

Generated by: Production Data Control Division

		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	449 483 502 64 78.38
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	788.1	
Art Unit	1616	-----		
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	123 40 59 600 65 650 84 900	126 47 60 648 68 724 DIG 16
Class	504	PLANT PROTECTING AND REGULATING COMPOSITIONS	ALL	
Class	552	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
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

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Art Unit	Class	Class Title	Subclass Ranges	
			From	To
1621				
	260	CHEMISTRY OF CARBON COMPOUNDS	1	665 R
	518	CHEMISTRY: FISCHER-TROPSCH PROCESSES; OR PURIFICATION OR RECOVERY OF PRODUCTS THEREOF	ALL	
	532	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
	534	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	FOR 000	
	554	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	FOR 000	
	556	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
	560	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
	562	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1 553	529 FOR 000
	564	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
	568	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
	570	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
	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	ALL	
1622				
	540	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	200 485	483 540
	544	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	244 262 280	252 277 404
	549	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1 346	262 355
	554	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1	231
	558	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1	218

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		Class Title	Subclass Ranges	
			From	To

Art Unit	1623			

Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	23 45	43 62
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1.11 25.1	22.1 128

Art Unit	1624			

Class	540	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1 484 541	145 FOR 000
Class	544	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	1 253 278 405	243 261 279 FOR 000

Art Unit	1625			

Class	546	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	ALL	
Class	548	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	255	269.4
Class	549	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	263 356	345 563
Class	562	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	530	552

Art Unit	1626			

Class	534	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	550 7	DIG 10
Class	548	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	100 300.1	254 FOR 000
Class	549	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	FOR 000	
Class	558	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	230	FOR 000

Art Unit	1629			

Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	649	
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	1 63	788

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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	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	44 R	
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	
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

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1635			
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	91.21 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	1636			
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	327 6.13 69.1	345
Class	506	COMBINATORIAL CHEMISTRY TECHNOLOGY: METHOD, LIBRARY, APPARATUS	FOR 100 1 41	FOR 113 32 43
Art Unit	1637			
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	6.12 91.1	91.2
Art Unit	1638			
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	410 FOR 114	431 FOR 122
Class	800	MULTICELLULAR LIVING ORGANISMS AND UNMODIFIED PARTS THEREOF AND RELATED PROCESSES	260 FOR 101 FOR 105	323.3 FOR 103 FOR 108
Art Unit	1641			
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	3 6.19 7.25 7.5 960	4 7.21 7.95 975
Class	436	CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL TESTING	500 800	546 829
Class	930	PEPTIDE OR PROTEIN SEQUENCE	FOR 000	

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		Class Title	Subclass Ranges	
			From	To
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	440 459 464	454 462 490
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	7.23 19.2 22	19.9
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	333 389.7 860	345 868
Art Unit	1643			
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	131.1 174.1 277.1	136.1
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	387.3 387.7 388.8 391.7	388.85
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
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	FOR 123	FOR 236
Class	436	CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL TESTING	547	548
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	387.2 388.35 388.5 388.75

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1645	-----	-----	-----
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	144.1 146.1 150.1 157.1 163.1 176.1 190.1 193.1 197.11 200.1 234.1 282.1 802 810 812 823	151.1 170.1 184.1 191.1 194.1 201.1 274.1 283.1 803 832
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	257.2 317.1 7.22 7.24 7.3 821	7.4
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	320 331 388.4 388.6 389.5 389.8 390.5 391.9 400 800	332 391.5 394 427 859

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1646			
Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	145.1 158.1 195.11	
Class	514	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	85.1 10.7 11.3 12.4 12.7 16.1 16.4 18.3 18.9 20.6 21.2 21.92	85.7 10.8 11.5
Class	530	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF	300 321 350 395 397	319 330 351
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	147.1 159.1 186.1 196.11 199.1 202.1 281.1 813	149.1 162.1 189.1 233.1 822
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	235.1 456 5	239 457
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	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	13 183 71.1 94	28 234 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	122
			FOR 000	
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	1.1 173.1 242 257.3 29 326 346 70.1 71.3 8 800 815 818 820 822 92	2 182 257.1 282 68.1 408 70.5 90 12 804 816 948 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	1.1 10.4 10.9 11.6 12.5 12.8 16.2 17.2 18.6 20.1 20.7 21.3 5.4 6.1 FOR 100	4.6 10.6 11.2 12.3 12.6 15.9 16.3 18.8 20.5 21.1 21.91 5.7 7.4 FOR 128
Art Unit	1655			

Class	424	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS	195.15 520 571	195.18 569 583

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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	69.6	69.7
Class	536	ORGANIC COMPOUNDS -- PART OF THE CLASS 532-570 SERIES	352	385
Class	930	PEPTIDE OR PROTEIN SEQUENCE	23.6	23.74
			10	40
			100	130
			150	DIG 822
			60	80
Art Unit	1661			
Class	PLT	PLANTS	ALL	
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	698
			704	757
			9	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1714			
Class	117	SINGLE-CRYSTAL, ORIENTED-CRYSTAL, AND EPITAXY GROWTH PROCESSES; NON-COATING APPARATUS THEREFOR	1	958
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	245.1	254
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	296 3 320 9 900 942 965 970	7 321 137.22 904 FOR 118
Art Unit	1722			
Class	252	COMPOSITIONS	299.01	299.7
Class	430	RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF	1 138 297	2 295 319

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1723	-----	-----	-----
Class	48	GAS: HEATING AND ILLUMINATING	ALL	
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	186	186.3
Art Unit	1724	-----		
Class	204	CHEMISTRY: ELECTRICAL AND WAVE ENERGY	ALL	
Class	205	ELECTROLYSIS: PROCESSES, COMPOSITIONS USED THEREIN, AND METHODS OF PREPARING THE COMPOSITIONS	ALL	
Art Unit	1725	-----		
Class	136	BATTERIES: THERMOELECTRIC AND PHOTOELECTRIC	ALL	
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	901

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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
			310	DIG 7
			32.5	34
			36	38.9
Class	149	EXPLOSIVE AND THERMIC COMPOSITIONS OR CHARGES	ALL	
Class	252	COMPOSITIONS	301.4 P	301.6 S
			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	194	DIG 174
			22	33.6
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	1.29
			273.1	284.4
			31.01	31.97
			35	
Class	252	COMPOSITIONS	301.16	301.4 H
			60	62.9P Z
Art Unit	1735	-----		
Class	164	METAL FOUNDING	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	122
Class	252	COMPOSITIONS	372	377
Class	423	CHEMISTRY OF INORGANIC COMPOUNDS	1	659
			DIG 1	FOR 102
Class	502	CATALYST, SOLID SORBENT, OR SUPPORT THEREFOR: PRODUCT OR PROCESS OF MAKING	1	87
			232	FOR 000
Class	505	SUPERCONDUCTOR TECHNOLOGY: APPARATUS, MATERIAL, PROCESS	ALL	
Class	588	HAZARDOUS OR TOXIC WASTE DESTRUCTION OR CONTAINMENT	1	20
			261	FOR 000
Art Unit	1741	-----		
Class	65	GLASS MANUFACTURING	ALL	
Class	162	PAPER MAKING AND FIBER LIBERATION	ALL	

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		Class Title	Subclass Ranges	
			From	To
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
Art Unit	1747	-----		
Class	131	TOBACCO	ALL	
Class	152	RESILIENT TIRES AND WHEELS	151 192 300 331.1 450 DIG 12 DIG 14 DIG 18	169 212 322 373 DIG 6 DIG 16 DIG 19
Class	156	ADHESIVE BONDING AND MISCELLANEOUS CHEMICAL MANUFACTURE	110.1 394.1 906	136 422 907

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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	115.54 404 436	133 939
Class	252	COMPOSITIONS	1 363.5 380 478 67 71 88.1 960	8.05 367.1 407 700 69 79 194
Class	510	CLEANING COMPOSITIONS FOR SOLID SURFACES, AUXILIARY COMPOSITIONS THEREFOR, OR PROCESSES OF PREPARING THE COMPOSITIONS	100 174 220 227 281 295 299 301 307 324 343 394 398 406 437 468 515 536	156 213 225 277 293 297 304 318 341 391 404 434 466 513 528
Class	523	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	462	FOR 254 240 468

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1762			
Class	260	CHEMISTRY OF CARBON COMPOUNDS	998.11	FOR 000
Class	516	COLLOID SYSTEMS AND WETTING AGENTS; SUBCOMBINATIONS THEREOF; PROCESSES OF MAKING, STABILIZING, BREAKING, OR INHIBITING	ALL	
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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Art Unit	Class	Class Title	Subclass Ranges	
			From	To
1765				
	264	PLASTIC AND NONMETALLIC ARTICLE SHAPING OR TREATING: PROCESSES	4.1	4.7
	427	COATING PROCESSES	213.3	213.36
	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	402.2	402.24
	507	EARTH BORING, WELL TREATING, AND OIL FIELD CHEMISTRY	ALL	
	520	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	ALL	
	521	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	40	918
	522	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	ALL	
	523	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	212	214
	524	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	588	
	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
	526	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	279	
	527	SYNTHETIC RESINS OR NATURAL RUBBERS -- PART OF THE CLASS 520 SERIES	ALL	
	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	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
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	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

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Art Unit	Class	Class Title	Subclass Ranges	
			From	To
1771				
	44	FUEL AND RELATED COMPOSITIONS	ALL	
	159	CONCENTRATING EVAPORATORS	ALL	
	196	MINERAL OILS: APPARATUS	ALL	
	201	DISTILLATION: PROCESSES, THERMOLYTIC	ALL	
	202	DISTILLATION: APPARATUS	ALL	
	203	DISTILLATION: PROCESSES, SEPARATORY	ALL	
	208	MINERAL OILS: PROCESSES AND PRODUCTS	ALL	
	442	FABRIC (WOVEN, KNITTED, OR NONWOVEN TEXTILE OR CLOTH, ETC.)	FOR 000	
	508	SOLID ANTI-FRICTION DEVICES, MATERIALS THEREFOR, LUBRICANT OR SEPARANT COMPOSITIONS FOR MOVING SOLID SURFACES, AND MISCELLANEOUS MINERAL OIL COMPOSITIONS	ALL	
	585	CHEMISTRY OF HYDROCARBON COMPOUNDS	725	FOR 000
1772				
	127	SUGAR, STARCH, AND CARBOHYDRATES	1	28
	585	CHEMISTRY OF HYDROCARBON COMPOUNDS	DIG 1 1	FOR 000 724
1773				
	252	COMPOSITIONS	408.1	
	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	116 243 310 49	119 244 948 98
	506	COMBINATORIAL CHEMISTRY TECHNOLOGY: METHOD, LIBRARY, APPARATUS	33	40
	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	266	274

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1774			
Class	366	AGITATING	1	DIG 4
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	105 129 187	115 185 242
Class	494	IMPERFORATE BOWL: CENTRIFUGAL SEPARATORS	FOR 100 ALL	FOR 122
Art Unit	1775			
Class	55	GAS SEPARATION	DIG 1	FOR 000
Class	95	GAS SEPARATION: PROCESSES	FOR 000	
Class	96	GAS SEPARATION: APPARATUS	FOR 000	FOR 176
Class	366	AGITATING	FOR 000	
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	1 120 255	43 128 309
Class	435	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY	283.1 805 817 819 FOR 000	309.4 814
Art Unit	1776			
Class	55	GAS SEPARATION	282	529
Class	95	GAS SEPARATION: PROCESSES	1	903
Class	96	GAS SEPARATION: APPARATUS	1	429
Class	209	CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS	162	170
Class	261	GAS AND LIQUID CONTACT APPARATUS	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1777	-----	-----	-----
Class	436	CHEMISTRY: ANALYTICAL AND IMMUNOLOGICAL TESTING	1 900	183 FOR 000
Art Unit	1778	-----		
Class	210	LIQUID PURIFICATION OR SEPARATION	ALL	
Art Unit	1781	-----		
Class	426	FOOD OR EDIBLE MATERIAL: PROCESSES, COMPOSITIONS, AND PRODUCTS	1 105 135 140 246 249 315 317 329 384 391 417 422 439 474 530 89 92	74 311 323 335 388 437 463 495 665 103

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1782			
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	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	34.1 34.6 36.5	34.4 35.9 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
Art Unit	1784			
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	116 2 209 39 408 426 432 446 448 452	118 32 210 410 428 434 450 454

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		Class Title	Subclass Ranges	
			From	To
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	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	190	
			193	
			196	197
			221	301.4
			34.5	
			357	401
			36.1	36.4
			37	
			690	
			85	97
Class	442	FABRIC (WOVEN, KNITTED, OR NONWOVEN TEXTILE OR CLOTH, ETC.)	1 FOR 100	417 FOR 167
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

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		Class Title	Subclass Ranges	
			From	To
Art Unit	1788	-----	-----	-----
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	304.4 322.2 343 40.1 402 403	319.9 322.7 355 N 42.3 407
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	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	FOR 102	FOR 134
Art Unit	1795	-----		
Class	429	CHEMISTRY: ELECTRICAL CURRENT PRODUCING APPARATUS, PRODUCT, AND PROCESS	FOR 000	FOR 144
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	1798	-----		
Class	428	STOCK MATERIAL OR MISCELLANEOUS ARTICLES	1.1	1.62

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2111	-----	-----	-----
Class	710	ELECTRICAL COMPUTERS AND DIGITAL DATA PROCESSING SYSTEMS: INPUT/OUTPUT	100	317
Art Unit	2112	-----		
Class	714	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY	746	824
Art Unit	2113	-----		
Class	714	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY	1 E11 FOR 306	100 E11.22 FOR 313
Art Unit	2115	-----		
Class	713	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: SUPPORT	1 300 FOR 400	100 601
Art Unit	2117	-----		
Class	714	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY	699	745
Art Unit	2121	-----		
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	130 FOR 000	FOR 106
Class	706	DATA PROCESSING: ARTIFICIAL INTELLIGENCE	900	FOR 131
Art Unit	2123	-----		
Class	703	DATA PROCESSING: STRUCTURAL DESIGN, MODELING, SIMULATION, AND EMULATION	1 13 FOR 488	10 28 FOR 806

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2127	-----	-----	-----
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	1 145 265 275 95	90 212 306 129
Art Unit	2129	-----		
Class	706	DATA PROCESSING: ARTIFICIAL INTELLIGENCE	1	62
Art Unit	2131	-----		
Class	713	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: SUPPORT	FOR 000	
Art Unit	2161	-----		
Class	707	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES	ALL	
Art Unit	2172	-----		
Class	715	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT, OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING	700	867
Art Unit	2173	-----		
Class	715	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT, OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING	961 FOR 176	978 FOR 208
Art Unit	2176	-----		
Class	715	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT, OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING	FOR 000 FOR 209	FOR 264

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2178	-----	-----	-----
Class	715	DATA PROCESSING: PRESENTATION PROCESSING OF DOCUMENT, OPERATOR INTERFACE PROCESSING, AND SCREEN SAVER DISPLAY PROCESSING	200	277
Art Unit	2182	-----		
Class	710	ELECTRICAL COMPUTERS AND DIGITAL DATA PROCESSING SYSTEMS: INPUT/OUTPUT	1	74
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	2189	-----		
Class	711	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MEMORY	ALL	
Art Unit	2192	-----		
Class	717	DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND MANAGEMENT	100	178
Art Unit	2193	-----		
Class	708	ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING AND CALCULATING	ALL	
Class	717	DATA PROCESSING: SOFTWARE DEVELOPMENT, INSTALLATION, AND MANAGEMENT	FOR 000	

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		Class Title	Subclass Ranges	
			From	To
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 COMMUNICATION (IPC)	310	332
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	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2431	-----	-----	-----
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	2447	-----		
Class	709	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING	ALL	
Art Unit	2472	-----		
Class	370	MULTIPLEX COMMUNICATIONS	200	361
Art Unit	2479	-----		
Class	370	MULTIPLEX COMMUNICATIONS	362	FOR 197
Art Unit	2482	-----		
Class	375	PULSE OR DIGITAL COMMUNICATIONS	240.01	240.29
Art Unit	2484	-----		
Class	386	MOTION VIDEO SIGNAL PROCESSING FOR RECORDING OR REPRODUCING	ALL	
Art Unit	2486	-----		
Class	348	TELEVISION	25 384.1 699 818	172 440.1 702 843

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2611	-----	-----	-----
Class	375	PULSE OR DIGITAL COMMUNICATIONS	130 241	240 FOR 109
Art Unit	2612	-----		
Class	340	COMMUNICATIONS: ELECTRICAL	1.1 286.01 FOR 100	16.1 999 FOR 472
Class	341	CODED DATA GENERATION OR CONVERSION	173 20	192 35
Class	348	TELEVISION	FOR 161 FOR 184	FOR 162 FOR 212
Class	367	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES	197 81 93	199 85 94
Art Unit	2613	-----		
Class	348	TELEVISION	FOR 000	FOR 160
Class	398	OPTICAL COMMUNICATIONS	ALL	
Art Unit	2614	-----		
Class	348	TELEVISION	14.01 FOR 163	14.16 FOR 183
Class	379	TELEPHONIC COMMUNICATIONS	1.01 67.1	52 FOR 197
Class	381	ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES	ALL	
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	94	
Art Unit	2617	-----		
Class	455	TELECOMMUNICATIONS	400 550.1	466 575.9

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2618	-----	-----	-----
Class	379	TELEPHONIC COMMUNICATIONS	55.1	56.3
Class	455	TELECOMMUNICATIONS	1	355
			500	528
			701	899
			FOR 106	FOR 254
Art Unit	2621	-----		
Class	382	IMAGE ANALYSIS	FOR 000	
Art Unit	2622	-----		
Class	348	TELEVISION	207.1	376
			E13.054	
Art Unit	2624	-----		
Class	382	IMAGE ANALYSIS	100	325
Art Unit	2625	-----		
Class	358	FACSIMILE AND STATIC PRESENTATION PROCESSING	ALL	
Art Unit	2626	-----		
Class	704	DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2627			
Class	360	DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL	ALL	
Class	369	DYNAMIC INFORMATION STORAGE OR RETRIEVAL	1	300
Class	720	DYNAMIC OPTICAL INFORMATION STORAGE OR RETRIEVAL	FOR 100	FOR 157
Class	G9B	INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN RECORD CARRIER AND TRANSDUCER	ALL	
Art Unit	2628			
Class	345	COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY SYSTEMS	418 947	689 FOR 220
Art Unit	2629			
Class	178	TELEGRAPHY	ALL	
Class	345	COMPUTER GRAPHICS PROCESSING AND SELECTIVE VISUAL DISPLAY SYSTEMS	1.1 690	215 905
Art Unit	2655			
Class	369	DYNAMIC INFORMATION STORAGE OR RETRIEVAL	FOR 000	
Art Unit	2681			
Class	455	TELECOMMUNICATIONS	FOR 000	
Art Unit	2763			
Class	703	DATA PROCESSING: STRUCTURAL DESIGN, MODELING, SIMULATION, AND EMULATION	FOR 000	
Art Unit	2782			
Class	710	ELECTRICAL COMPUTERS AND DIGITAL DATA PROCESSING SYSTEMS: INPUT/OUTPUT	FOR 000	

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		Class Title	Subclass Ranges	
			From	To
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	E21.034 FOR 135	E51.052 FOR 136
Art Unit	2812	-----		
Class	29	METAL WORKING	25.01	25.03
Class	438	SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS	1 10 699 758 982 FOR 140 FOR 150 FOR 159	8 688 703 979 983 FOR 144 FOR 144 FOR 498
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

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2814	-----	-----	-----
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	1 900 FOR 000	E21
Art Unit	2816	-----		
Class	327	MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR DEVICES, CIRCUITS, AND SYSTEMS	ALL	
Class	340	COMMUNICATIONS: ELECTRICAL	146.2 FOR 000	
Class	377	ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR SHIFT REGISTERS: CIRCUITS AND SYSTEMS	ALL	
Art Unit	2817	-----		
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	
Art Unit	2818	-----		
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21	E21
Art Unit	2819	-----		
Class	326	ELECTRONIC DIGITAL LOGIC CIRCUITRY	ALL	
Class	341	CODED DATA GENERATION OR CONVERSION	1 200 50	17 FOR 000 172

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2821			
Class	315	ELECTRIC LAMP AND DISCHARGE DEVICES: SYSTEMS	ALL	
Class	343	COMMUNICATIONS: RADIO WAVE ANTENNAS	ALL	
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	2825			
Class	716	COMPUTER-AIDED DESIGN AND ANALYSIS OF CIRCUITS AND SEMICONDUCTOR MASKS	ALL	
Art Unit	2826			
Class	257	ACTIVE SOLID-STATE DEVICES (E.G., TRANSISTORS, SOLID-STATE DIODES)	E21.016	E21.018
Art Unit	2827			
Class	174	ELECTRICITY: CONDUCTORS AND INSULATORS	DIG 20	
Class	365	STATIC INFORMATION STORAGE AND RETRIEVAL	ALL	
Art Unit	2828			
Class	372	COHERENT LIGHT GENERATORS	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2831			
Class	174	ELECTRICITY: CONDUCTORS AND INSULATORS	15.4 DIG 1 DIG 21 FOR 100	15.5 DIG 19 DIG 35 FOR 117
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	434	436
Art Unit	2832			
Class	84	MUSIC	1	DIG 30
Class	181	ACOUSTICS	.5 404	296
Class	335	ELECTRICITY: MAGNETICALLY OPERATED SWITCHES, MAGNETS, AND ELECTROMAGNETS	ALL	
Class	336	INDUCTOR DEVICES	ALL	
Class	338	ELECTRICAL RESISTORS	FOR 000	
Class	984	MUSICAL INSTRUMENTS	ALL	
Art Unit	2833			
Class	200	ELECTRICITY: CIRCUIT MAKERS AND BREAKERS	ALL	
Class	218	HIGH-VOLTAGE SWITCHES WITH ARC PREVENTING OR EXTINGUISHING DEVICES	ALL	
Class	290	PRIME-MOVER DYNAMO PLANTS	ALL	
Class	322	ELECTRICITY: SINGLE GENERATOR SYSTEMS	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 DIG 2	310 433 FOR 111

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2835			
Class	174	ELECTRICITY: CONDUCTORS AND INSULATORS	1 15.6 FOR 000	15.3 669
Class	337	ELECTRICITY: ELECTROTHERMALLY OR THERMALLY ACTUATED SWITCHES	ALL	
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	271 500 FOR 102	330 837 FOR 110
Art Unit	2836			
Class	307	ELECTRICAL TRANSMISSION OR INTERCONNECTION SYSTEMS	ALL	
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	1 35 437 FOR 100	19 270 FOR 101
Art Unit	2837			
Class	84	MUSIC	FOR 000	
Class	181	ACOUSTICS	400 FOR 000	403
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	311 800	371
Class	318	ELECTRICITY: MOTIVE POWER SYSTEMS	ALL	
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	20	34
Class	388	ELECTRICITY: MOTOR CONTROL SYSTEMS	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	2841	-----	-----	-----
Class	361	ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES	FOR 000	
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	1 48 53 900 94	20 67 FOR 000 170
Art Unit	2854	-----		
Class	101	PRINTING	ALL	
Class	199	TYPE CASTING	ALL	
Class	270	SHEET-MATERIAL ASSOCIATING	1.01	22.1
Class	276	TYPESETTING	ALL	
Class	399	ELECTROPHOTOGRAPHY	16 361	23 410
Class	400	TYPEWRITING MACHINES	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2856	-----	-----	-----
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	
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	
Art Unit	2861	-----		
Class	347	INCREMENTAL PRINTING OF SYMBOLIC INFORMATION	171 21 49 68	264 47 52 93
Art Unit	2871	-----		
Class	349	LIQUID CRYSTAL CELLS, ELEMENTS AND SYSTEMS	ALL	

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		Class Title	Subclass Ranges	
			From	To
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	
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

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		Class Title	Subclass Ranges	
			From	To
Art Unit		2878		

Class	250	RADIANT ENERGY	200 548 900 DIG 1	239 578.1 908 DIG 2
Class	352	OPTICS: MOTION PICTURES	ALL	
Class	353	OPTICS: IMAGE PROJECTORS	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	
Art Unit		2881		

Class	250	RADIANT ENERGY	250 281 302 309 396 R 489 FOR 000	251 300 307 326 455.11 526
Class	850	SCANNING-PROBE TECHNIQUES OR APPARATUS; APPLICATIONS OF SCANNING-PROBE TECHNIQUES, E.G., SCANNING PROBE MICROSCOPY [SPM]	ALL	
Art Unit		2882		

Class	355	PHOTOCOPYING	ALL	
Class	378	X-RAY OR GAMMA RAY SYSTEMS OR DEVICES	ALL	
Art Unit		2883		

Class	385	OPTICAL WAVEGUIDES	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2884			
Class	250	RADIANT ENERGY	252.1 301 308 328 458.1 580 909	271 395 488.1 591 910
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

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		Class Title	Subclass Ranges	
			From	To
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	13 349 381
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 82	166 170 180 186 216 345 411 133
Class	D13	EQUIPMENT FOR PRODUCTION, DISTRIBUTION, OR TRANSFORMATION OF ENERGY	103 119 133 162.1	109 121 157
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	200 212 314	211 232 499

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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	300.2	
			401.1	
			502	
			504	
			508	
			589	641
			665	697
			700	710
Class	D 8	TOOLS AND HARDWARE	14	
			21	29
			300	302
			305	329
			31	32
			350	353
			382	499
			44	50
			75	101
Class	D 9	PACKAGES AND CONTAINERS FOR GOODS	414	433
			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

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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 5	TEXTILE OR PAPER YARD GOODS; SHEET MATERIAL	ALL	
Class	D 6	FURNISHINGS	300 329 345 360 575	314 339 353 511 635
Class	D 7	EQUIPMENT FOR PREPARING OR SERVING FOOD OR DRINK NOT ELSEWHERE SPECIFIED	213 301 325 352 376 401.2 409 503 505 509 642 698 900	300.1 322 330 361 401 501 507 588 664 699 901
Class	D 8	TOOLS AND HARDWARE	1 102 14.1 29.1 303 33 51	107 20 30 43 74
Class	D 9	PACKAGES AND CONTAINERS FOR GOODS	434	499
Class	D10	MEASURING, TESTING, OR SIGNALLING INSTRUMENTS	1 122 47	46 132 103
Class	D11	JEWELRY, SYMBOLIC INSIGNIA, AND ORNAMENTS	143 165	156 183
Class	D12	TRANSPORTATION	1 17 204 406 412 421	16 52 213 419 901
Class	D13	EQUIPMENT FOR PRODUCTION, DISTRIBUTION, OR TRANSFORMATION OF ENERGY	100 110 122 158 163	102 118 132 162 199

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		Class Title	Subclass Ranges	
			From	To
Art Unit	2914			
Class	D 2	APPAREL AND HABERDASHERY	700 896	864 970
Class	D 3	TRAVEL GOODS AND PERSONAL BELONGINGS	1 203.1 205 218 271.1 303 315 900	200 203.8 215 268 271.9 317 905
Class	D 6	FURNISHINGS	340 355	344 359
Class	D 7	EQUIPMENT FOR PREPARING OR SERVING FOOD OR DRINK NOT ELSEWHERE SPECIFIED	323 331 362 402	324 351 375 408
Class	D 9	PACKAGES AND CONTAINERS FOR GOODS	600	748
Class	D11	JEWELRY, SYMBOLIC INSIGNIA, AND ORNAMENTS	1 200	116 241
Class	D12	TRANSPORTATION	159 167 171 181 183 187 197 217 219 222 400 403	162 172 195 203 220 401 405
Class	D15	MACHINES NOT ELSEWHERE SPECIFIED	6	9.3
Class	D18	PRINTING AND OFFICE MACHINERY	14 35 50 55	33 54 99
Class	D22	ARMS, PYROTECHNICS, HUNTING AND FISHING EQUIPMENT	ALL	
Class	D23	ENVIRONMENTAL HEATING AND COOLING; FLUID HANDLING AND SANITARY EQUIPMENT	238 249 270	243 258 313
Class	D24	MEDICAL AND LABORATORY EQUIPMENT	100 211	209 234
Class	D25	BUILDING UNITS AND CONSTRUCTION ELEMENTS	1 119	101 199

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3611			

Class	40	CARD, PICTURE, OR SIGN EXHIBITING	ALL	
Class	180	MOTOR VEHICLES	116	164
			182	207.3
			218	231
			233	267
			36	40
			400	908
Class	280	LAND VEHICLES	6.2	19.3
			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	3614			

Class	124	MECHANICAL GUNS AND PROJECTORS	54	55

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3616	-----	-----	-----

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	25 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	1.1 300 304 306 313 342 500	301 328 348 912
Art Unit	3632			
Class	248	SUPPORTS	ALL	
Art Unit	3633			
Class	5	BEDS	901 911	
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	211	SUPPORTS: RACKS	ALL	
Class	249	STATIC MOLDS	1 188 207	51 196 219.2
Class	312	SUPPORTS: CABINET STRUCTURE	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	111	PLANTING	ALL	
Class	114	SHIPS	20.1 238 FOR 000	25 241
Class	124	MECHANICAL GUNS AND PROJECTORS	2 56	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	139.01 141.1 152.1 28 3.01 5.01 901	139.1 141.5 152.3 29 4.08 5.15 FOR 000
Class	359	OPTICAL: SYSTEMS AND ELEMENTS	333	349
Class	367	COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES	1 86 900 95	80 92 FOR 000 191
Art Unit	3646			
Class	244	AERONAUTICS AND ASTRONAUTICS	3.1 3.14	3.12 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	270	SHEET-MATERIAL ASSOCIATING	30.01	FOR 000
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	186	MERCHANDISING	ALL	
Class	194	CHECK-ACTUATED CONTROL MECHANISMS	ALL	
Class	209	CLASSIFYING, SEPARATING, AND ASSORTING SOLIDS	1 171	161 FOR 000
Class	221	ARTICLE DISPENSING	FOR 000	
Class	271	SHEET FEEDING OR DELIVERING	ALL	
Class	453	COIN HANDLING	ALL	
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	417 903
Class	474	ENDLESS BELT POWER TRANSMISSION SYSTEMS OR COMPONENTS	DIG 11 ALL	DIG 15

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3655			
Class	192	CLUTCHES AND POWER-STOP CONTROL	ALL	
Class	475	PLANETARY GEAR TRANSMISSION SYSTEMS OR COMPONENTS	ALL	
Class	477	INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL	ALL	
Art Unit	3656			
Class	74	MACHINE ELEMENT OR MECHANISM	500.5 813 C	617 827
Class	185	MOTORS: SPRING, WEIGHT, OR ANIMAL POWERED	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 625 828	500 810.2 FOR 106
Class	476	FRICITION GEAR TRANSMISSION SYSTEMS OR COMPONENTS	ALL	
Art Unit	3661			
Class	701	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION	1 116	100 FOR 133
Art Unit	3663			
Class	359	OPTICAL: SYSTEMS AND ELEMENTS	FOR 000	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3664	-----	-----	-----
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	245 900	264
Art Unit	3671	-----		
Class	14	BRIDGES	ALL	
Class	37	EXCAVATING	ALL	
Class	56	HARVESTERS	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	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3672	-----	-----	-----
Class	166	WELLS	247	250.04
			250.07	250.11
			250.13	
			250.15	251.1
			252.2	
			252.4	252.5
			253.1	255.3
			264	265
			277	278
			284	
			286	287
			289	290
			296	298
			301	302
			311	
			313	334.4
			369	387
			50	70
			72	245
			901	FOR 101
Class	175	BORING OR PENETRATING THE EARTH	1	4.6
			11	62
			72	FOR 000
Class	299	MINING OR IN SITU DISINTEGRATION OF HARD MATERIAL	ALL	
Class	405	HYDRAULIC AND EARTH ENGINEERING	ALL	
Class	588	HAZARDOUS OR TOXIC WASTE DESTRUCTION OR CONTAINMENT	249	260
Art Unit	3673	-----		
Class	5	BEDS	1	900
			902	910
			913	FOR 000
Class	70	LOCKS	ALL	
Class	109	SAFES, BANK PROTECTION, OR A RELATED DEVICE	ALL	
Class	249	STATIC MOLDS	FOR 000	

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Class Title			Subclass Ranges	
			From	To
Art Unit	3674			
Class	166	WELLS	335	368
Class	175	BORING OR PENETRATING THE EARTH	5	10
Class	277	SEAL FOR A JOINT OR JUNCTURE	ALL	
Class	292	CLOSURE FASTENERS	ALL	
Art Unit	3676			
Class	166	WELLS	246 250.05 250.12 250.14 252.1 252.3 252.6 256 266 279 285 288 291 299 303 312 400 71	250.06 263 276 283 295 300 310 403 71
Class	175	BORING OR PENETRATING THE EARTH	64	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 26	20 FOR 000
Class	63	JEWELRY	ALL	
Class	232	DEPOSIT AND COLLECTION RECEPTACLES	ALL	
Class	411	EXPANDED, THREADED, DRIVEN, HEADED, TOOL-DEFORMED, OR LOCKED-THREADED FASTENER	ALL	
Art Unit	3679			
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 50 FOR 000 FOR 124	79 FOR 106
Art Unit	3689			
Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	302 305 307 329 80	303 312

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3693			

Class	705	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION	35 4	45
Art Unit	3711			

Class	124	MECHANICAL GUNS AND PROJECTORS	1 4	53.5
Class	273	AMUSEMENT DEVICES: GAMES	78 ALL	FOR 000
Class	446	AMUSEMENT DEVICES: TOYS	1	901
Class	463	AMUSEMENT DEVICES: GAMES	47.1 58	47.7 69
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	1 48 FOR 000	47 57
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	91	93
Art Unit	3715			

Class	434	EDUCATION AND DEMONSTRATION	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3721	-----	-----	-----
Class	53	PACKAGE MAKING	ALL	
Class	173	TOOL DRIVING OR IMPACTING	ALL	
Class	227	ELONGATED-MEMBER-DRIVING APPARATUS	ALL	
Class	493	MANUFACTURING CONTAINER OR TUBE FROM PAPER; OR OTHER MANUFACTURING FROM A SHEET OR WEB	ALL	
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	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3724	-----	-----	-----
Class	30	CUTLERY	ALL	
Class	76	METAL TOOLS AND IMPLEMENTS, MAKING	ALL	
Class	82	TURNING	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	
Class	407	CUTTERS, FOR SHAPING	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 COMMINUTION OR DISINTEGRATION	ALL	
Class	281	BOOKS, STRIPS, AND LEAVES	ALL	
Class	283	PRINTED MATTER	ALL	
Class	402	BINDER DEVICE RELEASABLY ENGAGING APERTURE OR NOTCH OF SHEET	ALL	
Class	412	BOOKBINDING: PROCESS AND APPARATUS	ALL	
Class	413	SHEET METAL CONTAINER MAKING	ALL	
Class	462	BOOKS, STRIPS, AND LEAVES FOR MANIFOLDING	ALL	
Class	470	THREADED, HEADED FASTENER, OR WASHER MAKING: PROCESS AND APPARATUS	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3726			
Class	29	METAL WORKING	2.1 26 A 284 650 765 888 890.11	25 91.8 592 728 824 890.09 DIG 105
Class	279	CHUCKS OR SOCKETS	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	
Class	492	ROLL OR ROLLER	ALL	
Art Unit	3727			
Class	220	RECEPTACLES	FOR 131	FOR 207
Art Unit	3728			
Class	206	SPECIAL RECEPTACLE OR PACKAGE	.5 14 300 315.9 521 521.2	6.1 277 315.11 500 521.1 833
Art Unit	3729			
Class	29	METAL WORKING	25.35 592.1 729 732 825 890.1 FOR 000	25.42 623 764 887
Class	206	SPECIAL RECEPTACLE OR PACKAGE	FOR 000	

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			Subclass Ranges	
Class Title			From	To
Art Unit	3731			

Class	600	SURGERY	184	
Class	606	SURGERY	107	
			110	128
			131	137
			159	190
Class	623	PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR	6.12	
Art Unit	3732			

Class	433	DENTISTRY	ALL	
Art Unit	3733			

Class	600	SURGERY	185	249
Class	606	SURGERY	103	
			246	279
			53	68
			86 A	
			900	901
			914	
			FOR 100	FOR 103
Class	623	PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR	17.11	17.16
Art Unit	3734			

Class	606	SURGERY	106	
			108	109
			129	130
			191	212
			234	236
Class	623	PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR	1.11	1.12

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			Subclass Ranges	
Class Title			From	To
Art Unit	3735			
Class	128	SURGERY	897	
Class	351	OPTICS: EYE EXAMINING, VISION TESTING AND CORRECTING	899	
Class	600	SURGERY	FOR 000	
			1	15
			19	41
			302	308
			345	371
			481	507
			529	545
Art Unit	3736			
Class	600	SURGERY	398	406
			546	595
Art Unit	3737			
Class	128	SURGERY	915	916
Class	600	SURGERY	920	925
Class	601	SURGERY: KINESITHERAPY	407	480
			2	4
Art Unit	3738			
Class	128	SURGERY	898	
Class	623	PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR	1.1	
			1.13	1.22
			1.24	2.1
			17.17	23.71
			2.12	6.11
			23.73	
			23.75	FOR 119
			6.13	16.11

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3739			

Class	600	SURGERY	372	397
			920	FOR 000
Class	606	SURGERY	20	52
			FOR 000	
Class	607	SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION	900	902
			96	114
Art Unit	3741			

Class	60	POWER PLANTS	39.01	269
			722	917
			FOR 100	FOR 118
Class	137	FLUID HANDLING	15.1	
			15.2	
Class	239	FLUID SPRINKLING, SPRAYING, AND DIFFUSING	127.1	127.3
			265.11	265.43
Art Unit	3742			

Class	99	FOODS AND BEVERAGES: APPARATUS	ALL	
Class	219	ELECTRIC HEATING	ALL	
Class	373	INDUSTRIAL ELECTRIC HEATING FURNACES	ALL	
Class	392	ELECTRIC RESISTANCE HEATING DEVICES	ALL	
Art Unit	3743			

Class	34	DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS	ALL	
Class	110	FURNACES	ALL	
Art Unit	3744			

Class	62	REFRIGERATION	ALL	
Class	165	HEAT EXCHANGE	ALL	
Class	236	AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3745	-----	-----	-----
Class	60	POWER PLANTS	325	494
			532	594
Class	91	MOTORS: EXPANSIBLE CHAMBER TYPE	1	471
			508	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	91	MOTORS: EXPANSIBLE CHAMBER TYPE	472	507
			FOR 000	
Class	417	PUMPS	ALL	
Art Unit	3747	-----		
Class	123	INTERNAL-COMBUSTION ENGINES	143 A	184.1
			185.1	185.9
			250	310
			319	521
			531	535
			568.11	568.32
			594	656
			672	DIG 13
			FOR 100	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 FOR 000	324 531 721
Class	123	INTERNAL-COMBUSTION ENGINES	18 A 200 43 A 559.1 90.1 FOR 000	18 R 249 45 R 566 90.67
Class	418	ROTARY EXPANSIBLE CHAMBER DEVICES	ALL	
Art Unit	3749			

Class	122	LIQUID HEATERS AND VAPORIZERS	ALL	
Class	126	STOVES AND FURNACES	ALL	
Class	237	HEATING SYSTEMS	ALL	
Class	431	COMBUSTION	ALL	
Class	432	HEATING	ALL	
Class	454	VENTILATION	ALL	
Art Unit	3751			

Class	4	BATHS, CLOSETS, SINKS, AND SPITTOONS	ALL	
Class	141	FLUENT MATERIAL HANDLING, WITH RECEIVER OR RECEIVER COACTING MEANS	ALL	
Class	401	COATING IMPLEMENTS WITH MATERIAL SUPPLY	ALL	
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 15.11 15.21	15.09 15.19 FOR 000
Class	251	VALVES AND VALVE ACTUATION	ALL	
Art Unit	3754	-----		
Class	138	PIPES AND TUBULAR CONDUITS	ALL	
Class	222	DISPENSING	1 608 630	589 628 FOR 000
Art Unit	3761	-----		
Class	27	UNDERTAKING	21.1	25.1
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 FOR 104
Art Unit	3762	-----		
Class	422	CHEMICAL APPARATUS AND PROCESS DISINFECTING, DEODORIZING, PRESERVING, OR STERILIZING	FOR 000	
Class	607	SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION	FOR 000	
Art Unit	3763	-----		
Class	604	SURGERY	288.02 57 900 905 FOR 000	288.04 168.01 903 920

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3764	-----	-----	-----
Class	482	EXERCISE DEVICES	ALL	
Art Unit	3765	-----		
Class	2	APPAREL	ALL	
Class	12	BOOT AND SHOE MAKING	ALL	
Class	19	TEXTILES: FIBER PREPARATION	ALL	
Class	26	TEXTILES: CLOTH FINISHING	ALL	
Class	28	TEXTILES: MANUFACTURING	ALL	
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	ALL	
Class	112	SEWING	ALL	
Class	139	TEXTILES: WEAVING	ALL	
Class	223	APPAREL APPARATUS	ALL	
Class	245	WIRE FABRICS AND STRUCTURE	ALL	
Class	289	KNOTS AND KNOT TYING	ALL	
Class	450	FOUNDATION GARMENTS	ALL	
Class	700	DATA PROCESSING: GENERIC CONTROL SYSTEMS OR SPECIFIC APPLICATIONS	131	144

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3766			
Class	600	SURGERY	16 508	18 528
Class	607	SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION	1 115	76 156
Art Unit	3767			
Class	604	SURGERY	170.01 19 500 890.1	288.01 48 539 892.1
Art Unit	3769			
Class	600	SURGERY	300	301
Class	606	SURGERY	1	19
Class	607	SURGERY: LIGHT, THERMAL, AND ELECTRICAL APPLICATION	77	95
Art Unit	3771			
Class	128	SURGERY	200.11	207.29
Class	601	SURGERY: KINESITHERAPY	1 5	
Class	606	SURGERY	237	FOR 000 245
Art Unit	3772			
Class	128	SURGERY	830 900 917 95.1 DIG 1	894 914 919 126.1 FOR 000
Class	602	SURGERY: SPLINT, BRACE, OR BANDAGE	ALL	

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		Class Title	Subclass Ranges	
			From	To
Art Unit	3773	-----	-----	-----
Class	606	SURGERY	138	158
			213	233
Class	623	PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR	1.23	
			2.11	
			23.72	
			23.74	
Art Unit	3775	-----		
Class	606	SURGERY	104	105.5
			280	331
			70	85
			86 B	102
			902	913
			915	916
Art Unit	3776	-----		
Class	132	TOILET	ALL	
Art Unit	3777	-----		
Class	600	SURGERY	309	344
Art Unit	3779	-----		
Class	600	SURGERY	101	183

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			Subclass Ranges	
Class Title			From	To
Art Unit	3781			
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
Art Unit	3782			
Class	224	PACKAGE AND ARTICLE CARRIERS	ALL	
Class	229	ENVELOPES, WRAPPERS, AND PAPERBOARD BOXES	ALL	
Class	383	FLEXIBLE BAGS	ALL	
Art Unit	3783			
Class	123	INTERNAL-COMBUSTION ENGINES	1 A 142.5 E 184.21 188.1 19 311 46 A 522 536 567 572 657	3 142.5 R 184.61 198.0D C 42 318 89 530 558 593 671