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		Class Title	Subclass Ranges	
			From	To
Art Unit	1611	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	401	
Art Unit	1612	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	450 484 49	58
Art Unit	1615	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	400 402 451 48 485 61 69 76.1	449 483  502 64 74 78.38
Art Unit	1616	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	123 40 59 600 65 650 900	126 47 60 648 68 724 DIG 16
Class	504	PLANT PROTECTING AND REGULATING COMPOSITIONS	ALL	
Art Unit	1617	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	75	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1618	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	1.11	10.4
Class	534	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	10	16
Art Unit	1619	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	84	
Art Unit	1621	-----		
Class	534	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	FOR 000	
Class	987	ORGANIC COMPOUNDS CONTAINING A Bi, Sb, As, OR P ATOM OR CONTAINING A METAL ATOM OF THE 6TH TO 8TH GROUP OF THE PERIODIC SYSTEM	FOR 000	
Art Unit	1622	-----		
Class	552	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	259	
Art Unit	1623	-----		
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	50	



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		Class Title	Subclass Ranges	
			From	To
Art Unit	1625	-----	-----	-----
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	105 190 205 209 210.06 210.08 211.07 216 217.09 258.1 285 295 300 309 316 326 331 333 344 347 349 439 639 671 730 74 810 82 88	286 303 327
Class	540	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	465	483
Class	546	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	549	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1626	-----	-----	-----
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	113 143 211.03 217.08 217.1 24 254.01 254.1 36 371 377 382 429 434 471 479 488 501 660 779 800 940 95	
Class	534	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	550	DIG 10
Class	548	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	558	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	987	ORGANIC COMPOUNDS CONTAINING A Bi, Sb, As, OR P ATOM OR CONTAINING A METAL ATOM OF THE 6TH TO 8TH GROUP OF THE PERIODIC SYSTEM	1	368

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1629	-----	-----	-----
-----				
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	649	
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	1	
			106	112
			114	116
			118	142
			145	189
			191	196
			198	204
			206	208
			210.01	210.05
			210.07	
			210.09	210.21
			211.02	
			211.04	
			211.06	
			211.08	
			211.1	212.02
			212.04	215
			217	217.05
			217.07	
			217.11	218
			220	222.2
			223.2	223.8
			224.5	226.5
			227.2	245
			247	253.13
			254.02	254.09
			254.11	255.01
			255.03	257
			259.1	259.31
			259.41	260.1
			262.1	264.11
			266.21	284
			287	294
			296	299
			304	308
			310	315
			317	324
			328	330
			332	
			334	343
			345	346
			348	
			350	370
			372	376
			378	381

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1631	-----	-----	-----
Class	702	DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING	19	21
Class	703	DATA PROCESSING: STRUCTURAL DESIGN, MODELING, SIMULATION, AND EMULATION	11	12
Art Unit	1632	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	570	
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	325 69.5 69.8 91.33	69.52 69.9
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	23.1 23.5	
Class	800	MULTICELLULAR LIVING ORGANISMS AND UNMODIFIED PARTS THEREOF AND RELATED PROCESSES	3 FOR 100	25
Art Unit	1633	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	93.2	93.21
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	320.1 455 458 463	
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	44 R	
Art Unit	1634	-----		
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	6.1 6.14 FOR 237	6.11 6.18
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	24.1	24.33
Art Unit	1636	-----		
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	252.3 254.11 337	252.35 254.9 338

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1637	-----	-----	-----
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	6.12	
Art Unit	1639	-----		
Class	506	COMBINATORIAL CHEMISTRY TECHNOLOGY: METHOD, LIBRARY, APPARATUS	1 41	32 43
Art Unit	1641	-----		
Class	930	PEPTIDE OR PROTEIN SEQUENCE	FOR 000	
Art Unit	1642	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	137.1 155.1 278.1 800 806	138.1 156.1 280.1 801 809
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	330 344 449 459 464 471 7.23	344.1 454 462 467 490
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	22	
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	389.7 860	868
Art Unit	1643	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	131.1 174.1 178.1 181.1 277.1	136.1 179.1
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	387.3 387.7 388.8	388.85



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		Class Title	Subclass Ranges	
			From	To
Art Unit	1644	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	139.1 152.1 171.1 175.1 275.1 804 811	143.1 154.1 173.1  276.1 805
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	327 331 343 345 FOR 123 FOR 207	329  343.2  FOR 205 FOR 236
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	19.1 9.3	
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	386 387.5 387.9 388.5 388.7 388.9 389.6	387.2  388.35 388.75 389.3

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1645	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	144.1	
			146.1	
			150.1	151.1
			157.1	
			163.1	170.1
			176.1	177.1
			180.1	
			182.1	184.1
			190.1	191.1
			193.1	197.11
			200.1	201.1
			234.1	274.1
			282.1	283.1
			802	803
			810	
			812	
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	823	832
			257.2	
			317.1	
			332	333
			340	
			342	
			7.22	
			7.3	7.4
			821	
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	388.4	
			388.6	
			389.5	
			389.8	
			390.5	391.5
			391.9	394
			800	859

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1646	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	145.1 158.1	
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	85.1 334	85.7 336
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	10.7 11.3 12.4 12.7 16.1 16.4 18.3 18.9 20.6 21.2	10.8 11.5
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	5.1 5.3 5.8 7.5 8.5 9.4 FOR 000 350 395 397	5.9 8.2 9.2 10.3 351
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	23.2 23.51	23.4
Class	930	PEPTIDE OR PROTEIN SEQUENCE	140 50 90	145
Art Unit	1647	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	130.1 185.1 198.1	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1648	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	147.1 159.1 186.1 199.1 202.1 281.1 813	149.1 162.1 189.1  233.1  822
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	235.1 339 456 5	239 339.1 457
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	389.4 390.1	
Art Unit	1649	-----		
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	17.3 5.2 8.3	18.2  8.4
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	400 402	403
Class	800	MULTICELLULAR LIVING ORGANISMS AND UNMODIFIED PARTS THEREOF AND RELATED PROCESSES	FOR 000 FOR 104	
Art Unit	1652	-----		
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	183 71.1 94	234 71.2 171
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	396	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1653	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	93.1 93.3 FOR 000	122
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	1.1 173.1 242 252.4 255.1 257.3 326 346 361 70.1 71.3 8 803 815 818 822 92	2 182 252.2 254.1 257.1 261 357 408 70.5 90 68.1 804 816 948 93
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	FOR 000	
Art Unit	1654	-----		
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	FOR 100	FOR 128
Art Unit	1655	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	520 571 725	569 583 780

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1656	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	192.1	
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	69.2	69.4
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	352	385
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	401	404
Class	930	PEPTIDE OR PROTEIN SEQUENCE	404	427
			23.6	23.74
			10	40
			100	130
			150	DIG 822
			60	80
Art Unit	1657	-----		
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	820	
Art Unit	1658	-----		
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	311	
Art Unit	1661	-----		
Class	PLT	PLANTS	ALL	
Art Unit	1662	-----		
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	341	431
			410	470
			468	FOR 122
			FOR 114	FOR 122
Class	800	MULTICELLULAR LIVING ORGANISMS AND UNMODIFIED PARTS THEREOF AND RELATED PROCESSES	260	323.3
			FOR 101	FOR 103
			FOR 105	FOR 108

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1671	-----	-----	-----
Class	260	CHEMISTRY OF CARBON COMPOUNDS	1	665 R
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	117 144 197 426 482 500 524 607 659 694 711 741 745 747 910 943 960	
Class	518	CHEMISTRY: FISCHER-TROPSCH PROCESSES; OR PURIFICATION OR RECOVERY OF PRODUCTS THEREOF	ALL	
Class	552	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1 260	258 FOR 000
Class	554	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	556	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	560	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	562	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	564	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	568	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	570	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1673	-----	-----	-----
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	23 25 37 45 57	35 43 55 62
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1.11 25.1 51	22.1 49 128
Art Unit	1674	-----		
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	91.1 91.4	91.32 91.53
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	44 A	
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	23.52 24.5	23.53
Art Unit	1675	-----		
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	1.1 10.4 10.9 11.6 12.5 12.8 16.2 17.2 18.6 19.2 20.7 21.3 5.5 56 6.1	4.9 10.6 11.2 12.3 12.6 15.9 16.3 17.2 18.8 20.5 21.1 21.92 5.7 7.4
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	300 312	310 345
Art Unit	1676	-----		
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	5.4	



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		Class Title	Subclass Ranges	
			From	To
Art Unit	1677	-----	-----	-----
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	3 6.19 7.24 7.5 7.91 800 960 FOR 206	4 7.21 7.25 7.8 7.95 802 975 829
Class	436	CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL TESTING	500	829
Art Unit	1678	-----		
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	7.9	
Art Unit	1711	-----		
Class	8	BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS	147	159
Class	68	TEXTILES: FLUID TREATING APPARATUS	ALL	
Class	134	CLEANING AND LIQUID CONTACT WITH SOLIDS	ALL	
Art Unit	1713	-----		
Class	216	ETCHING A SUBSTRATE: PROCESSES	2	109
Class	252	COMPOSITIONS	79.1	79.5
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	689 704 9	698 757
Art Unit	1714	-----		
Class	117	SINGLE-CRYSTAL, ORIENTED-CRYSTAL, AND EPITAXY GROWTH PROCESSES; NON-COATING APPARATUS THEREFOR	1	958

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1715	-----	-----	-----
Class	427	COATING PROCESSES	1 214	213 FOR 110
Art Unit	1716	-----		
Class	118	COATING APPARATUS	715 FOR 000	900
Class	156	ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE	345.1 912	345.55 917
Art Unit	1717	-----		
Class	118	COATING APPARATUS	13 DIG 1	714 DIG 22
Art Unit	1721	-----		
Class	430	RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF	102	
Art Unit	1722	-----		
Class	252	COMPOSITIONS	299.01	299.7
Art Unit	1725	-----		
Class	48	GAS: HEATING AND ILLUMINATING	ALL	
Class	429	CHEMISTRY: ELECTRICAL CURRENT PRODUCING APPARATUS, PRODUCT, AND PROCESS	177	
Art Unit	1726	-----		
Class	29	METAL WORKING	2 623.1 730	623.5 731
Class	429	CHEMISTRY: ELECTRICAL CURRENT PRODUCING APPARATUS, PRODUCT, AND PROCESS	1 178	176 FOR 144

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1731	-----	-----	-----
Class	51	ABRASIVE TOOL MAKING PROCESS, MATERIAL, OR COMPOSITION	ALL	
Class	106	COMPOSITIONS: COATING OR PLASTIC	2	18.36
			273.1	284.4
			310	DIG 7
			32.5	34
			36	38.9
Class	252	COMPOSITIONS	378 P	378 R
			70	
			8.57	8.91
			950	951
Class	501	COMPOSITIONS: CERAMIC	ALL	
Art Unit	1732	-----		
Class	106	COMPOSITIONS: COATING OR PLASTIC	122	272
			285	287.35
			FOR 000	FOR 197
Class	127	SUGAR, STARCH, AND CARBOHYDRATES	29	71
Class	423	CHEMISTRY OF INORGANIC COMPOUNDS	700	718
Class	502	CATALYST, SOLID SORBENT, OR SUPPORT THEREFOR: PRODUCT OR PROCESS OF MAKING	100	231
Art Unit	1733	-----		
Class	75	SPECIALIZED METALLURGICAL PROCESSES, COMPOSITIONS FOR USE THEREIN, CONSOLIDATED METAL POWDER COMPOSITIONS, AND LOOSE METAL PARTICULATE MIXTURES	ALL	
Class	148	METAL TREATMENT	22	33.6
			99	DIG 174
Class	222	DISPENSING	590	607
			629	
Class	266	METALLURGICAL APPARATUS	ALL	
Class	419	POWDER METALLURGY PROCESSES	ALL	
Class	420	ALLOYS OR METALLIC COMPOSITIONS	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1734	-----	-----	-----
Class	106	COMPOSITIONS: COATING OR PLASTIC	1.05 31.01 35	1.29 31.97
Class	149	EXPLOSIVE AND THERMIC COMPOSITIONS OR CHARGES	49	
Class	252	COMPOSITIONS	301.16 60	301.6 S 62.9P Z
Art Unit	1735	-----		
Class	149	EXPLOSIVE AND THERMIC COMPOSITIONS OR CHARGES	1 50	48 FOR 000
Class	164	METAL FOUNGING	ALL	
Class	228	METAL FUSION BONDING	ALL	
Art Unit	1736	-----		
Class	23	CHEMISTRY: PHYSICAL PROCESSES	ALL	
Class	71	CHEMISTRY: FERTILIZERS	ALL	
Class	148	METAL TREATMENT	95	98
Class	252	COMPOSITIONS	372	377
Class	423	CHEMISTRY OF INORGANIC COMPOUNDS	1 DIG 1	659 FOR 102
Class	502	CATALYST, SOLID SORBENT, OR SUPPORT THEREFOR: PRODUCT OR PROCESS OF MAKING	1 232	87 FOR 000
Class	505	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS	ALL	
Class	588	HAZARDOUS OR TOXIC WASTE DESTRUCTION OR CONTAINMENT	1 261	20 FOR 000
Art Unit	1737	-----		
Class	430	RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF	1 103	101 FOR 118

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1741	-----	-----	-----
Class	65	GLASS MANUFACTURING	ALL	
Art Unit	1742	-----		
Class	264	PLASTIC AND NONMETALLIC ARTICLE SHAPING OR TREATING: PROCESSES	.5 5	4 FOR 102
Art Unit	1743	-----		
Class	425	PLASTIC ARTICLE OR EARTHENWARE SHAPING OR TREATING: APPARATUS	ALL	
Art Unit	1744	-----		
Class	249	STATIC MOLDS	197 52 DIG 1	206 187.1 DIG 5
Art Unit	1745	-----		
Class	156	ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE	346 423 918 FOR 100	393 767 DIG 51 FOR 101
Art Unit	1746	-----		
Class	156	ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE	1 137 908	109 338

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1747	-----	-----	-----
Class	131	TOBACCO	ALL	
Class	152	RESILIENT TIRES AND WHEELS	900	DIG 6
			DIG 12	
			DIG 14	DIG 16
			DIG 18	DIG 19
Class	156	ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE	906	907
			909	910
Art Unit	1748	-----		
Class	162	PAPER MAKING AND FIBER LIBERATION	ALL	
Art Unit	1749	-----		
Class	152	RESILIENT TIRES AND WHEELS	151	169
			192	212
			300	322
			331.1	373
			450	565
Class	156	ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE	110.1	136
			394.1	422
Art Unit	1756	-----		
Class	204	CHEMISTRY: ELECTRICAL AND WAVE ENERGY	606	
Class	205	ELECTROLYSIS: PROCESSES, COMPOSITIONS USED THEREIN, AND METHODS OF PREPARING THE COMPOSITIONS	631	684
Art Unit	1757	-----		
Class	136	BATTERIES: THERMOELECTRIC AND PHOTOELECTRIC	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1761	-----	-----	-----
Class	8	BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS	115.54	133
Class	252	COMPOSITIONS	404	436
			1	8.05
			363.5	367.1
			380	407
			478	700
			67	69
			71	79
			88.1	194
			960	FOR 254
Class	510	CLEANING COMPOSITIONS FOR SOLID SURFACES, AUXILIARY COMPOSITIONS THEREFOR, OR PROCESSES OF PREPARING THE COMPOSITIONS	100	156
			174	213
			220	225
			227	277
			281	293
			295	297
			299	
			301	304
			307	318
			324	341
			343	391
			394	
			398	404
			406	434
			437	466
			468	513
			515	528
			536	FOR 240
Class	523	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	462	468

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1762	-----	-----	-----
Class	260	CHEMISTRY OF CARBON COMPOUNDS	998.11	FOR 000
Class	521	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	25	39
Class	523	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	123 160 180 218	177 181 375
Class	524	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	1 700 732 839 868	587 729 836 857 929
Class	525	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	149 185 319 50 65 92 H	164 190 324 62
Class	526	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	280 59	FOR 000 278
Art Unit	1763	-----		
Class	512	PERFUME COMPOSITIONS	1	27
Class	524	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	589 FOR 000	591



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		Class Title	Subclass Ranges	
			From	To
Art Unit	1764	-----	-----	-----
Class	8	BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS	137 160 405 94.1 D	142 403 435 115.53
Class	510	CLEANING COMPOSITIONS FOR SOLID SURFACES, AUXILIARY COMPOSITIONS THEREFOR, OR PROCESSES OF PREPARING THE COMPOSITIONS	DIG 1 226 320 342 392 405	FOR 000  321  393
Class	523	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	200 215	211 217
Class	524	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	592	598
Class	525	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	242	318

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1765			
Class	264	PLASTIC AND NONMETALLIC ARTICLE SHAPING OR TREATING: PROCESSES	4.1	4.7
Class	427	COATING PROCESSES	213.3	213.36
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	402.2	402.24
Class	520	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	ALL	
Class	521	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	40	918
Class	522	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	ALL	
Class	523	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	212	214
Class	524	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	588	
Class	525	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	146 178 191 396 419 438 446 461 481 523 63 66 92 J	148 184 241  436   470 486 533 64 92 G 122
Class	526	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	279	
Class	527	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	ALL	
Class	528	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	10 176 310 392 480	124 270 372 402 FOR 000

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1766	-----	-----	-----
Class	516	COLLOID SYSTEMS AND WETTING AGENTS; SUBCOMBINATIONS THEREOF; PROCESSES OF MAKING, STABILIZING, BREAKING, OR INHIBITING	117 123	118 124
Class	525	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	123 165 326.1 397 437 439 447 471 487 534 7	145 177 395 418 445 460 480 522 FOR 000 49
Class	528	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	373 403	391 425

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1767			
Class	510	CLEANING COMPOSITIONS FOR SOLID SURFACES, AUXILIARY COMPOSITIONS THEREFOR, OR PROCESSES OF PREPARING THE COMPOSITIONS	157 214 278 294 298 300 305 319 322 395 435 467 514 529	173 219 280   306   323 397 436   535
Class	516	COLLOID SYSTEMS AND WETTING AGENTS; SUBCOMBINATIONS THEREOF; PROCESSES OF MAKING, STABILIZING, BREAKING, OR INHIBITING	1 119 125	116 122 FOR 163
Class	523	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	1 124 179 400 500	122 159  461 527
Class	524	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	599 730 837 858	650 731 838 866
Class	528	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	1 125 271	9 175 309.1
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	200 500	233 507
Art Unit	1768			
Class	507	EARTH BORING, WELL TREATING, AND OIL FIELD CHEMISTRY	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1771	-----	-----	-----
Class	44	FUEL AND RELATED COMPOSITIONS	ALL	
Class	196	MINERAL OILS: APPARATUS	ALL	
Class	208	MINERAL OILS: PROCESSES AND PRODUCTS	ALL	
Class	442	FABRIC (WOVEN, KNITTED, OR NONWOVEN TEXTILE OR CLOTH, ETC.)	FOR 000	
Class	508	SOLID ANTI-FRICTION DEVICES, MATERIALS THEREFOR, LUBRICANT OR SEPARANT COMPOSITIONS FOR MOVING SOLID SURFACES, AND MISCELLANEOUS MINERAL OIL COMPOSITIONS	ALL	
Art Unit	1772	-----		
Class	159	CONCENTRATING EVAPORATORS	ALL	
Class	201	DISTILLATION: PROCESSES, THERMOLYTIC	ALL	
Class	202	DISTILLATION: APPARATUS	ALL	
Class	203	DISTILLATION: PROCESSES, SEPARATORY	ALL	
Class	585	CHEMISTRY OF HYDROCARBON COMPOUNDS	ALL	
Art Unit	1774	-----		
Class	366	AGITATING	1	DIG 4
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	105 129 187 600	115 185 242 659
Class	494	IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS	FOR 100 ALL	FOR 122

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1775	-----	-----	-----
Class	95	GAS SEPARATION: PROCESSES	FOR 000	
Class	96	GAS SEPARATION: APPARATUS	FOR 000	FOR 176
Class	366	AGITATING	FOR 000	
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	FOR 000	
Art Unit	1776	-----		
Class	55	GAS SEPARATION	ALL	
Class	95	GAS SEPARATION: PROCESSES	1	903
Class	96	GAS SEPARATION: APPARATUS	1	429
Class	261	GAS AND LIQUID CONTACT APPARATUS	ALL	
Art Unit	1778	-----		
Class	127	SUGAR, STARCH, AND CARBOHYDRATES	1 DIG 1	28 FOR 000
Class	210	LIQUID PURIFICATION OR SEPARATION	ALL	
Art Unit	1782	-----		
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	1.1 34.1	1.62 36.92
Art Unit	1783	-----		
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	119 191 212 33 38 43 66.1 98	189  220 34  63 84 115

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1784	-----	-----	-----
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	116	118
			2	32
			209	210
			39	
			408	410
			426	428
			432	434
			446	
			448	450
			452	454
			469	472.3
			539.5	
			542.2	542.8
			544	689
			691	
			696	704
Art Unit	1785	-----		
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	192	
			194	195.1
			198	208
			211.1	
			32.1	32.21
			32.23	32.26
			32.28	32.87
			320.2	321.5
			488.11	488.41
			497	499
			64.1	65.9
			692.1	693.1
			800	848.9
Class	503	RECORD RECEIVER HAVING PLURAL INTERACTIVE LEAVES OR A COLORLESS COLOR FORMER, METHOD OF USE, OR DEVELOPER THEREFOR	ALL	
Art Unit	1786	-----		
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	357	401
			690	
Class	442	FABRIC (WOVEN, KNITTED, OR NONWOVEN TEXTILE OR CLOTH, ETC.)	59	180
			FOR 100	FOR 167

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1787	-----	-----	-----
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	32.22	
			32.27	
			323	342
			355 R	356
			411.1	425.9
			429	431
			435	445
			447	
			451	
			455	468
			473	487
			489	496
			500	537.7
			540	541
			543	
			900	FOR 175
Art Unit	1788	-----		
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	304.4	319.9
			322.2	322.7
			343	355 N
			40.1	42.3
			402	
			403	407
Art Unit	1789	-----		
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	190	
			193	
			196	197
			221	301.4
			37	
			85	97
Class	442	FABRIC (WOVEN, KNITTED, OR NONWOVEN TEXTILE OR CLOTH, ETC.)	1	58
			181	417
Art Unit	1791	-----		
Class	426	FOOD OR EDIBLE MATERIAL: PROCESSES, COMPOSITIONS, AND PRODUCTS	1	74
			105	
			135	
			140	
			246	



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		Class Title	Subclass Ranges	
			From	To
Art Unit	1792	-----	-----	-----
Class	117	SINGLE-CRYSTAL, ORIENTED-CRYSTAL, AND EPITAXY GROWTH PROCESSES; NON-COATING APPARATUS THEREFOR	FOR 000	
Class	156	ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE	FOR 000	
Class	216	ETCHING A SUBSTRATE: PROCESSES	FOR 000	
Class	426	FOOD OR EDIBLE MATERIAL: PROCESSES, COMPOSITIONS, AND PRODUCTS	104 106 138 143 247 312 316 324 383 389 392 418 438 464 496 75 800 90	134 139 245 248 314 327 390 416 421 473 524 88 FOR 000 91
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 102	FOR 134
Art Unit	1794	-----		
Class	204	CHEMISTRY: ELECTRICAL AND WAVE ENERGY	155 192.1 228.1 298.01 554 660	158.21 194 278.5 298.41 573 FOR 937
Class	205	ELECTROLYSIS: PROCESSES, COMPOSITIONS USED THEREIN, AND METHODS OF PREPARING THE COMPOSITIONS	147 220 316 339 343 363 43 498 560 632	157 237 333 340 353 412 79 507 630 683

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1795	-----	-----	-----
Class	204	CHEMISTRY: ELECTRICAL AND WAVE ENERGY	164	179
			196.01	227
			279	297.16
			400	553
			600	605
			607	650
Class	205	ELECTROLYSIS: PROCESSES, COMPOSITIONS USED THEREIN, AND METHODS OF PREPARING THE COMPOSITIONS	158	219
			238	315
			334	338
			341	342
			354	362
			413	497
			508	559
			687	794.5
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	80	146
			186	186.3
Art Unit	1796	-----		
Class	512	PERFUME COMPOSITIONS	FOR 000	
Class	521	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	919	FOR 000
Class	523	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	FOR 000	
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	FOR 000	
Art Unit	1797	-----		
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	502	507
Class	436	CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL TESTING	1	183
			900	FOR 000

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1798	-----	-----	-----
Class	252	COMPOSITIONS	408.1	
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	116 310 49 508 900	501 98 570 948
Class	506	COMBINATORIAL CHEMISTRY TECHNOLOGY: METHOD, LIBRARY, APPARATUS	33	40
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	266	274
Art Unit	1799	-----		
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	1 117 243	43 128 309
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	262 805 817 819	309.4 814
Art Unit	2118	-----		
Class	713	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: SUPPORT	FOR 400	
Art Unit	2121	-----		
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	130 FOR 000	FOR 106
Art Unit	2122	-----		
Class	706	DATA PROCESSING: ARTIFICIAL INTELLIGENCE	61 900	FOR 131
Art Unit	2123	-----		
Class	703	DATA PROCESSING: STRUCTURAL DESIGN, MODELING, SIMULATION, AND EMULATION	FOR 488	FOR 806

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2126	-----	-----	-----
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	1 145 265 275 95	90 212  306 129
Art Unit	2127	-----		
Class	703	DATA PROCESSING: STRUCTURAL DESIGN, MODELING, SIMULATION, AND EMULATION	1 13	10 28
Art Unit	2129	-----		
Class	706	DATA PROCESSING: ARTIFICIAL INTELLIGENCE	1 62	60
Art Unit	2131	-----		
Class	713	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: SUPPORT	FOR 000	
Art Unit	2139	-----		
Class	711	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MEMORY	1	E12.103
Art Unit	2143	-----		
Class	715	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT, OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING	700	FOR 208
Art Unit	2144	-----		
Class	715	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT, OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING	200	277

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2161	-----	-----	-----
Class	707	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES	ALL	
Art Unit	2176	-----		
Class	715	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT, OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING	FOR 209	FOR 264
Art Unit	2182	-----		
Class	708	ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING AND CALCULATING	ALL	
Art Unit	2183	-----		
Class	712	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION PROCESSING (E.G., PROCESSORS)	1	E09.086
Art Unit	2184	-----		
Class	714	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY	FOR 100	FOR 300
Art Unit	2185	-----		
Class	710	ELECTRICAL COMPUTERS AND DIGITAL DATA PROCESSING SYSTEMS: INPUT/OUTPUT	1	317
Art Unit	2186	-----		
Class	714	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY	1 FOR 306	E11.22 FOR 313

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2187	-----	-----	-----
Class	713	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: SUPPORT	1 300	100 601
Art Unit	2189	-----		
Class	711	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MEMORY	FOR 000	
Art Unit	2192	-----		
Class	717	DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND MANAGEMENT	100	178
Art Unit	2193	-----		
Class	717	DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND MANAGEMENT	FOR 000	
Art Unit	2194	-----		
Class	719	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS COMMUNICATION (IPC)	FOR 000	FOR 173
Art Unit	2195	-----		
Class	718	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: VIRTUAL MACHINE TASK OR PROCESS MANAGEMENT OR TASK MANAGEMENT/CONTROL	FOR 000	FOR 167
Art Unit	2196	-----		
Class	718	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: VIRTUAL MACHINE TASK OR PROCESS MANAGEMENT OR TASK MANAGEMENT/CONTROL	1	108
Class	719	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: INTERPROGRAM COMMUNICATION OR INTERPROCESS	310	332

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2414	-----	-----	-----
Class	370	MULTIPLEX COMMUNICATIONS	200 501	361 FOR 197
Art Unit	2422	-----		
Class	348	TELEVISION	173 21 377 441 703 844 E13.055	206 24 383 698 817 E13.053 E17
Art Unit	2425	-----		
Class	725	INTERACTIVE VIDEO DISTRIBUTION SYSTEMS	ALL	
Art Unit	2447	-----		
Class	709	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING	ALL	
Art Unit	2465	-----		
Class	370	MULTIPLEX COMMUNICATIONS	362	430
Art Unit	2479	-----		
Class	370	MULTIPLEX COMMUNICATIONS	431	500
Art Unit	2482	-----		
Class	375	PULSE OR DIGITAL COMMUNICATIONS	240.1	240.29

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2484	-----	-----	-----
Class	386	MOTION VIDEO SIGNAL PROCESSING FOR RECORDING OR REPRODUCING	ALL	
Art Unit	2487	-----		
Class	348	TELEVISION	25 384.1 699 818	172 440.1 702 843
Art Unit	2489	-----		
Class	375	PULSE OR DIGITAL COMMUNICATIONS	240.01	240.09
Art Unit	2491	-----		
Class	380	CRYPTOGRAPHY	ALL	
Class	713	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: SUPPORT	150 FOR 123	194 FOR 125
Class	726	INFORMATION SECURITY	ALL	
Art Unit	2611	-----		
Class	345	COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY SYSTEMS	418 947	689 960
Class	375	PULSE OR DIGITAL COMMUNICATIONS	E01	FOR 109
Art Unit	2612	-----		
Class	348	TELEVISION	FOR 161 FOR 184	FOR 162 FOR 212
Art Unit	2613	-----		
Class	348	TELEVISION	FOR 000	FOR 160



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		Class Title	Subclass Ranges	
			From	To
Art Unit	2621	-----	-----	-----
Class	178	TELEGRAPHY	18.01	20.04
Class	345	COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY SYSTEMS	1.1 690	215 905
Class	382	IMAGE ANALYSIS	FOR 000	
Art Unit	2622	-----		
Class	348	TELEVISION	E13.054	
Art Unit	2627	-----		
Class	G9B	INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN RECORD CARRIER AND TRANSDUCER	ALL	
Art Unit	2631	-----		
Class	375	PULSE OR DIGITAL COMMUNICATIONS	130 241	240 377
Art Unit	2636	-----		
Class	398	OPTICAL COMMUNICATIONS	ALL	
Art Unit	2642	-----		
Class	455	TELECOMMUNICATIONS	400	466
Art Unit	2649	-----		
Class	379	TELEPHONIC COMMUNICATIONS	55.1	56.3
Class	455	TELECOMMUNICATIONS	1 500	355 FOR 254

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2651	-----	-----	-----
Class	348	TELEVISION	FOR 163	FOR 183
Art Unit	2652	-----		
Class	379	TELEPHONIC COMMUNICATIONS	188	337
Art Unit	2653	-----		
Class	379	TELEPHONIC COMMUNICATIONS	338 67.1	418 88.28
Art Unit	2654	-----		
Class	381	ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES	1 300 332	124 311 336
Art Unit	2655	-----		
Class	381	ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES	406	
Art Unit	2656	-----		
Class	348	TELEVISION	14.01	14.16
Class	379	TELEPHONIC COMMUNICATIONS	1.01 419 90.01	52 FOR 197 187
Class	381	ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES	150 312 337 407	191 331 405 FOR 165
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	94	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2657	-----	-----	-----
Class	704	DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION	FOR 000	
Art Unit	2658	-----		
Class	704	DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION	1	E21.02
Art Unit	2661	-----		
Class	348	TELEVISION	333.13	
Art Unit	2668	-----		
Class	382	IMAGE ANALYSIS	100	325
Art Unit	2676	-----		
Class	358	FACSIMILE AND STATIC PRESENTATION PROCESSING	ALL	
Art Unit	2677	-----		
Class	345	COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY SYSTEMS	FOR 000	FOR 220
Art Unit	2683	-----		
Class	340	COMMUNICATIONS: ELECTRICAL	1.1	16.1
Class	367	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES	197	199

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2685	-----	-----	-----
Class	340	COMMUNICATIONS: ELECTRICAL	146.2 901	815.92 999
Class	367	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES	FOR 100 93	FOR 472 94
Art Unit	2686	-----		
Class	340	COMMUNICATIONS: ELECTRICAL	850	870.44
Class	341	CODED DATA GENERATION OR CONVERSION	173 20	192 35
Class	367	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES	81	85
Art Unit	2688	-----		
Class	360	DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL	ALL	
Class	369	DYNAMIC INFORMATION STORAGE OR RETRIEVAL	ALL	
Class	720	DYNAMIC OPTICAL INFORMATION STORAGE OR RETRIEVAL	ALL	
Art Unit	2691	-----		
Class	178	TELEGRAPHY	1 21	17.5 FOR 103
Art Unit	2696	-----		
Class	348	TELEVISION	207.1 335	333.12 376
Art Unit	2763	-----		
Class	703	DATA PROCESSING: STRUCTURAL DESIGN, MODELING, SIMULATION, AND EMULATION	FOR 000	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2782	-----	-----	-----
Class	710	ELECTRICAL COMPUTERS AND DIGITAL DATA PROCESSING SYSTEMS: INPUT/OUTPUT	FOR 000	
Art Unit	2783	-----		
Class	712	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION PROCESSING (E.G., PROCESSORS)	FOR 000	
Art Unit	2785	-----		
Class	714	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY	FOR 000	
Art Unit	2811	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	2	798
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 135	FOR 136
Art Unit	2812	-----		
Class	29	METAL WORKING	25.01	25.03
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	1	8
			10	688
			699	703
			758	979
			982	983
			FOR 140	FOR 144
			FOR 150	
			FOR 159	FOR 498

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2813	-----	-----	-----
Class	148	METAL TREATMENT	FOR 000	
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.012	E21.014
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 137	FOR 139
Art Unit	2814	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	1 900 FOR 000	E21
Art Unit	2818	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21	E21
Art Unit	2822	-----		
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 000	FOR 101
Art Unit	2823	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.01 E21.015	E21.011
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	980	981
Art Unit	2826	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.016	E21.018
Art Unit	2827	-----		
Class	365	STATIC INFORMATION STORAGE AND RETRIEVAL	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2828	-----	-----	-----
Class	372	COHERENT LIGHT GENERATORS	ALL	
Art Unit	2831	-----		
Class	290	PRIME-MOVER DYNAMO PLANTS	ALL	
Class	322	ELECTRICITY: SINGLE GENERATOR SYSTEMS	ALL	
Art Unit	2832	-----		
Class	336	INDUCTOR DEVICES	FOR 000	
Class	338	ELECTRICAL RESISTORS	FOR 000	
Art Unit	2833	-----		
Class	200	ELECTRICITY: CIRCUIT MAKERS AND BREAKERS	ALL	
Class	218	HIGH-VOLTAGE SWITCHES WITH ARC PREVENTING OR EXTINGUISHING DEVICES	ALL	
Class	338	ELECTRICAL RESISTORS	1	DIG 1
Class	368	HOROLOGY: TIME MEASURING SYSTEMS OR DEVICES	ALL	
Class	439	ELECTRICAL CONNECTORS	ALL	
Art Unit	2834	-----		
Class	310	ELECTRICAL GENERATOR OR MOTOR STRUCTURE	1 400 81 DIG 2	79 433 310 FOR 111

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2835	-----	-----	-----
Class	174	ELECTRICITY: CONDUCTORS AND INSULATORS	102 A 133 R 15.6 21 C 31.5 650 70 A 85	102 P  16.3   FOR 117 74 A 94 S
Class	337	ELECTRICITY: ELECTROTHERMALLY OR THERMALLY ACTUATED SWITCHES	ALL	
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	600 752 796 805 FOR 102	747 759 802 837 FOR 110
Art Unit	2836	-----		
Class	307	ELECTRICAL TRANSMISSION OR INTERCONNECTION SYSTEMS	ALL	
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	1 35 434 FOR 100	19 270 437 FOR 101



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		Class Title	Subclass Ranges	
			From	To
Art Unit	2837	-----	-----	-----
Class	84	MUSIC	ALL	
Class	181	ACOUSTICS	ALL	
Class	187	ELEVATOR, INDUSTRIAL LIFT TRUCK, OR STATIONARY LIFT FOR VEHICLE	247 277 316 380 901	248 299 317 399 902
Class	310	ELECTRICAL GENERATOR OR MOTOR STRUCTURE	311 80 800	371
Class	318	ELECTRICITY: MOTIVE POWER SYSTEMS	ALL	
Class	335	ELECTRICITY: MAGNETICALLY OPERATED SWITCHES, MAGNETS, AND ELECTROMAGNETS	ALL	
Class	336	INDUCTOR DEVICES	5	DIG 2
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	20 FOR 000	34
Class	388	ELECTRICITY: MOTOR CONTROL SYSTEMS	ALL	
Class	984	MUSICAL INSTRUMENTS	ALL	
Art Unit	2838	-----		
Class	323	ELECTRICITY: POWER SUPPLY OR REGULATION SYSTEMS	ALL	
Class	363	ELECTRIC POWER CONVERSION SYSTEMS	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2842	-----	-----	-----
Class	327	MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS	ALL	
Class	329	DEMODULATORS	ALL	
Class	330	AMPLIFIERS	ALL	
Class	331	OSCILLATORS	ALL	
Class	332	MODULATORS	ALL	
Class	333	WAVE TRANSMISSION LINES AND NETWORKS	ALL	
Class	334	TUNERS	ALL	
Class	340	COMMUNICATIONS: ELECTRICAL	FOR 000	
Class	377	ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR SHIFT REGISTERS: CIRCUITS AND SYSTEMS	ALL	
Art Unit	2844	-----		
Class	315	ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS	ALL	
Class	326	ELECTRONIC DIGITAL LOGIC CIRCUITRY	ALL	
Art Unit	2845	-----		
Class	341	CODED DATA GENERATION OR CONVERSION	1 200 50	17 FOR 000 172
Class	343	COMMUNICATIONS: RADIO WAVE ANTENNAS	ALL	
Art Unit	2847	-----		
Class	174	ELECTRICITY: CONDUCTORS AND INSULATORS	102 R 15.1 21 R 250 32 520 74 R	133 B 15.5 29 397 36 565 84 S

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2848	-----	-----	-----
Class	174	ELECTRICITY: CONDUCTORS AND INSULATORS	1 135 17 R 30 37 480 95	14.0B H 212 20 31 S 69 507 101.5
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	271 500 748 760 803	330 541 751 795 804
Art Unit	2851	-----		
Class	716	COMPUTER-AIDED DESIGN AND ANALYSIS OF CIRCUITS AND SEMICONDUCTOR MASKS	ALL	
Art Unit	2852	-----		
Class	359	OPTICAL: SYSTEMS AND ELEMENTS	443 591 616	461 598 617
Class	396	PHOTOGRAPHY	ALL	
Class	399	ELECTROPHOTOGRAPHY	1 24 411	15 360 FOR 000
Art Unit	2853	-----		
Class	346	RECORDERS	ALL	
Class	347	INCREMENTAL PRINTING OF SYMBOLIC INFORMATION	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2854	-----	-----	-----
Class	101	PRINTING	ALL	
Class	199	TYPE CASTING	ALL	
Class	276	TYPESETTING	ALL	
Class	399	ELECTROPHOTOGRAPHY	16	23
Class	400	TYPEWRITING MACHINES	361	410
Class			ALL	
Art Unit	2856	-----		
Class	968	HOROLOGY	2	977
Art Unit	2857	-----		
Class	702	DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING	1 22	18 FOR 173
Art Unit	2858	-----		
Class	324	ELECTRICITY: MEASURING AND TESTING	ALL	
Art Unit	2859	-----		
Class	320	ELECTRICITY: BATTERY OR CAPACITOR CHARGING OR DISCHARGING	ALL	
Class	968	HOROLOGY	FOR 000	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2861	-----	-----	-----
Class	33	GEOMETRICAL INSTRUMENTS	ALL	
Class	73	MEASURING AND TESTING	ALL	
Class	116	SIGNALS AND INDICATORS	ALL	
Class	177	WEIGHING SCALES	ALL	
Class	374	THERMAL MEASURING AND TESTING	ALL	
Art Unit	2871	-----		
Class	349	LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS	ALL	
Art Unit	2872	-----		
Class	351	OPTICS: EYE EXAMINING, VISION TESTING AND CORRECTING	41 FOR 100	247 FOR 119
Class	359	OPTICAL: SYSTEMS AND ELEMENTS	1 350 462 599 618 FOR 100	324 442 590 615 904 FOR 150
Art Unit	2874	-----		
Class	359	OPTICAL: SYSTEMS AND ELEMENTS	325	332
Art Unit	2875	-----		
Class	362	ILLUMINATION	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2876	-----	-----	-----
Class	235	REGISTERS	ALL	
Class	902	ELECTRONIC FUNDS TRANSFER	ALL	
Art Unit	2877	-----		
Class	356	OPTICS: MEASURING AND TESTING	140 142 153 2 30 4.09 6 FOR 100	151 900 3 139 4.1 27 FOR 142
Art Unit	2878	-----		
Class	250	RADIANT ENERGY	200 548 900 DIG 1	239 578.1 908 DIG 2
Class	352	OPTICS: MOTION PICTURES	ALL	
Art Unit	2879	-----		
Class	313	ELECTRIC LAMP AND DISCHARGE DEVICES	ALL	
Class	314	ELECTRIC LAMP AND DISCHARGE DEVICES: CONSUMABLE ELECTRODES	ALL	
Class	445	ELECTRIC LAMP OR SPACE DISCHARGE COMPONENT OR DEVICE MANUFACTURING	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2881	-----	-----	-----
Class	250	RADIANT ENERGY	250	251
			281	300
			302	307
			309	326
			396 R	455.11
			489	526
			FOR 000	
Class	850	SCANNING-PROBE TECHNIQUES OR APPARATUS; APPLICATIONS OF SCANNING-PROBE TECHNIQUES, E.G., SCANNING PROBE MICROSCOPY [SPM]	ALL	
Art Unit	2882			
Class	353	OPTICS: IMAGE PROJECTORS	ALL	
Class	355	PHOTOCOPYING	ALL	
Art Unit	2883			
Class	385	OPTICAL WAVEGUIDES	ALL	
Art Unit	2884			
Class	250	RADIANT ENERGY	252.1	271
			301	
			308	
			328	395
			458.1	488.1
			580	591
			909	910
Class	378	X-RAY OR GAMMA RAY SYSTEMS OR DEVICES	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2891	-----	-----	-----
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.019	E21.021
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 145	FOR 146
Class	977	NANOTECHNOLOGY	ALL	
Art Unit	2892	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.022	E21.024
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 147	FOR 149
Art Unit	2893	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.025	E21.027
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 151	FOR 153
Art Unit	2894	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.028	E21.03
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 154	FOR 156
Art Unit	2895	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.031	E21.033
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 157	FOR 158



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		Class Title	Subclass Ranges	
			From	To
Art Unit	2911	-----	-----	-----
Class	D 1	EDIBLE PRODUCTS	ALL	
Class	D 4	BRUSHWARE	ALL	
Class	D 6	FURNISHINGS	354 512	574
Class	D 8	TOOLS AND HARDWARE	2 330 354 358 363 370	13 349 355 359 367 381
Class	D10	MEASURING, TESTING, OR SIGNALLING INSTRUMENTS	DIG 1 104.1	DIG 10 121
Class	D12	TRANSPORTATION	16.1 163 168 173 182 184 196 214 218 221 223 402 407 420	166 170 180  186 216  345 411
Class	D13	EQUIPMENT FOR PRODUCTION, DISTRIBUTION, OR TRANSFORMATION OF ENERGY	82 135 154 162.1	133 139.8 157
Class	D14	RECORDING, COMMUNICATION, OR INFORMATION RETRIEVAL EQUIPMENT	138 C 260.1 300 417 420 480.1 484.1 900	138.0A D 411 461 480.7 496 902
Class	D18	PRINTING AND OFFICE MACHINERY	34.1 35.1	34.9
Class	D20	SALES AND ADVERTISING EQUIPMENT	10	99
Class	D23	ENVIRONMENTAL HEATING AND COOLING; FLUID HANDLING AND SANITARY EQUIPMENT	200 212	211 232

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2912	-----	-----	-----
Class	D 2	APPAREL AND HABERDASHERY	500	643
			865	895
			971	999
Class	D 3	TRAVEL GOODS AND PERSONAL BELONGINGS	201	202
			204	
			216	217
			269	270
			272	302
			318	329
Class	D 6	FURNISHINGS	315	328
Class	D 7	EQUIPMENT FOR PREPARING OR SERVING FOOD OR DRINK NOT ELSEWHERE SPECIFIED	401.1	
			502	
			504	
			508	
			589	641
			665	697
			700	710
Class	D 8	TOOLS AND HARDWARE	14	
			300	302
			305	322
			31	32
			350	353
			382	396
			44	50
			75	101
Class	D 9	PACKAGES AND CONTAINERS FOR GOODS	414	429
			500	575
			749	907
Class	D10	MEASURING, TESTING, OR SIGNALLING INSTRUMENTS	46.1	46.3
Class	D11	JEWELRY, SYMBOLIC INSIGNIA, AND ORNAMENTS	117	142
			157	164
			184	
Class	D14	RECORDING, COMMUNICATION, OR INFORMATION RETRIEVAL EQUIPMENT	125	129
			131	135
			160	216
			219	229
			238.1	239
			412	416
			418	419
			462	480
			481	484
			497	511
Class	D15	MACHINES NOT ELSEWHERE SPECIFIED	1	5
			10	91

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2913	-----	-----	-----
Class	D 3	TRAVEL GOODS AND PERSONAL BELONGINGS	304	314
Class	D 6	FURNISHINGS	300	314
			329	339
			345	348
			360	407
			595	611
			626	719.4
Class	D 7	EQUIPMENT FOR PREPARING OR SERVING FOOD OR DRINK NOT ELSEWHERE SPECIFIED	325	330
			352	361
			376	386
			390	395
			401.2	
			409	415
			501	
			538	545
			548	557
			570	
			584	588
			642	664
			698	699
			900	901
Class	D 8	TOOLS AND HARDWARE	1	
			107	
			14.1	16
			18	20
			29.1	30
			303	
			33	43
			51	74
Class	D 9	PACKAGES AND CONTAINERS FOR GOODS	434	499
Class	D10	MEASURING, TESTING, OR SIGNALLING INSTRUMENTS	1	46
			122	132
			47	103
Class	D12	TRANSPORTATION	1	16
			17	52
			204	213
			406	
			412	419
			421	901
Class	D13	EQUIPMENT FOR PRODUCTION, DISTRIBUTION, OR TRANSFORMATION OF ENERGY	100	102
			110	118
			122	124
			158	162
			163	199

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2914			
Class	D 2	APPAREL AND HABERDASHERY	700	864
			896	970
Class	D 3	TRAVEL GOODS AND PERSONAL BELONGINGS	1	200
			203.1	203.8
			205	215
			218	268
			271.1	271.9
			303	
			315	317
			900	905
Class	D 6	FURNISHINGS	344	
			355	359
Class	D 7	EQUIPMENT FOR PREPARING OR SERVING FOOD OR DRINK NOT ELSEWHERE SPECIFIED	323	324
			331	351
			362	375
			402	408
Class	D 9	PACKAGES AND CONTAINERS FOR GOODS	600	748
Class	D11	JEWELRY, SYMBOLIC INSIGNIA, AND ORNAMENTS	1	116
			200	241
Class	D12	TRANSPORTATION	159	162
			167	
			171	172
			181	
			183	
			187	195
			197	203
			217	
			219	220
			222	
			400	401
			403	405
Class	D15	MACHINES NOT ELSEWHERE SPECIFIED	6	9.3
Class	D18	PRINTING AND OFFICE MACHINERY	14	33
			35	
			51	53
			57	99
Class	D22	ARMS, PYROTECHNICS, HUNTING AND FISHING EQUIPMENT	ALL	
Class	D23	ENVIRONMENTAL HEATING AND COOLING; FLUID HANDLING AND SANITARY EQUIPMENT	238	243
			249	258
			270	313
Class	D24	MEDICAL AND LABORATORY EQUIPMENT	100	209
			211	234
Class	D25	BUILDING UNITS AND CONSTRUCTION ELEMENTS	1	101
			119	199

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2918			
Class	D 5	TEXTILE OR PAPER YARD GOODS; SHEET MATERIAL	ALL	
Class	D 6	FURNISHINGS	340	343
			349	353
			575	594
			612	625
Class	D 7	EQUIPMENT FOR PREPARING OR SERVING FOOD OR DRINK NOT ELSEWHERE SPECIFIED	213	322
			387	389
			396	401
			416	500
			503	
			505	507
			509	537
			546	547
			558	569
			571	583
Class	D 8	TOOLS AND HARDWARE	102	106
			17	
			21	29
			323	329
			356	357
			360	360.1
			368	369
			397	499
Class	D 9	PACKAGES AND CONTAINERS FOR GOODS	430	433
Class	D11	JEWELRY, SYMBOLIC INSIGNIA, AND ORNAMENTS	143	156
			165	183
Class	D13	EQUIPMENT FOR PRODUCTION, DISTRIBUTION, OR TRANSFORMATION OF ENERGY	103	109
			119	121
			125	134
			144	153
Class	D14	RECORDING, COMMUNICATION, OR INFORMATION RETRIEVAL EQUIPMENT	251	256
Class	D15	MACHINES NOT ELSEWHERE SPECIFIED	122	199
Class	D16	PHOTOGRAPHY AND OPTICAL EQUIPMENT	100	101
			237	342
Class	D18	PRINTING AND OFFICE MACHINERY	50	
			54	56
Class	D23	ENVIRONMENTAL HEATING AND COOLING; FLUID HANDLING AND SANITARY EQUIPMENT	370	385
			403	422
Class	D25	BUILDING UNITS AND CONSTRUCTION ELEMENTS	102	111
Class	D27	TOBACCO AND SMOKERS' SUPPLIES	ALL	

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			Subclass Ranges	
			From	To
Class Title				
Art Unit	3611	-----	-----	-----
Class	180	MOTOR VEHICLES	116	164
			182	207.3
			218	231
			233	267
			36	40
			400	908
			6.2	19.3
Class	280	LAND VEHICLES	1	1.5
			200	515
			28.5	29
			3	5.32
			7	
			827	839
			900	DIG 14
			FOR 100	FOR 197
Art Unit	3612	-----		
Class	293	VEHICLE FENDERS	ALL	
Class	296	LAND VEHICLES: BODIES AND TOPS	ALL	
Class	298	LAND VEHICLES: DUMPING	ALL	
Class	410	FREIGHT ACCOMMODATION ON FREIGHT CARRIER	ALL	
Art Unit	3616	-----		
Class	74	MACHINE ELEMENT OR MECHANISM	11	15.88
			388.0P S	
			492	500
Class	180	MOTOR VEHICLES	20	24.13
			208	217
			232	
			268	290
			311	385
			41	53.8
			76	90.6
			FOR 000	
Class	280	LAND VEHICLES	5.5	6.16
			676	761
			771	808
			80.1	86.758
			87.1	149.2

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3617	-----	-----	-----
Class	104	RAILWAYS	ALL	
Class	105	RAILWAY ROLLING STOCK	ALL	
Class	114	SHIPS	1	19
			242	382
			26	234
Class	152	RESILIENT TIRES AND WHEELS	1	112
			170	191
			213 A	299
			323	329
			375	431
			DIG 13	
			DIG 17	
			DIG 20	FOR 000
			DIG 7	DIG 11
Class	191	ELECTRICITY: TRANSMISSION TO VEHICLES	ALL	
Class	213	RAILWAY DRAFT APPLIANCES	ALL	
Class	238	RAILWAYS: SURFACE TRACK	ALL	
Class	246	RAILWAY SWITCHES AND SIGNALS	ALL	
Class	258	RAILWAY MAIL DELIVERY	ALL	
Class	278	LAND VEHICLES: ANIMAL DRAFT APPLIANCES	ALL	
Class	291	TRACK SANDERS	ALL	
Class	295	RAILWAY WHEELS AND AXLES	ALL	
Class	301	LAND VEHICLES: WHEELS AND AXLES	ALL	
Class	305	WHEEL SUBSTITUTES FOR LAND VEHICLES	ALL	
Class	440	MARINE PROPULSION	ALL	
Class	441	BUOYS, RAFTS, AND AQUATIC DEVICES	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3618	-----	-----	-----
Class	180	MOTOR VEHICLES	165	181
			2.1	2.2
			291	310
			54.1	69.6
Class	280	LAND VEHICLES	FOR 100	FOR 101
			151	192
			2	
			30	79.7
			600	659
			7.1	28.18
			762	770
			809	826
			841	856
Class	903	HYBRID ELECTRIC VEHICLES (HEVS)	87.01	87.051
			ALL	
Art Unit	3619	-----		
Class	280	LAND VEHICLES	FOR 000	
Art Unit	3622	-----		
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	14.1	14.73
			FOR 107	
Art Unit	3623	-----		
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	7.11	7.42
			FOR 110	FOR 114
Art Unit	3625	-----		
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	26.1	27.2
			FOR 108	FOR 109



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		Class Title	Subclass Ranges	
			From	To
Art Unit	3626	-----	-----	-----
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	2	3
Art Unit	3627	-----		
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	15 28 32	25 30 34
Art Unit	3628	-----		
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	13 330 400 5	341 418 6
Art Unit	3629	-----		
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	319 500	328
Art Unit	3631	-----		
Class	211	SUPPORTS: RACKS	ALL	
Class	249	STATIC MOLDS	1 188 207	51 196 219.2
Art Unit	3632	-----		
Class	248	SUPPORTS	ALL	
Art Unit	3633	-----		
Class	52	STATIC STRUCTURES (E.G., BUILDINGS)	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3634	-----	-----	-----
Class	49	MOVABLE OR REMOVABLE CLOSURES	ALL	
Class	160	FLEXIBLE OR PORTABLE CLOSURE, PARTITION, OR PANEL	ALL	
Class	182	FIRE ESCAPE, LADDER, OR SCAFFOLD	ALL	
Art Unit	3636	-----		
Class	135	TENT, CANOPY, UMBRELLA, OR CANE	ALL	
Class	297	CHAIRS AND SEATS	ALL	
Art Unit	3637	-----		
Class	108	HORIZONTALLY SUPPORTED PLANAR SURFACES	ALL	
Class	281	BOOKS, STRIPS, AND LEAVES	49	
Class	312	SUPPORTS: CABINET STRUCTURE	FOR 000	
Class	402	BINDER DEVICE RELEASABLY ENGAGING APERTURE OR NOTCH OF SHEET	ALL	
Class	412	BOOKBINDING: PROCESS AND APPARATUS	52	
			FOR 000	
			FOR 000	
Art Unit	3638	-----		
Class	40	CARD, PICTURE, OR SIGN EXHIBITING	ALL	
Class	281	BOOKS, STRIPS, AND LEAVES	2	48
Class	283	PRINTED MATTER	50	DIG 1
Class	283	PRINTED MATTER	ALL	
Class	402	BINDER DEVICE RELEASABLY ENGAGING APERTURE OR NOTCH OF SHEET	1	51
Class	412	BOOKBINDING: PROCESS AND APPARATUS	53	503
Class	412	BOOKBINDING: PROCESS AND APPARATUS	1	902
Class	462	BOOKS, STRIPS, AND LEAVES FOR MANIFOLDING	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3641	-----	-----	-----
Class	42	FIREARMS	ALL	
Class	86	AMMUNITION AND EXPLOSIVE-CHARGE MAKING	ALL	
Class	89	ORDNANCE	ALL	
Class	102	AMMUNITION AND EXPLOSIVES	ALL	
Class	114	SHIPS	20.1 238 FOR 000	25 241
Class	124	MECHANICAL GUNS AND PROJECTORS	2 54	3 77
Class	244	AERONAUTICS AND ASTRONAUTICS	3.13	
Class	976	NUCLEAR TECHNOLOGY	FOR 000	
Art Unit	3643	-----		
Class	43	FISHING, TRAPPING, AND VERMIN DESTROYING	ALL	
Class	47	PLANT HUSBANDRY	ALL	
Class	54	HARNESS FOR WORKING ANIMAL	ALL	
Class	119	ANIMAL HUSBANDRY	ALL	
Class	168	FARRIERY	ALL	
Class	231	WHIPS AND WHIP APPARATUS	ALL	
Class	449	BEE CULTURE	ALL	
Class	452	BUTCHERING	ALL	
Art Unit	3644	-----		
Class	244	AERONAUTICS AND ASTRONAUTICS	1 A 3.23	3 FOR 114

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3645	-----	-----	-----
Class	356	OPTICS: MEASURING AND TESTING	139.01	139.1
			141.1	141.5
			152.1	152.3
			28	29
			3.01	4.08
			5.01	5.15
Class	359	OPTICAL: SYSTEMS AND ELEMENTS	901	FOR 000
			333	349
Class	367	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES	1	80
			86	92
			900	FOR 000
			95	191
Art Unit	3646	-----		
Class	244	AERONAUTICS AND ASTRONAUTICS	3.1	3.12
			3.14	3.22
Class	342	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES (E.G., RADAR, RADIO NAVIGATION)	ALL	
Class	376	INDUCED NUCLEAR REACTIONS: PROCESSES, SYSTEMS, AND ELEMENTS	ALL	
Class	976	NUCLEAR TECHNOLOGY	DIG 1	DIG 445
Art Unit	3651	-----		
Class	193	CONVEYORS, CHUTES, SKIDS, GUIDES, AND WAYS	ALL	
Class	198	CONVEYORS: POWER-DRIVEN	ALL	
Class	221	ARTICLE DISPENSING	1	DIG 1
Class	406	CONVEYORS: FLUID CURRENT	ALL	
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	213	244

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3652	-----	-----	-----
Class	294	HANDLING: HAND AND HOIST-LINE IMPLEMENTS	ALL	
Class	414	MATERIAL OR ARTICLE HANDLING	ALL	
Class	901	ROBOTS	ALL	
Art Unit	3653	-----		
Class	221	ARTICLE DISPENSING	FOR 000	
Art Unit	3654	-----		
Class	184	LUBRICATION	ALL	
Class	187	ELEVATOR, INDUSTRIAL LIFT TRUCK, OR STATIONARY LIFT FOR VEHICLE	200 249 300 318 400	246 276 315 379 900
Class	212	TRAVERSING HOISTS	FOR 000 ALL	
Class	226	ADVANCING MATERIAL OF INDETERMINATE LENGTH	ALL	
Class	242	WINDING, TENSIONING, OR GUIDING	ALL	
Class	254	IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE	199 900 DIG 11	417 903 DIG 15
Class	474	ENDLESS BELT POWER TRANSMISSION SYSTEMS OR COMPONENTS	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3655			
-----				
Class	186	MERCHANDISING	ALL	
Class	192	192 CLUTCHES AND POWER-STOP CONTROL	52.3	
Class	194	CHECK-ACTUATED CONTROL MECHANISMS	FOR 116	
Class	209	CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS	ALL	
Class	453	COIN HANDLING	1	44.4
			127.1	FOR 000
			ALL	
Art Unit	3656			
-----				
Class	74	MACHINE ELEMENT OR MECHANISM	500.5	617
			813 C	827
Class	185	MOTORS: SPRING, WEIGHT, OR ANIMAL POWERED	ALL	
Class	271	SHEET FEEDING OR DELIVERING	ALL	
Class	384	BEARINGS	ALL	
Art Unit	3657			
-----				
Class	188	BRAKES	ALL	
Class	267	SPRING DEVICES	ALL	
Class	303	FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS	ALL	
Art Unit	3658			
-----				
Class	74	MACHINE ELEMENT OR MECHANISM	1 R	10.9
			16	388 R
			390	491
			625	810.2
			828	FOR 106
Class	476	FRICTION GEAR TRANSMISSION SYSTEMS OR COMPONENTS	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3659	-----	-----	-----
Class	192	192 CLUTCHES AND POWER-STOP CONTROL	3.21 52.4 FOR 117	52.2 FOR 115 FOR 143
Class	209	CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS	45	70
Class	270	SHEET-MATERIAL ASSOCIATING	ALL	
Class	475	PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS	ALL	
Class	477	INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL	ALL	
Class	701	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION	51	69
Art Unit	3661	-----		
Class	701	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION	1 116 70	50 FOR 133 100
Art Unit	3663	-----		
Class	359	OPTICAL: SYSTEMS AND ELEMENTS	FOR 000	
Art Unit	3664	-----		
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	245 900	264

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3671	-----	-----	-----
Class	14	BRIDGES	ALL	
Class	37	EXCAVATING	ALL	
Class	56	HARVESTERS	ALL	
Class	111	PLANTING	ALL	
Class	171	UNEARTHING PLANTS OR BURIED OBJECTS	ALL	
Class	172	EARTH WORKING	ALL	
Class	404	ROAD STRUCTURE, PROCESS, OR APPARATUS	ALL	
Class	460	CROP THRESHING OR SEPARATING	ALL	
Art Unit	3672	-----		
Class	166	WELLS	177.6 369 50 72 98	244.1 FOR 101 70 74 177.3
Class	175	BORING OR PENETRATING THE EARTH	106	
Class	299	MINING OR IN SITU DISINTEGRATION OF HARD MATERIAL	ALL	
Class	405	HYDRAULIC AND EARTH ENGINEERING	FOR 000	
Class	588	HAZARDOUS OR TOXIC WASTE DESTRUCTION OR CONTAINMENT	249	260
Art Unit	3673	-----		
Class	5	BEDS	1 901	740 FOR 000
Class	70	LOCKS	381	
Class	249	STATIC MOLDS	FOR 000	



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			Subclass Ranges	
Class Title			From	To
Art Unit	3674	-----	-----	-----
Class	5	BEDS	900	
Class	166	WELLS	245	249
			250.12	
			256	263
			268	269
			270.1	276
			279	296
			300	
			304	
			308.2	310
Art Unit	3675	-----		
Class	70	LOCKS	1	380
Class	109	SAFES, BANK PROTECTION, OR A RELATED DEVICE	382	FOR 000
Class	277	SEAL FOR A JOINT OR JUNCTURE	ALL	
Class	292	CLOSURE FASTENERS	ALL	
Art Unit	3676	-----		
Class	166	WELLS	250.01	250.11
			250.13	255.3
			264	267
			270	
			277	278
			297	299
			301	303
			311	313
			71	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3677	-----	-----	-----
Class	16	MISCELLANEOUS HARDWARE (E.G., BUSHING, CARPET FASTENER, CASTER, DOOR CLOSER, PANEL HANGER, ATTACHABLE OR ADJUNCT HANDLE, HINGE, WINDOW SASH BALANCE, ETC.)	ALL	
Class	24	BUCKLES, BUTTONS, CLASPS, ETC.	ALL	
Class	27	UNDERTAKING	1	20
Class	63	JEWELRY	26	FOR 000
Class	232	DEPOSIT AND COLLECTION RECEPTACLES	ALL	
Class	411	EXPANDED, THREADED, DRIVEN, HEADED, TOOL-DEFORMED, OR LOCKED-THREADED FASTENER	ALL	
Art Unit	3678	-----		
Class	405	HYDRAULIC AND EARTH ENGINEERING	1	303
Art Unit	3679	-----		
Class	166	WELLS	177.4	177.5
			305.1	308.1
			316	368
			75.11	97.5
Class	175	BORING OR PENETRATING THE EARTH	1	105
			107	FOR 000
Class	256	FENCES	ALL	
Class	285	PIPE JOINTS OR COUPLINGS	ALL	
Class	403	JOINTS AND CONNECTIONS	ALL	
Class	464	ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS	ALL	
Art Unit	3685	-----		
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	12	79
			50	
			901	FOR 106

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3689	-----	-----	-----
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	1.1 329 342 80	348 318
Art Unit	3693	-----		
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	31 35 4	45
Art Unit	3711	-----		
Class	124	MECHANICAL GUNS AND PROJECTORS	1 4 78	53.5 FOR 000
Class	273	AMUSEMENT DEVICES: GAMES	ALL	
Class	446	AMUSEMENT DEVICES: TOYS	1	901
Class	472	AMUSEMENT DEVICES	ALL	
Class	473	GAMES USING TANGIBLE PROJECTILE	ALL	
Art Unit	3714	-----		
Class	446	AMUSEMENT DEVICES: TOYS	FOR 000	
Class	463	AMUSEMENT DEVICES: GAMES	47.1 58	47.7 FOR 000
Art Unit	3715	-----		
Class	434	EDUCATION AND DEMONSTRATION	ALL	
Class	463	AMUSEMENT DEVICES: GAMES	1 48	47 57
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	91	93

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3721	-----	-----	-----
Class	173	TOOL DRIVING OR IMPACTING	201	
Class	493	MANUFACTURING CONTAINER OR TUBE FROM PAPER; OR OTHER MANUFACTURING FROM A SHEET OR WEB	215 268	
Art Unit	3722	-----		
Class	29	METAL WORKING	26 A 560 650	65 566.4
Class	82	TURNING	ALL	
Class	279	CHUCKS OR SOCKETS	ALL	
Class	407	CUTTERS, FOR SHAPING	ALL	
Class	408	CUTTING BY USE OF ROTATING AXIALLY MOVING TOOL	ALL	
Class	409	GEAR CUTTING, MILLING, OR PLANING	ALL	
Class	483	TOOL CHANGING	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3723	-----	-----	-----
Class	7	COMPOUND TOOLS	ALL	
Class	15	BRUSHING, SCRUBBING, AND GENERAL CLEANING	ALL	
Class	29	METAL WORKING	213.1 243.53	243.517 283.5
Class	81	TOOLS	ALL	
Class	125	STONE WORKING	ALL	
Class	157	WHEELWRIGHT MACHINES	ALL	
Class	254	IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE	1 418 DIG 1 DIG 16	134.7 427 DIG 10 FOR 000
Class	269	WORK HOLDERS	ALL	
Class	300	BRUSH, BROOM, AND MOP MAKING	ALL	
Class	451	ABRADING	ALL	
Art Unit	3724	-----		
Class	30	CUTLERY	ALL	
Class	76	METAL TOOLS AND IMPLEMENTS, MAKING	ALL	
Class	83	CUTTING	ALL	
Class	142	WOOD TURNING	ALL	
Class	225	SEVERING BY TEARING OR BREAKING	ALL	
Class	234	SELECTIVE CUTTING (E.G., PUNCHING)	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3725	-----	-----	-----
Class	29	METAL WORKING	243.518	243.529
Class	59	CHAIN, STAPLE, AND HORSESHOE MAKING	ALL	
Class	72	METAL DEFORMING	ALL	
Class	79	BUTTON MAKING	ALL	
Class	100	PRESSES	ALL	
Class	140	WIREWORKING	ALL	
Class	144	WOODWORKING	ALL	
Class	147	COOPERING	ALL	
Class	163	NEEDLE AND PIN MAKING	ALL	
Class	241	SOLID MATERIAL COMMUNITION OR DISINTEGRATION	ALL	
Class	413	SHEET METAL CONTAINER MAKING	ALL	
Class	470	THREADED, HEADED FASTENER, OR WASHER MAKING: PROCESS AND APPARATUS	ALL	
Art Unit	3726	-----		
Class	29	METAL WORKING	2.1 284 592 700 76.1 765 888 890.11	25 559 728 91.8 824 890.09 DIG 105
Class	492	ROLL OR ROLLER	ALL	
Art Unit	3727	-----		
Class	220	RECEPTACLES	FOR 131	FOR 207

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3728	-----	-----	-----
Class	206	SPECIAL RECEPTACLE OR PACKAGE	237 773	
Art Unit	3729	-----		
Class	29	METAL WORKING	25.35 592.1 729 732 825 890.1	25.42 623  764 887
Class	206	SPECIAL RECEPTACLE OR PACKAGE	FOR 000 FOR 000	
Art Unit	3731	-----		
Class	53	PACKAGE MAKING	ALL	
Class	173	TOOL DRIVING OR IMPACTING	1 202	200 FOR 000
Class	227	ELONGATED-MEMBER-DRIVING APPARATUS	ALL	
Class	493	MANUFACTURING CONTAINER OR TUBE FROM PAPER; OR OTHER MANUFACTURING FROM A SHEET OR WEB	1 216 269	214 267 FOR 000
Class	606	SURGERY	233	
Art Unit	3732	-----		
Class	12	BOOT AND SHOE MAKING	7.6	
Class	28	TEXTILES: MANUFACTURING	183	
Class	87	TEXTILES: BRAIDING, NETTING, AND LACE MAKING	20	
Class	132	TOILET	326	
Class	139	TEXTILES: WEAVING	425 A	
Class	450	FOUNDATION GARMENTS	142	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3735	-----	-----	-----
Class	351	OPTICS: EYE EXAMINING, VISION TESTING AND CORRECTING	FOR 000	
Art Unit	3736	-----		
Class	206	SPECIAL RECEPTACLE OR PACKAGE	.5	6.1
			14	236
			238	277
			300	315.11
			315.9	500
			521	521.1
			521.2	772
			774	833
Art Unit	3737	-----		
Class	128	SURGERY	915	916
			920	925
Art Unit	3741	-----		
Class	60	POWER PLANTS	39.01	269
			722	917
Class	137	FLUID HANDLING	FOR 100	FOR 118
			15.1	
Class	239	FLUID SPRINKLING, SPRAYING, AND DIFFUSING	15.2	
			127.1	127.3
			265.11	265.43
Art Unit	3742	-----		
Class	219	ELECTRIC HEATING	FOR 000	
Art Unit	3743	-----		
Class	110	FURNACES	FOR 000	



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		Class Title	Subclass Ranges	
			From	To
Art Unit	3744	-----	-----	-----
Class	165	HEAT EXCHANGE	DIG 156 DIG 209	
Art Unit	3745	-----		
Class	60	POWER PLANTS	325 532	494 594
Class	91	MOTORS: EXPANSIBLE CHAMBER TYPE	1 508	471 DIG 4
Class	92	EXPANSIBLE CHAMBER DEVICES	ALL	
Class	415	ROTARY KINETIC FLUID MOTORS OR PUMPS	ALL	
Class	416	FLUID REACTION SURFACES (I.E., IMPELLERS)	ALL	
Art Unit	3746	-----		
Class	60	POWER PLANTS	629	
Class	91	MOTORS: EXPANSIBLE CHAMBER TYPE	472 FOR 000	507
Class	417	PUMPS	ALL	
Class	418	ROTARY EXPANSIBLE CHAMBER DEVICES	3	
Art Unit	3747	-----		
Class	123	INTERNAL-COMBUSTION ENGINES	1 A 142.5 E 19 250 46 A 567 FOR 100	3 198.0D C 42 558 89 DIG 13 FOR 128
Class	701	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION	101	115

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3748	-----	-----	-----
Class	60	POWER PLANTS	272 495 595 630	324 531 628 721
Class	123	INTERNAL-COMBUSTION ENGINES	FOR 000 18 A 200 43 A 559.1 90.1	18 R 249 45 R 566 90.67
Class	418	ROTARY EXPANSIBLE CHAMBER DEVICES	FOR 000 1 4	2 FOR 000
Art Unit	3749	-----		
Class	122	LIQUID HEATERS AND VAPORIZERS	FOR 000	FOR 107
Class	126	STOVES AND FURNACES	660 83	
Class	237	HEATING SYSTEMS	FOR 000 30	FOR 139
Class	431	COMBUSTION	FOR 000 13	
Class	432	HEATING	FOR 000 229	
Class	454	VENTILATION	FOR 000 FOR 000	
Art Unit	3751	-----		
Class	4	BATHS, CLOSETS, SINKS, AND SPITTOONS	FOR 000	
Class	401	COATING IMPLEMENTS WITH MATERIAL SUPPLY	FOR 000	
Art Unit	3752	-----		
Class	169	FIRE EXTINGUISHERS	ALL	
Class	239	FLUID SPRINKLING, SPRAYING, AND DIFFUSING	1 128 266	127 265 FOR 000

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3753	-----	-----	-----
Class	137	FLUID HANDLING	1	15.09
			15.11	15.19
Class	138	PIPES AND TUBULAR CONDUITS	15.21	FOR 000
			ALL	
Class	141	FLUENT MATERIAL HANDLING, WITH RECEIVER OR RECEIVER COACTING MEANS	ALL	
Class	251	VALVES AND VALVE ACTUATION	ALL	
Art Unit	3754	-----		
Class	4	BATHS, CLOSETS, SINKS, AND SPITTOONS	111.1	DIG 19
Class	222	DISPENSING	1	589
			608	628
Class	401	COATING IMPLEMENTS WITH MATERIAL SUPPLY	630	FOR 000
			1	DIG 3
Art Unit	3761	-----		
Class	99	FOODS AND BEVERAGES: APPARATUS	ALL	
Class	219	ELECTRIC HEATING	50	780
Class	373	INDUSTRIAL ELECTRIC HEATING FURNACES	ALL	
Class	392	ELECTRIC RESISTANCE HEATING DEVICES	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3762	-----	-----	-----
Class	34	DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS	ALL	
Class	110	FURNACES	101 A	349
Class	122	LIQUID HEATERS AND VAPORIZERS	1 A	DIG 16
Class	126	STOVES AND FURNACES	1 A	82
			661	910
			84	659
Class	237	HEATING SYSTEMS	1 R	29
			31	DIG 1
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	FOR 000	
Class	431	COMBUSTION	1	12
			14	365
Class	432	HEATING	1	228
			230	500
Class	454	VENTILATION	1	909
Art Unit	3763	-----		
Class	62	REFRIGERATION	ALL	
Class	165	HEAT EXCHANGE	4	DIG 155
			DIG 157	DIG 208
			DIG 210	FOR 131
Class	236	AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3765	-----	-----	-----
Class	2	APPAREL	ALL	
Class	12	BOOT AND SHOE MAKING	1 A 7.7	7.5 FOR 000
Class	19	TEXTILES: FIBER PREPARATION	ALL	
Class	26	TEXTILES: CLOTH FINISHING	ALL	
Class	28	TEXTILES: MANUFACTURING	100 184	182 FOR 000
Class	36	BOOTS, SHOES, AND LEGGINGS	ALL	
Class	38	TEXTILES: IRONING OR SMOOTHING	ALL	
Class	57	TEXTILES: SPINNING, TWISTING, AND TWINING	ALL	
Class	66	TEXTILES: KNITTING	ALL	
Class	69	LEATHER MANUFACTURES	ALL	
Class	87	TEXTILES: BRAIDING, NETTING, AND LACE MAKING	1 21	19 FOR 000
Class	112	SEWING	ALL	
Class	139	TEXTILES: WEAVING	1 A 425 R	424 FOR 000
Class	223	APPAREL APPARATUS	ALL	
Class	245	WIRE FABRICS AND STRUCTURE	ALL	
Class	289	KNOTS AND KNOT TYING	ALL	
Class	450	FOUNDATION GARMENTS	1 143	141 FOR 000
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	131	144
Art Unit	3771	-----		
Class	600	SURGERY	184	
Class	606	SURGERY	106 234	232 236
Class	623	PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR	1.11 1.23 2.11	1.12

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Class Title			Subclass Ranges	
			From	To
Art Unit	3772	-----	-----	-----
Class	433	DENTISTRY	ALL	
Art Unit	3773	-----		
Class	600	SURGERY	185	249
Class	606	SURGERY	103 246 53 86 A 900 914	279 68 901
Class	623	PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR	FOR 100 17.11	FOR 103 17.16
Art Unit	3774	-----		
Class	128	SURGERY	898	
Class	623	PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR	1.1 1.13 1.24 17.17 2.12 23.73 23.75 6.13	1.22 2.1 23.71 6.11 FOR 119 16.11
Art Unit	3775	-----		
Class	606	SURGERY	104 280 70 86 B 902 915	105.5 331 85 102 913 916

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3776	-----	-----	-----
Class	132	TOILET	327 53	FOR 000 325
Art Unit	3781	-----		
Class	27	UNDERTAKING	21.1	25.1
Class	150	PURSES, WALLETS, AND PROTECTIVE COVERS	ALL	
Class	190	TRUNKS AND HAND-CARRIED LUGGAGE	ALL	
Class	206	SPECIAL RECEPTACLE OR PACKAGE	278 315.2 501 521.15	299 315.8 520
Class	215	BOTTLES AND JARS	8 ALL	11
Class	217	WOODEN RECEPTACLES	ALL	
Class	220	RECEPTACLES	1.5	FOR 130
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	44	48
Class	604	SURGERY	1 289 540 904 921 FOR 100	18 416 544
Art Unit	3782	-----		
Class	224	PACKAGE AND ARTICLE CARRIERS	ALL	
Class	229	ENVELOPES, WRAPPERS, AND PAPERBOARD BOXES	ALL	
Class	383	FLEXIBLE BAGS	ALL	

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			Subclass Ranges	
			From	To
Class Title				
Art Unit	3783	-----	-----	-----
Class	604	SURGERY	19	288.04
			500	539
			890.1	903
			905	920
			FOR 000	
Art Unit	3784	-----		
Class	482	EXERCISE DEVICES	ALL	
Art Unit	3785	-----		
Class	128	SURGERY	200.11	207.29
Class	601	SURGERY: KINESITHERAPY	1	
			5	FOR 000
Class	606	SURGERY	237	245
Art Unit	3786	-----		
Class	128	SURGERY	830	894
			900	914
			917	919
			95.1	126.1
Class	602	SURGERY: SPLINT, BRACE, OR BANDAGE	DIG 1	FOR 000
			ALL	
Art Unit	3791	-----		
Class	128	SURGERY	897	
			899	
Class	600	SURGERY	1	15
			19	41
			302	371
			398	406
			481	507
			529	595



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			Subclass Ranges	
Class Title			From	To
Art Unit	3792	-----	-----	-----
Class	600	SURGERY	16 300 508	18 301 528
Class	606	SURGERY	1	19
Class	607	SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION	1 115 FOR 000	95 156
Art Unit	3793	-----		
Class	600	SURGERY	407	480
Class	601	SURGERY: KINESITHERAPY	2	4
Art Unit	3794	-----		
Class	600	SURGERY	372 920 FOR 000	397 FOR 000
Class	606	SURGERY	20 FOR 000	52
Class	607	SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION	900 96	902 114
Art Unit	3795	-----		
Class	600	SURGERY	101	183

