026   |
| 451/177 | B 24B 3/54, B 24B 9/14, B 24B 45/006, B 24D 7/16, B 24B 3/33             |
| 451/178 | B 24B 27/02, B 24B 33/02, B 24B 55/06, B 24B 57/00, B 24B 9/10           |
| 451/179 | B 24B 3/022, B 24B 3/16, B 24B 3/22, B 24B 3/24, B 24B 3/247             |
| 451/180 | B 28D 5/028, B 24B 3/26, B 24B 5/38, B 24B 5/40, B 24B 11/00             |
| 451/181 | B 24B 5/42, B 24B 21/004, B 24B 5/04, B 24B 19/06, B 24B 19/12           |
| 451/182 | B 24B 9/102, B 24B 7/12, B 24B 9/10, B 24B 5/26, B 24B 11/08             |
| 451/183 | B 24B 9/002, B 24B 5/38, B 24B 7/13, D 06C 11/00, B 05C 3/125            |
| 451/184 | B 24B 9/102, B 24B 27/0023, B 24B 7/12, B 24B 29/005, B 24B 19/007       |
| 451/185 | B 24B 27/0069, B 24B 19/002  |
| 451/186 | B 24B 3/52, B 23D 63/12, B 24B 9/10                                      |
| 451/187 | A 61C 3/00, B 23D 63/005, B 23D 63/12, B 24B 3/12, B 24B 3/361           |
| 451/188 | B 24B 7/12, A 43D 95/08, C 14B 1/46, B 24B 19/005, B 24B 9/002           |
| 451/189 | B 24B 5/38, B 24B 5/18, B 24B 5/225, B 24B 5/245, B 24B 5/26             |
| 451/190 | B 24B 5/38, B 24B 9/102, B 24B 9/002, B 24B 27/0023, B 24B 3/485         |
| 451/191 | B 24B 3/485, B 24B 3/48, B 24D 15/08, B 24B 3/36                         |
| 451/192 | B 24D 15/08, B 24B 3/54, B 24B 3/368, B 24B 3/48, B 24D 15/082           |
| 451/193 | B 23B 31/1612, B 23B 31/16129, B 23B 31/16158, B 23B 2270/20, B 24B 3/38 |
| 451/194 | B 24D 15/08, B 24B 3/54, B 24B 3/543, B 24B                              |

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| 451/195 | B 28D 1/041, B 24D 15/08, A 43D 95/08, B 23B 39/167, B 23B 39/22     |
| 451/196 | B 24D 15/08, B 24B 3/38, B 24B 3/46, B 24B 3/48, B 24B 3/54          |
| 451/197 | B 24B 19/00, B 24B 7/10, B 24B 7/12, B 24B 19/006                    |
| 451/198 | B 24B 3/54, A 61B 17/06066, A 61B 2017/00526, B 24B 3/52, B 24B 3/60 |
| 451/199 | B 24B 19/001, B 24B 19/002, B 24B 47/06, B 23F 6/002, B 24B 5/02     |
| 451/200 | B 24B 19/002, B 24B 19/001, B 24B 27/00, B 23F 1/026, B 23F 3/00     |
| 451/201 | B 24B 19/001, B 24D 15/08, B 24B 3/36, B 23D 45/105, B 24B 3/26      |
| 451/202 | B 24D 15/08, B 24B 3/38, A 63C 11/06, B 24B 3/003                    |
| 451/203 | B 24D 15/08, B 24B 3/48, B 24B 3/485                                 |
| 451/204 | B 24D 15/08, B 24B 19/14   |
| 451/205 | B 24D 15/08, B 24B 3/24, B 24B 3/48, B 24B 5/16, B 24B 19/002        |
| 451/206 | B 24B 3/54   |
| 451/207 | B 24B 7/12, B 24B 3/485, B 24B 5/38, B 24B 7/26, B 24B 9/002         |
| 451/208 | B 24B 3/485, B 24B 3/368, B 24B 3/583, B 26D 7/12, B 24B 1/005       |
| 451/209 | B 24B 5/18, B 24B 5/12, B 24B 5/32, B 24B 5/38, B 24B 11/08          |
| 451/210 | B 24B 19/03, B 24B 13/023, B 23F 19/12, B 24B 3/48, B 24B 9/12       |
| 451/211 | B 24B 5/06, B 24B 41/002, B 24B 41/047, B 24B 5/38, B 24B 15/00      |
| 451/212 | B 24B 3/242, B 24B 7/14, B 24B 9/10, B 24B 13/015, B 24B 17/025      |

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| 451/213 | B 24B 47/06, B 24B 19/02, B 24B 47/04, B 24B 7/02, B 24B 33/02        |
| 451/214 | B 23F 5/02, B 24B 3/58, B 23F 1/02, B 24B 3/06, B 24B 19/02           |
| 451/215 | B 24B 3/12, B 24B 7/02, B 24B 17/00, B 24B 19/14, B 24B 27/0046       |
| 451/216 | B 24B 5/167, B 24B 19/26, B 24B 3/30, B 24B 3/26, B 24B 19/14         |
| 451/217 | B 24B 3/22, B 24B 3/242, B 23Q 7/106, B 24B 3/18, B 24B 19/022        |
| 451/218 | B 24B 5/04, B 24B 15/04, B 24B 47/20, B 24B 27/00, B 24B 47/04        |
| 451/219 | B 23F 5/04, B 23F 23/1225, B 23F 1/02, B 23F 23/085, B 23F 23/12      |
| 451/220 | B 24B 3/42, B 24B 3/045, B 24B 19/04, B 24B 3/02, B 24B 19/022        |
| 451/221 | B 24B 5/04, B 24B 47/06, B 24B 47/20, B 24B 5/06, B 24B 47/04         |
| 451/222 | B 24B 19/022, B 24B 49/18, B 24B 3/18, B 23F 13/04, B 23G 1/38        |
| 451/223 | B 24B 47/06, B 24B 5/04, B 24B 47/04, B 24B 47/20, B 24B 3/18         |
| 451/224 | B 24B 3/52, B 24B 41/066, B 24B 3/58, B 24B 3/36, B 24B 3/365         |
| 451/225 | B 24B 3/55  |
| 451/226 | B 24B 19/28, B 24B 9/10, B 24B 3/40, B 24B 41/06, B 24B 3/06          |
| 451/227 | B 24B 19/06, B 29B 17/0206, B 29K 2021/00, B 29L 2030/00, B 24B 3/466 |
| 451/228 | B 24B 19/125, B 24B 3/20, B 24B 9/146, B 24B 41/06                    |
| 451/229 | B 23D 63/001, B 23D 63/003, B 23D 63/12, B 23D 63/16, B 24B 3/365     |
| 451/230 | B 24B 3/55  |

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| 451/231 | B 24B 27/065, B 24B 27/06, B 23D 47/04, B 23D 45/042, B 24B 41/06   |
| 451/232 | B 24D 15/08, B 24B 3/00, B 24B 3/36, B 24B 3/48, B 24B 19/16        |
| 451/233 | B 24B 3/02, B 24B 3/55  |
| 451/234 | B 24B 3/003, B 24B 41/06, B 24D 15/08, B 23D 63/12, B 23D 63/16     |
| 451/235 | B 23F 15/06   |
| 451/236 | B 24B 27/0015, B 24B 27/04, B 24B 55/06, B 24B 9/00, B 24B 27/00    |
| 451/237 | B 24B 17/02, B 24B 17/00, B 24B 3/085, B 24B 17/025, B 24B 17/08    |
| 451/238 | B 24B 17/021, B 24B 17/04, B 23Q 35/20, B 24B 3/085, B 24B 53/081   |
| 451/239 | B 24B 19/12, B 24B 17/025, B 24B 9/105, B 24B 19/10, B 24B 9/14     |
| 451/240 | B 24B 9/14, B 24B 9/146, B 24B 9/144, B 24B 9/148, B 24B 17/10      |
| 451/241 | B 24B 3/54, B 24B 3/003, B 24B 3/543, B 24B 3/38, B 24B 3/36        |
| 451/242 | B 24B 5/18, B 24B 5/307, B 24B 5/22, B 24B 5/30, B 24B 5/225        |
| 451/243 | B 24B 5/04, B 24B 5/18, B 24B 41/062, B 24B 15/04, B 24B 5/00       |
| 451/244 | B 24B 5/355, B 24B 5/18, B 24B 5/307, B 24B 5/35, B 24B 5/185       |
| 451/245 | B 24B 5/355, B 24B 5/18, B 24B 5/22, B 24B 5/225, B 24B 5/38        |
| 451/246 | B 24B 5/42, B 24B 19/06, B 24B 41/065, B 24B 47/06, B 24B 5/04      |
| 451/247 | B 24B 5/32, B 24B 5/025, B 24B 27/0023, B 24B 27/0069, B 24B 41/005 |
| 451/248 | B 24B 3/466   |
| 451/249 | B 24B 5/42, B 24B 5/421, B 24B 47/06, B 24B                         |

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| 451/250 | B 23F 1/023, B 23F 5/04, B 23F 19/052, B 23F 19/06, B 23F 21/035       |
| 451/251 | B 24B 19/12, B 24B 19/08, B 24B 5/42, B 24B 9/107, B 24B 47/12         |
| 451/252 | B 24B 15/04, B 24B 15/00, B 23C 3/05, B 23C 3/058, B 24B 5/18          |
| 451/253 | B 23F 23/10, B 23F 23/12, B 23F 19/05, B 23F 21/03, B 23F 19/052       |
| 451/254 | B 24B 3/466, B 24B 5/366, B 29D 2030/0635, B 29D 30/0633, B 24B 49/165 |
| 451/255 | B 24B 9/14, B 24B 9/146, B 24B 7/245, B 24B 9/10, B 24B 9/20           |
| 451/256 | B 24B 9/14, B 24B 9/142, B 24B 9/146, B 24B 13/00, B 24B 13/02         |
| 451/257 | B 24B 19/03  |
| 451/258 | B 24B 3/466, B 24B 5/46, B 22D 31/00, B 24B 5/366, A 61C 3/06          |
| 451/259 | B 24B 49/16, B 24B 27/00, B 24B 37/04, B 24B 37/26, B 24B 37/30        |
| 451/260 | B 24B 7/244, B 24B 7/24, B 24B 9/102, B 24B 7/242, B 24B 7/12          |
| 451/261 | B 24B 7/24, B 24B 7/26, B 24B 7/165, B 24B 7/17, B 24B 7/247           |
| 451/262 | B 24B 7/17, B 24B 37/08, B 24B 7/228, B 24B 11/06, B 24B 41/04         |
| 451/263 | B 24B 3/54, B 24B 3/36, B 24B 3/38, B 24B 3/40, B 24B 23/02            |
| 451/264 | B 23F 5/06, B 24B 3/361, B 24B 3/60, B 24B 37/08, B 24B 37/102         |
| 451/265 | B 24B 7/17, B 23F 5/02, B 23Q 1/66, B 23Q 7/14, B 24B 3/48             |
| 451/266 | B 24B 7/17, B 24B 5/32, B 24B 7/162, B 24B 7/165, B 24B 7/167          |

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| 451/267 | B 24B 3/54, B 24B 11/06, B 24B 37/022, B 24B 37/08, B 24B 37/28       |
| 451/268 | B 24B 11/10, B 24B 7/17, B 24B 37/08, B 24B 7/228, A 63B 37/0001      |
| 451/269 | B 24B 37/08, B 24B 7/17, B 24B 7/162, B 24B 7/167, B 24B 7/165        |
| 451/270 | B 24B 13/02, B 24B 7/247, B 24B 37/042, B 24B 19/226, B 24B 23/03     |
| 451/271 | B 24B 19/226, B 24B 23/03, B 24B 41/053, B 24B 7/244, B 24B 41/047    |
| 451/272 | B 23F 5/02, B 24B 9/16, B 24B 37/04, G 11B 5/1871, B 23Q 7/00         |
| 451/273 | B 24B 9/16, B 24B 3/38, B 24B 3/52, B 24B 47/04, B 24B 9/10           |
| 451/274 | B 24B 3/045, B 24B 3/02, B 24B 3/18, B 23F 5/02, B 24B 3/00           |
| 451/275 | B 23F 5/06, B 23F 5/02, B 23F 23/003, B 23F 23/08, B 23F 19/002       |
| 451/276 | B 24B 19/28, B 24B 7/16, B 24B 37/105, B 24B 41/06, B 24B 3/247       |
| 451/277 | B 24B 13/02, B 24B 13/043, B 24B 13/0012, B 24B 13/023, B 24B 13/0025 |
| 451/278 | B 24B 9/16, B 24B 19/226, B 24B 23/08, B 24B 9/12, B 24B 41/06        |
| 451/279 | B 24B 9/16, B 24B 41/06, B 24D 15/08, B 24B 7/16, A 61C 19/00         |
| 451/280 | B 24B 27/0015, B 24B 27/0038, B 23D 45/042, B 23K 11/318, B 23Q 1/36  |
| 451/281 | B 24B 13/0012, B 24B 3/34, B 24B 9/14, B 24B 41/066, B 23F 5/02       |
| 451/282 | B 24B 3/54, B 24B 27/02, B 24B 3/52, B 24B 3/546, B 24B 7/08          |
| 451/283 | B 24B 13/02, B 24B 5/18, B 24B 5/36, B 24B 7/162, B 24B 15/04         |
| 451/284 | B 24B 11/06, B 24B 5/26, B 24B 5/04, B 24B                            |



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|         | 5/225, B 24B 5/245   |
| 451/285 | B 24B 37/30, B 24B 37/32, B 24B 53/017, B 24B 57/02, B 24B 37/04   |
| 451/286 | B 24B 37/102, B 24B 37/32, B 24B 37/30, B 24B 53/017, B 24B 37/105 |
| 451/287 | B 24B 37/30, B 24B 37/26, B 24B 57/02, B 24B 37/04, B 24B 53/017   |
| 451/288 | B 24B 37/30, B 24B 37/32, B 24B 49/16, B 24B 37/04, B 24B 41/061   |
| 451/289 | B 24B 37/30, B 24B 49/16, H 01L 21/6838, B 24B 37/04, B 24B 13/00  |
| 451/290 | B 24B 7/16, B 24B 7/10, B 24B 27/0023, B 24B 29/02, B 24B 37/08    |
| 451/291 | B 24B 37/08, B 24B 13/02, B 24B 37/042, B 24B 3/26, B 24B 37/105   |
| 451/292 | B 24B 7/04, B 24B 7/16, B 24B 7/162, B 24B 27/0069, B 24B 7/167    |
| 451/293 | B 24B 3/54, B 26D 1/143, B 26D 7/12, A 63C 11/06, B 24B 3/006      |
| 451/294 | B 24B 47/18, B 24B 47/10, B 24B 41/04, B 23Q 15/10, B 24B 23/02    |
| 451/295 | B 24B 23/026, B 24B 23/02, B 24B 45/006, B 24B 47/14, B 24B 55/00  |
| 451/296 | B 24B 21/00, B 24B 21/04, B 24B 21/002, B 24B 23/06, B 24B 37/04   |
| 451/297 | B 24B 21/18, B 24B 21/00, B 24B 21/20, B 24B 21/14, B 24B 23/06    |
| 451/298 | B 28D 1/124, B 24B 7/24, B 24B 9/065, B 24B 9/102, B 24B 27/0069   |
| 451/299 | B 24B 21/00, B 24B 21/025, B 24B 7/12, B 24B 21/02, B 24B 21/12    |
| 451/300 | B 24B 21/12, B 24B 21/00, B 24B 21/04, B 24B 21/08, B 24B 21/10    |
| 451/301 | B 24B 21/12, B 24B 21/18, B 24B 7/12, B 24B 21/00, B 24B 21/16     |

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| 451/302 | B 24B 21/002, B 24B 3/54, B 24B 21/004, B 24B 21/008, B 24B 21/02     |
| 451/303 | B 24B 21/00, B 24B 21/14, B 24B 21/08, B 24B 21/10, B 24B 21/16       |
| 451/304 | B 24B 21/00, B 24B 21/02, B 24B 21/18, B 24B 21/006, B 24B 21/002     |
| 451/305 | B 24B 21/002, B 24B 21/12, B 24B 21/00, B 24B 21/16, B 24B 21/165     |
| 451/306 | B 24B 21/006, B 24B 21/02, A 43D 95/08, B 24B 21/00, B 21C 37/30      |
| 451/307 | B 24B 21/02, B 24B 21/006, B 24B 21/00, B 24B 21/04, B 24B 5/42       |
| 451/308 | B 24B 27/0023, B 24B 5/025, B 24B 21/00, B 24B 21/02, B 24B 21/006    |
| 451/309 | B 24B 21/08, B 24B 21/165, B 24B 7/28, B 24B 9/007, B 24B 21/00       |
| 451/310 | B 24B 21/00, B 24B 27/0015, B 24B 27/0076, B 24B 21/002, B 24B 21/006 |
| 451/311 | B 24B 21/00, B 24B 21/18, B 24B 21/20, B 24B 23/06, B 24B 21/16       |
| 451/312 | B 24D 15/06, B 24D 15/081, B 21C 43/04, B 24B 3/265, B 24B 3/54       |
| 451/313 | B 24B 21/004, B 24B 21/025, B 08B 1/02, B 21B 28/04, B 24B 7/13       |
| 451/314 | B 24B 21/004, B 24B 19/165, B 24B 21/165, B 08B 1/00, B 08B 1/008     |
| 451/315 | B 24B 5/48, B 24B 5/485, B 24B 19/00                                  |
| 451/316 | B 24D 15/08, B 24D 15/105, B 24B 3/48                                 |
| 451/317 | B 24B 21/004, B 24B 21/02, B 24B 5/42, G 11B 5/82, G 11B 5/8404       |
| 451/318 | B 24D 15/08, G 11B 5/4833, G 11B 5/484, G 11B 5/8404, G 11B 2005/001  |
| 451/319 | B 24D 15/08, B 21C 51/005, B 24B 3/36, B 24B 3/60, B 24B 7/30         |

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| 451/320 | B 24B 19/11, B 24B 19/16, B 24B 35/005, B 24B 37/02, B 24D 15/06    |
| 451/321 | B 24D 15/08, B 24D 15/06, B 24D 15/063, B 24B 3/36, B 24D 15/105    |
| 451/322 | B 24D 15/08, B 24B 3/48, B 24D 15/105                               |
| 451/323 | B 24B 13/02, B 24B 7/186, B 24B 13/023, B 24B 23/04, B 24D 7/06     |
| 451/324 | B 24B 37/08, B 24D 15/08, B 24B 53/12, B 24B 9/065, B 24D 15/105    |
| 451/325 | B 24B 9/065, B 24B 13/0018, B 24B 13/02, B 24B 13/026               |
| 451/326 | B 24B 31/06, B 24B 31/062, B 24B 31/12, B 24B 31/108, B 24B 31/073  |
| 451/327 | B 24B 31/073, B 24B 31/06, B 24B 31/062, B 24B 31/108, B 24B 31/064 |
| 451/328 | B 24B 31/02, B 24B 31/03, B 24B 31/023, B 08B 7/0092, B 24C 3/26    |
| 451/329 | B 24B 31/0218, B 24B 31/033, B 24B 31/023, B 24B 31/02, B 02C 17/14 |
| 451/330 | B 24B 31/14, C 09K 3/1463, B 01J 2/003, B 01J 12/02, B 01J 19/121   |
| 451/331 | B 24B 5/355, B 24B 41/005, B 23Q 7/04, B 24B 41/06, B 65G 47/1407   |
| 451/332 | B 24B 37/345, B 24B 41/005, A 43D 95/26, B 23Q 1/66, B 23Q 7/00     |
| 451/333 | B 24B 41/005, B 23Q 7/18, B 24B 7/162, B 24B 13/0031, B 23Q 1/40    |
| 451/334 | B 23Q 7/04, B 24B 41/005, B 24B 5/355, B 24B 27/0023, B 21B 28/02   |
| 451/335 | B 24B 41/005, B 24B 5/355, B 23Q 7/04, B 23Q 7/18, B 24B 41/061     |
| 451/336 | B 24B 9/102, H 01L 21/6776, H 01L 21/68785, B 23Q 3/183, B 24B 7/12 |
| 451/337 | B 23F 23/04, B 23F 23/12, B 23F 23/1218, B 23Q 7/06, B 23Q 7/106    |

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| 451/338 | B 23Q 1/40, B 24B 5/38, B 24B 7/24, B 23Q 7/055, B 24B 5/35           |
| 451/339 | B 24B 37/345, B 24B 41/005, H 01L 21/68707, B 24B 5/35, B 24B 5/355   |
| 451/340 | B 24B 27/00, B 23Q 11/10, B 24B 27/0092, B 24B 27/02, B 24B 41/00     |
| 451/341 | B 24B 23/024  |
| 451/342 | B 24D 5/16, B 24B 45/00, B 24B 45/006, B 24D 7/16, B 24B 41/04        |
| 451/343 | G 01M 1/36, B 24B 41/042, B 24D 5/165, B 24B 41/04, B 24B 45/00       |
| 451/344 | B 24B 23/02, B 24B 23/04, B 24B 23/00, B 24D 15/04, B 24D 15/023      |
| 451/345 | A 47L 25/02, B 24B 19/007, B 24D 15/023                               |
| 451/346 | B 24B 23/024  |
| 451/347 | E 01B 31/17, B 24B 19/004, E 01B 31/04, B 23D 45/003, B 23D 45/006    |
| 451/348 | B 24B 5/46, B 24B 5/363, B 24B 3/466, B 24B 5/44, B 24B 19/003        |
| 451/349 | B 24B 3/42, B 24B 3/466, B 24D 15/08, B 24B 3/365, B 24B 3/38         |
| 451/350 | B 24B 7/186, B 24B 7/188, B 24B 41/047, B 24B 7/18, B 24B 23/06       |
| 451/351 | B 24B 7/18, B 24B 23/04, B 24B 7/186, A 47L 11/12, A 47L 11/4047      |
| 451/352 | B 24B 7/188, B 24B 7/18, B 24B 23/02, A 47L 11/18, A 47L 11/4041      |
| 451/353 | B 24B 7/186, B 24B 41/047, B 24B 55/102, A 47L 11/4069, A 47L 11/4038 |
| 451/354 | B 24D 15/023, B 24B 55/10, B 24B 7/184, B 24B 7/222, B 24B 23/02      |
| 451/355 | B 24B 23/06, B 24B 55/107, B 24B 21/20, B 24B 21/00, B 24B 21/18      |
| 451/356 | B 24B 23/04, B 24B 23/043, B 24B 23/046, B 24B                        |

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| 451/357 | B 24B 23/03, B 24B 23/04, B 24B 55/105, B 24B 55/10, B 24B 23/00    |
| 451/358 | B 24B 23/02, B 24B 23/028, B 25F 5/02, B 24B 41/04, B 24B 55/052    |
| 451/359 | B 24B 23/02, B 24B 55/102, B 24B 23/028, B 24B 45/006, B 24B 23/026 |
| 451/360 | B 24B 41/04, B 24B 23/005, B 24B 23/028, B 24B 45/00, B 24B 45/006  |
| 451/361 | B 24B 27/02, B 24B 23/024, B 24B 41/04, B 24B 23/005, B 24B 23/02   |
| 451/362 | A 43D 95/08, B 23Q 1/28, B 24B 27/0061, B 24B 27/0076, B 23Q 1/0027 |
| 451/363 | B 24B 27/0084, B 24B 41/00, B 24B 27/00, B 23F 23/1262, B 23Q 5/40  |
| 451/364 | B 24B 37/30, B 24B 19/226, B 24B 41/06, B 24B 23/08, B 24D 15/105   |
| 451/365 | B 24B 41/06, B 23Q 3/063, B 24B 19/226, B 25B 5/14, B 23Q 3/061     |
| 451/366 | B 24B 19/28, B 24B 41/06, B 23B 33/00, B 23F 23/08, B 23Q 1/36      |
| 451/367 | B 24B 41/066, B 24B 41/06, B 24D 15/08, B 24B 3/36, B 24B 3/38      |
| 451/368 | B 24B 9/102, B 24D 15/08  |
| 451/369 | B 24B 41/066, B 24B 41/06, B 24B 3/602, B 24B 3/36, B 24B 3/247     |
| 451/370 | B 24B 19/16, B 24B 41/066, B 24D 15/063, B 24B 3/605, B 24D 15/06   |
| 451/371 | B 24D 15/105, B 24D 15/06, B 24D 15/08, B 24B 41/066, B 23D 63/003  |
| 451/372 | B 24B 3/55  |
| 451/373 | B 24B 3/55  |
| 451/374 | B 24B 41/066, B 24B 3/025, B 24B 3/045, B 24B 3/022, B 24B 3/12     |

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| 451/376 | B 24B 3/247, B 24B 3/24, B 24B 3/26, B 24B 3/28, B 24B 3/30           |
| 451/377 | B 24B 41/066, B 24B 3/36, B 24B 3/34, B 24B 3/343, B 24B 3/38         |
| 451/378 | B 24D 15/105, B 24B 41/06, B 24D 15/06, B 24B 19/226, B 24D 15/08     |
| 451/379 | B 24B 3/024, B 24B 41/06  |
| 451/380 | B 24B 41/066, B 24B 3/247, B 24B 3/34, B 23B 29/06, B 23Q 1/52        |
| 451/381 | B 24B 41/06, B 24B 33/10, B 23B 31/18, B 24B 9/12, B 24B 19/006       |
| 451/382 | B 23B 31/16275, B 24B 19/16, B 24B 41/06, B 24B 41/066                |
| 451/383 | B 24B 41/06, B 24B 3/003, A 63C 3/00, A 63C 3/10, A 63C 11/06         |
| 451/384 | B 24B 13/005, B 24B 9/146, B 24B 13/0057, B 24B 41/061, B 24B 41/06   |
| 451/385 | B 24B 41/06, B 24B 9/146, B 24B 5/02, B 24B 5/04, B 24B 5/50          |
| 451/386 | B 24B 41/06, B 24B 9/08, B 24B 19/226, G 02B 6/3863, B 25B 7/00       |
| 451/387 | B 24B 41/06, B 23Q 3/104, B 23Q 16/007, B 23Q 16/04, B 24B 37/30      |
| 451/388 | B 25B 11/005, B 24B 37/30, B 24B 13/005, H 01L 21/6838, B 24B 37/345  |
| 451/389 | B 24B 9/161, B 24B 9/16, B 24B 9/163, B 24B 41/06, B 23P 5/00         |
| 451/390 | B 24B 13/005, B 24B 13/0057, B 24B 37/30, B 24B 9/146, B 24B 13/0052  |
| 451/391 | A 61C 13/0027, B 23Q 3/103, B 24B 19/16, B 24B 27/0023, B 24B 27/0076 |
| 451/392 | B 23Q 1/34, B 23Q 1/36, B 23Q 15/013, B 24B 1/04, B 24B 7/228         |

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| 451/393 | B 24B 47/04, B 24B 3/38, B 24B 41/06, B 23Q 1/28, B 23Q 1/40       |
| 451/394 | B 24B 41/06, B 23F 1/02, B 24B 19/022, B 24B 3/022, B 24B 3/04     |
| 451/395 | B 24B 47/06, B 23F 23/08, B 23Q 1/4828, B 23Q 1/623, B 23Q 5/26    |
| 451/396 | B 24B 41/066, B 23Q 1/5468, B 24B 3/18, B 24B 3/34, B 24B 9/00     |
| 451/397 | B 24B 41/06, B 24B 41/061, B 24B 5/35, B 24B 37/32, B 24B 37/30    |
| 451/398 | B 24B 37/30, B 24B 37/32, B 24B 41/06, B 24B 41/061, B 24B 41/062  |
| 451/399 | B 24B 5/421, B 24B 5/42, B 23B 31/00, B 23B 33/00, B 24B 5/428     |
| 451/400 | B 24B 19/08, B 23Q 27/006, B 24B 47/04, B 23Q 1/36, B 23Q 1/4809   |
| 451/401 | B 24B 5/025, B 24B 27/0023, B 23B 23/00, B 23B 31/36, B 23Q 1/5468 |
| 451/402 | B 24B 41/06, B 24B 41/068, B 23B 31/025, B 23Q 1/4804, B 23Q 1/70  |
| 451/403 | B 23Q 16/06, B 24B 41/06, B 23Q 16/065, B 24B 3/343, B 23F 23/08   |
| 451/404 | B 24B 41/06, B 23Q 16/028, B 23Q 16/04                             |
| 451/405 | B 23Q 1/48, B 23Q 1/52, B 23Q 1/525, B 23Q 1/5456, B 23Q 3/154     |
| 451/406 | B 24B 41/06, B 24B 3/36, B 24B 41/065, B 24B 55/04, A 43D 95/08    |
| 451/407 | B 24B 5/307, B 24B 5/35, B 24B 41/065, B 24B 5/18, B 23B 23/00     |
| 451/408 | B 24B 41/065, B 23Q 1/76, B 24B 5/307, B 24B 5/35, B 23Q 3/186     |
| 451/409 | B 24B 3/025  |
| 451/410 | B 24B 41/066, B 24B 3/247, B 24B 41/06, A 43D 95/08, B 23Q 1/032   |

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| 451/411 | B 24B 41/06, B 23Q 1/621, B 24B 5/14, B 24B 41/02, B 24B 41/068  |
| 451/412 | B 24B 7/24, B 24B 7/244, B 24B 7/245, B 24B 27/02                |
| 451/413 | B 23Q 1/5437, B 24B 3/18, B 24B 47/10                            |
| 451/414 | B 24B 41/00, B 23Q 1/28, B 23Q 1/4809, B 23Q 1/58, B 23Q 1/522   |
| 451/415 | B 24B 23/08, B 24B 27/0092, B 24B 27/00, B 24B 3/54, B 24B 15/00 |
| 451/416 | B 24B 19/18, D 01G 15/38, D 01G 15/84, B 24B 47/22, B 24B 49/00  |
| 451/417 | B 24B 19/18  |
| 451/418 | H 01R 43/14, B 24B 23/08, B 24B 5/04, B 24B 5/36, B 24B 19/00    |
| 451/419 | B 24B 3/361, B 24B 3/42, B 24B 3/368, B 24B 3/56, B 26F 1/382    |
| 451/420 | A 24C 5/28, B 24B 3/44, B 24B 3/463, A 24C 5/30, B 24B 3/40      |
| 451/421 | B 24B 3/42, B 24B 3/361, B 24B 3/363, B 24B 3/38, A 01F 29/22    |
| 451/422 | B 24B 3/463, B 24B 3/46, B 26D 7/12, B 26D 1/143, B 24B 3/44     |
| 451/423 | B 24B 3/42, B 24B 3/583, B 24B 3/368, A 01D 75/08, B 24B 3/363   |
| 451/424 | B 21B 28/04, B 24B 5/363, B 24B 1/00, B 24B 21/02, B 24B 41/047  |
| 451/425 | B 24B 5/363, B 21B 28/04, B 24B 5/46, A 43D 95/08, B 02C 4/30    |
| 451/426 | B 24B 5/363, B 21B 28/04, B 24B 35/00, B 21B 39/006, B 21C 47/04 |
| 451/427 | B 24B 5/363, B 21B 28/04   |
| 451/428 | B 21B 28/04, B 24B 5/363, B 24B 5/46, B 24D 15/02, B 24B 5/426   |
| 451/429 | E 01B 31/17, B 23D 45/006, B 24B 23/08, E 01B                    |



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|         | 31/175, B 23D 45/042  |
| 451/430 | B 24B 15/00, B 24B 15/02, B 24B 23/08, B 24B 15/03, B 24B 15/04   |
| 451/431 | B 24B 15/00, B 24B 15/02, B 24B 15/04, B 23C 3/055, B 24B 7/16    |
| 451/432 | B 24B 19/16, B 24B 27/00, B 24B 27/0092, D 05B 81/00              |
| 451/433 | B 24B 27/00, B 24B 27/0092, B 24B 3/52, B 24D 5/16, B 24D 9/04    |
| 451/434 | B 24B 3/55, B 24B 47/10, B 08B 1/00, B 24B 3/44, B 24B 45/00      |
| 451/435 | B 24B 27/00, B 24B 27/0092, B 24B 5/42, B 24B 7/16, B 24B 19/00   |
| 451/436 | B 24B 27/00, B 24B 27/0092  |
| 451/437 | B 24B 5/06, B 24B 41/002, B 24B 27/00, B 24B 27/0092, B 24B 5/40  |
| 451/438 | B 24B 3/54, A 47L 7/02, B 24B 3/265, B 24B 3/28, B 24B 3/363      |
| 451/439 | B 24B 23/08, B 24B 9/007, B 24B 15/00, B 24B 5/363, B 24B 7/16    |
| 451/440 | B 24B 23/08, B 24B 41/002, B 24B 5/08, B 24B 15/00, B 23Q 1/28    |
| 451/441 | B 24B 23/08, B 24B 5/425, B 24B 19/28, B 24B 5/423, B 24B 9/007   |
| 451/442 | B 24B 37/32, B 24B 15/08, B 24B 7/24, H 01L 21/30625, B 24B 37/30 |
| 451/443 | B 24B 53/017, B 24B 53/12, B 24D 3/06, B 24D 18/00, B 24B 37/04   |
| 451/444 | B 24B 53/017, B 24B 53/007, B 24B 53/12, B 24B 53/00, B 24B 53/10 |
| 451/445 | B 41J 11/60, B 43L 19/0093, B 43L 13/20, B 43L 13/205             |
| 451/446 | B 24B 57/00, B 24B 57/02, B 24B 37/04, B 24B 57/04, B 24B 1/00    |

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| 451/447 | B 24B 57/00  |
| 451/448 | A 47L 25/02, A 47L 25/06   |
| 451/449 | B 24B 55/02, B 23Q 11/10, B 24B 1/00, B 24B 23/02, B 24B 55/03       |
| 451/450 | B 24B 55/02, B 24D 5/10, B 24B 55/045, B 24D 7/10, B 23D 59/02       |
| 451/451 | B 24B 55/04, B 24B 55/052, B 23Q 11/06, B 23Q 11/08, B 24B 55/05     |
| 451/452 | B 24B 55/04, F 16P 1/02, B 24B 55/045, B 24B 55/05, B 24B 55/052     |
| 451/453 | B 24B 55/06, B 24B 55/12, B 23Q 11/0046, A 61C 19/00, B 23Q 11/0042  |
| 451/454 | B 24B 55/052, B 24B 23/02, B 23Q 11/08, B 28D 7/02, B 23D 59/006     |
| 451/455 | B 24B 55/04, F 16P 1/02, B 23Q 11/08, B 23D 59/02, B 23Q 11/085      |
| 451/456 | B 24B 55/06, B 24B 55/102, A 43D 95/08, B 23Q 11/0046, B 24B 55/10   |
| 451/457 | A 43D 95/08, A 47L 11/4061, A 47L 13/48, B 24B 1/04, B 24B 7/12      |
| 451/458 | B 24D 9/085, B 24B 23/005, B 24B 7/24, B 24B 23/02, B 24B 37/26      |
| 451/459 | B 24D 15/08, C 09K 3/1481  |
| 451/460 | B 24B 13/005, B 24B 7/24, B 24B 13/0052, B 24B 13/0055, B 24B 9/161  |
| 451/461 | B 43L 23/006, B 24D 15/00, B 24D 7/18, B 24D 15/02, B 24D 15/06      |
| 451/462 | B 08B 9/021, B 24B 9/007, A 47L 15/0065, B 01J 3/062, B 01J 2203/061 |
| 451/463 | B 24D 15/081, B 24D 13/10, B 24D 13/04, B 24D 13/16, B 24D 15/08     |
| 451/464 | B 24B 33/08, B 24B 33/086, B 24D 5/06, A 46B 3/08, A 46B 13/001      |
| 451/465 | B 24B 33/08, B 24B 33/084, B 24D 13/16, B 24B                        |

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|         | 5/40, B 24D 13/06   |
| 451/466 | B 24D 13/04, B 24D 13/06, B 24D 13/10, B 24D 13/16, B 24D 13/20     |
| 451/467 | B 24D 9/003, B 24D 13/06, B 24D 9/00, B 24D 9/006, B 24D 9/06       |
| 451/468 | B 24D 13/04, B 24D 13/06, A 01K 43/005, B 24D 13/10, B 24D 13/20    |
| 451/469 | B 24D 13/06, B 24D 13/04, B 24D 13/10, B 24D 13/16, A 46D 1/00      |
| 451/470 | B 24B 33/08, B 24B 33/086, B 24B 33/082, B 24B 33/085, B 24B 33/105 |
| 451/471 | B 24B 33/08, B 24B 33/085, B 24B 33/081, B 23B 31/404, B 23D 77/042 |
| 451/472 | B 24B 33/08, B 24B 33/085, B 24D 9/02, B 23F 21/026, B 24B 9/00     |
| 451/473 | B 24B 33/084, B 24B 33/08, B 24B 33/083, B 24D 15/08                |
| 451/474 | B 24B 33/08, B 24B 33/086, B 24B 33/081, B 24B 33/084, B 24B 33/105 |
| 451/475 | B 24B 33/08, B 24B 33/085   |
| 451/476 | B 24B 33/08, B 24B 33/083, B 24B 33/04, B 24B 33/105, B 24B 5/38    |
| 451/477 | B 24B 33/08, B 24B 33/085, B 24B 33/082, B 24B 33/105               |
| 451/478 | B 24B 33/08, B 24B 33/086, B 24B 33/06, B 24B 33/085, B 24B 33/105  |
| 451/479 | B 24B 33/089, B 24B 33/08, B 21C 47/245, B 24B 5/42, B 24B 5/423    |
| 451/480 | B 24B 33/088, B 24B 33/08, B 24B 33/084, B 24B 33/081, B 24B 33/085 |
| 451/481 | B 24B 33/085, B 24B 33/08, B 24B 33/06, B 24B 33/105, B 24B 33/00   |
| 451/482 | B 24B 33/081, B 24B 5/425, B 24B 5/426, B 24B 5/423, B 24B 33/04    |

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| 451/483 | B 24B 33/08, B 24B 33/081, B 24B 33/084, B 24B 15/00, B 24B 19/006   |
| 451/484 | B 24B 33/08, B 24B 33/084, B 23D 77/08, B 24B 33/025, B 24B 33/081   |
| 451/485 | B 24B 33/08, B 24B 33/084, B 24B 33/081, B 24D 9/02, B 08B 9/0553    |
| 451/486 | B 24D 15/081, B 24D 15/084, B 24D 15/082, B 24D 15/04, B 24D 15/06   |
| 451/487 | B 24B 33/082, B 24D 9/02, B 24B 33/085, B 24D 9/04, B 24B 33/02      |
| 451/488 | B 24D 9/08, B 24D 7/10, B 24B 55/02, B 24D 5/10, B 24D 13/18         |
| 451/489 | B 24D 5/00, B 24D 11/00, B 23D 55/082, B 24B 21/12, B 24D 5/06       |
| 451/490 | B 24D 9/08, B 24D 9/085, B 24D 13/14, B 24D 9/04, B 24D 13/20        |
| 451/491 | B 24D 15/023, A 45D 26/0004, B 43L 23/006, B 24D 15/04, B 24B 23/046 |
| 451/492 | B 24D 15/026, B 24D 15/04, A 47L 13/28, B 08B 9/021, B 23K 11/3063   |
| 451/493 | B 24D 15/026, B 24D 9/06, B 24D 9/006, B 24D 15/02, A 47L 13/286     |
| 451/494 | B 24D 9/085, B 24D 9/10, B 24B 45/00, B 24D 15/023, B 24D 15/00      |
| 451/495 | B 24D 15/04, B 24D 15/023, B 24D 15/00, B 24D 9/02, B 24B 19/26      |
| 451/496 | B 24D 9/04, B 24D 9/006, B 24D 13/06, B 24B 33/08, B 24B 15/00       |
| 451/497 | B 24D 9/04, B 24D 9/02   |
| 451/498 | B 24D 9/04, B 24D 9/00, B 22C 15/20, B 24D 9/02, B 24D 11/00         |
| 451/499 | B 24D 9/04, B 24D 9/02, B 24D 15/023, B 24B 7/28, B 24B 21/20        |
| 451/500 | B 24D 9/04, B 24B 7/188, B 24B 33/085, B 24D 9/02, B 23B 31/201      |

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| 451/501 | B 24D 9/04, B 24B 15/00, B 24D 9/02                                 |
| 451/502 | B 24D 15/023, B 24D 9/04, B 24D 15/04, A 01K 43/005, B 24B 23/046   |
| 451/503 | B 24D 15/023, B 24D 15/04, B 24D 15/02, A 47L 13/286, A 47L 13/29   |
| 451/504 | B 24D 9/02, B 24D 15/023, B 24B 33/085, B 24B 7/28, B 24B 23/005    |
| 451/505 | B 24D 9/02, A 43D 95/08, B 24D 9/08, A 43D 87/00, A 47L 11/164      |
| 451/506 | B 24D 9/02, B 24D 9/00, A 43D 87/00, B 24B 21/14, B 24B 33/085      |
| 451/507 | B 24D 9/02, B 24D 15/04, A 61C 3/06, B 08B 9/021, B 24B 9/007       |
| 451/508 | B 24D 9/085, B 24D 7/16, B 24B 45/006, B 24D 5/16, B 24D 9/08       |
| 451/509 | B 24D 9/085, B 24B 45/006, B 24D 7/16, B 24D 9/08, A 47L 11/164     |
| 451/510 | B 24D 9/085, B 24D 9/08, B 24B 45/00, B 24D 13/08, B 24B 15/00      |
| 451/511 | B 24D 9/08, B 24D 9/085, B 24D 9/00, B 24B 15/00, B 24D 9/04        |
| 451/512 | B 24D 15/023, B 24D 9/04, B 24B 15/00, B 24D 9/00, B 24D 9/08       |
| 451/513 | B 24D 9/085, B 24D 15/023, B 24D 13/147, B 24B 21/04, B 24B 21/08   |
| 451/514 | B 24D 15/023, B 24D 15/04, B 24B 23/04, B 23D 67/00, B 23D 67/12    |
| 451/515 | B 24D 15/023, A 47L 13/286, A 47L 25/08, B 24B 13/01, B 24B 23/046  |
| 451/516 | B 24D 15/023, B 24B 23/04, A 47L 13/286, B 24B 23/046, B 24D 15/04  |
| 451/517 | B 24D 15/023, A 47L 11/4036, A 47K 11/10, A 47L 11/12, A 47L 11/164 |
| 451/518 | B 24D 15/023, B 24B 23/046, B 43L 23/006, B 24B 45/00, B 24D 9/00   |

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| 451/519 | B 24D 15/023, A 47L 11/19, A 47L 11/4041, B 24B 7/188, B 24B 23/04  |
| 451/520 | B 24D 9/04, B 24D 13/20, B 24D 15/02, A 43D 95/20, A 43D 95/22      |
| 451/521 | B 24D 15/023, B 24D 9/085, B 24D 7/16, B 24D 9/04, A 47L 13/286     |
| 451/522 | B 24D 15/023, B 24D 15/02, B 24D 15/04, B 24D 9/04, B 24D 9/085     |
| 451/523 | B 24D 15/04, B 24D 15/023, B 24D 15/00, B 24D 15/02, A 41D 19/01594 |
| 451/524 | B 24D 15/023, B 24D 15/04, B 24D 15/02, B 24B 55/10, B 24D 15/00    |
| 451/525 | B 24D 15/023, B 24D 15/04, B 23D 65/00, B 24D 11/00, B 24D 15/00    |
| 451/526 | B 24B 37/24, B 24B 37/26, B 24B 37/22, B 24D 11/00, B 24D 3/28      |
| 451/527 | B 24B 37/26, B 24D 11/00, B 24B 37/24, B 24D 3/28, B 24D 11/001     |
| 451/528 | B 24B 37/26, B 24D 11/00, B 24B 41/047, B 24D 3/28, B 23D 61/185    |
| 451/529 | B 24D 11/00, B 24D 13/14, B 24B 37/26, B 24D 7/06, B 24D 11/001     |
| 451/530 | B 24B 37/26, B 24D 9/08, B 24D 11/00, B 24B 37/22, B 24D 3/28       |
| 451/531 | B 24D 11/06, B 24D 11/00, B 24D 11/005, B 24D 15/04, B 24D 11/001   |
| 451/532 | B 24D 11/00, B 24B 37/24, A 47L 17/08, B 24D 18/00, B 24B 37/26     |
| 451/533 | B 24B 37/22, B 24D 11/00, B 24D 15/04, B 24B 37/24, B 24B 37/26     |
| 451/534 | B 24D 11/00, B 24D 9/006, B 24B 37/24, B 24D 3/004, B 24D 11/005    |
| 451/535 | B 24D 9/006, B 24D 9/00, B 24D 11/005, B 24D 13/10, B 24D 18/00     |
| 451/536 | B 24D 11/00, B 24D 11/005, B 24D 13/14, B 24D                       |

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|         | 7/04, B 24D 9/08  |
| 451/537 | B 24D 13/08, B 24D 11/00, A 61C 3/06, B 23D 55/082, B 23D 65/00     |
| 451/538 | B 24D 9/085, B 24D 11/00, A 44B 18/00, B 29C 43/222, B 29C 55/06    |
| 451/539 | B 24D 11/00, B 24D 11/005, B 24D 11/008, B 24D 11/02, B 24D 3/004   |
| 451/540 | B 24B 33/086, B 24D 18/00, B 24D 15/02, B 24D 99/005, E 21B 10/5735 |
| 451/541 | B 24D 5/12, B 24D 18/00, B 24D 5/06, B 24D 5/02, B 24D 5/16         |
| 451/542 | B 24D 5/06, B 24D 5/123, B 24D 5/08, B 28D 1/121, B 24D 5/16        |
| 451/543 | B 24D 5/06, B 24D 5/16, B 24D 5/08, B 24D 5/123, B 24D 5/10         |
| 451/544 | B 24D 5/12, B 24D 5/16, B 24D 5/066, B 24D 18/00, B 24D 5/04        |
| 451/545 | B 24D 15/082, B 24D 15/065, B 24D 15/066, B 24D 15/08, A 63C 11/06  |
| 451/546 | B 24D 5/04, B 24D 5/12, B 24D 5/16, B 24D 18/00, B 24D 18/0081      |
| 451/547 | B 24D 7/18, B 24D 5/123, B 24D 5/12, B 28D 1/041, B 23D 61/18       |
| 451/548 | B 24D 7/16, B 24D 7/066, B 24D 7/06, B 24D 7/04, B 24D 7/02         |
| 451/549 | B 24D 15/08, B 24D 15/082, B 24B 3/36, B 24D 15/06, B 24B 3/46      |
| 451/550 | B 24B 13/01, B 24D 7/06, B 24D 7/02, B 24D 7/16, B 24B 13/02        |
| 451/551 | B 24D 7/02, B 24D 7/06, B 24B 7/24, B 24D 7/04, B 24D 7/063         |
| 451/552 | B 24D 15/08, B 24D 15/02, B 24D 15/06, B 24D 15/00, B 24D 15/065    |
| 451/553 | B 24D 15/08, B 24D 15/02, B 24D 15/06, B 24B 37/00, B 24B 37/042    |

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| 451/554 | B 24D 15/06, B 24D 15/02, B 24D 15/08, A 47L 13/22, B 24D 15/023   |
| 451/555 | B 24D 15/08, B 24D 15/081, B 24D 15/06, B 24D 15/084, B 24D 15/063 |
| 451/556 | B 24D 15/08, B 24D 15/10, B 24D 15/02, B 24D 15/061, B 24D 15/082  |
| 451/557 | B 24D 15/02, B 24D 15/08, B 24B 15/00, B 24D 15/00, B 24D 15/04    |
| 451/558 | B 24D 15/066, B 24D 15/06, B 24D 15/02, B 24D 15/063, A 63C 11/06  |
| 451/559 | B 24B 33/08, C 09G 1/02, C 09K 3/1463, B 24B 5/38, B 24B 31/06     |
| 451/900 | B 23F 5/02, B 23F 23/1225, B 23F 23/08, B 23F 1/02, B 23F 19/04    |
| 451/901 | B 24B 35/00, B 24B 33/02, B 24B 33/08, B 24B 19/06, B 24B 5/42     |
| 451/902 | B 24B 19/28, B 24B 5/065, B 23B 5/02, B 24B 7/17, B 24B 23/08      |
| 451/903 | A 01K 43/005, A 23B 5/065, B 23Q 3/183, B 24B 9/065, B 24B 41/067  |
| 451/904 | B 24D 15/026, B 23D 59/002, B 23D 59/008, B 24B 1/00, B 24B 19/028 |
| 451/905 | B 24B 37/08, B 24B 33/08, B 24B 33/085, B 23F 21/00, B 24B 1/00    |
| 451/906 | B 24B 3/003, B 24B 5/06, B 24B 7/12, B 24B 7/13, B 24B 13/02       |
| 451/907 | B 24B 21/004, B 24B 7/12, H 01R 43/14, B 24B 21/02, B 24D 15/026   |
| 451/908 | C 04B 41/53, B 24B 37/046, C 04B 41/009, C 04B 41/91, C 25F 3/16   |
| 451/909 | B 24B 5/38, B 24B 21/025, B 24B 5/18, B 08B 1/02, B 21B 45/06      |
| 451/910 | B 24B 1/04, B 24B 37/04, B 24B 53/017, B 24B 57/02, B 24B 35/00    |
| 451/911 | A 61C 3/06, A 61C 3/02, B 24D 7/16, B 24D 5/16,                    |



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|         | A 61C 1/14   |
| 451/912 | A 43D 95/08, A 43D 37/00, A 43D 87/00, A 43D 8/34, A 43D 8/48        |
| 451/913 | B 24B 19/12, B 24B 17/04, B 24B 19/00, B 24B 19/14, B 24B 1/00       |
| 451/914 | B 24B 1/04, B 24B 41/06, A 46D 9/02, B 24B 7/162, B 24B 7/165        |
| 451/915 | B 24B 47/18, B 23Q 15/10, B 24B 19/022, B 24B 27/0015, B 24D 9/003   |
| 451/916 | A 46D 9/02, B 24B 19/16, A 46D 9/00, A 46D 1/05, B 24B 3/00          |
| 451/917 | B 24B 3/583, B 24B 3/56, B 24B 3/58, B 26D 7/12, A 01B 23/06         |
| 451/918 | B 23Q 1/525, B 23Q 16/007, B 24B 53/12, G 01B 5/242, B 24B 3/045     |
| 451/919 | B 24B 19/09, B 23Q 27/006, B 24B 19/095, B 24B 19/08, B 23Q 35/102   |
| 451/920 | B 24B 5/366, G 01M 17/024, G 01M 1/34, B 29D 2030/0635, B 24B 49/165 |
| 451/921 | B 24B 37/26, B 24B 13/01, B 24D 11/00, B 24B 37/22, B 24B 37/24      |

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| <b>Most statistically relevant CPC Subclasses</b> |
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| B 24B, B 24C, B 44C, B 23F, B 08B, H 01R, B 24D, B 23D, C 10M, G 11B, A 47L, E 01B, B 23Q, B 41J, B 01J, A 01K, A 61C, A 43D, A 46D, B 29D |
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