U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1894

MAY 4, 2010

PROJECT C-7172

The following classification changes will be effected by this order:

	Class	**Subclass**	**Art Unit**	**Ex'r Search Room**
Abolished:	429	12-46	1795	RND0000A51
Established:	429	400-535	1795	RND0000A51
Cross-Reference Art Collections:		900, 901		

The following classes are also impacted by this order:
29, 48, 204, 205, 210, 427, 428, 431, 502, 521, 977

This order includes the following:

A. CLASSIFICATION MANUAL CHANGES

B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1894

MAY 4, 2010

PROJECT C-7172

Project Leader:	Terrence M. Mackey
Examiner:	Steve Kalafut
Editors:	David Delzingaro, Almeta Quinn
Publications Specialist:	Yvonne Smith

454 ..With electrolyte or reactant supply or circulation
455 ...With means for moving reactant
456 ...With fluid distribution means
457 ....Flow field means (e.g., flow field plate, bipolar separator, etc.)
458 ....Manifold
459 .....External manifold
460 .....With sealing means
461 .....Manifold material
462 ....Having means for storing reactant (e.g., tank, etc.)
463 ..Comprising framed electrodes or frame-like gaskets
464 ..With molten electrolyte
465 ..With solid electrolyte
466 ...Tubular or cylindrical configuration
467 ..With means for stacking cells together
468 ...Specified material or component between adjacent cells
469 ...With sealing or supporting feature
470 ...With securing means
471 ..Comprising a plurality of stacks (e.g., modular assembly, etc.)
472 .Fuel cell with molten electrolyte
473 ..With means for preventing or reducing electrode dissolution
474 ..With gas diffusion electrode
475 ...With matrix containing electrolyte
476 ..With liquid or solid reactant or reactant in electrolyte
477 ..Specified electrolyte material
478 ...Comprising a carbonate
479 .Fuel cell with solid electrolyte
480 ..With gas diffusion electrode
481 ...Specified supporting layer
482 ..Specified electrode/electrolyte combination
483 ...Membrane electrode assembly (MEA)
484 ..Specified electrode material
485 ...Metal or alloy containing
486 ....Metal-ceramic composite or mixture (e.g., cermet, etc.)
487 ....Noble metal or alloy
488 ...Oxide material
489 ....Complex oxide (e.g., $M_1M_2O_3$, etc.)
490 ..Gaseous or vaporized reactant
491 ..Specified solid electrolyte
492 ...Polymeric material (e.g., proton exchange membrane (PEM), etc.)
493 ....Having sulfonic acid groups
494 .....Fluoropolymer (e.g., Nafion, etc.)
495 ...Oxide
496 ....Zirconium oxide
497 ..Tubular-shaped solid electrolyte
498 .Fuel cell with liquid electrolyte
499 ..Aqueous electrolyte
500 ...Acidic
501 ...Hydroxide
502 .Fuel cell with specified reactant
503 ..Particulate reactant (e.g., suspension, dispersion, etc.)
504 ..Reactant contains a nitrogen compound (e.g., hydrazine, ammonia, etc.)
505 ..Reactant includes carbon, oxygen, or hydrogen
506 ...Reactant is an alcohol
507 .Means for joining components together
508 ..With sealing, spacing, or supporting feature
509 ...Specified material
510 ....With bonded seal
511 ...With clamping means
512 .Means for distributing, storing, or preventing fluid movement
513 ..Having means for supplying reactant or electrolyte
514 ...Including flow field means (e.g., separator plate, etc.)
515 ..Having means for storing reactant (e.g., tank, reservoir, etc.)
516 ..Immobilizing structure or material (e.g., matrix, diaphragm, or membrane, etc.)
517 .Electrical current collector
518 ..Bipolar separator (e.g., bipolar plate, etc.)
519 ..Specified collector material

86 ..Reactive, absorbable or diffusive type
87 ..Gang type
88 ...Having manifold
89 ..Other stopper, cap or plug type
90 **WITH MEASURING, TESTING, OR INDICATING MEANS**
91 .For charge or liquid level
92 ..Having electrical circuitry
93 ...External type
94 **PLURAL CONCENTRIC OR SINGLE COILED ELECTRODE**
95 **HAVING MEANS FOR DRAINING OR REMOVING ELECTROLYTE FROM A CELL OTHER THAN FILLER OPENING**
96 **CELL SUPPORT FOR REMOVABLE CELL**
97 .Having switch or interlock means
98 .Having disparate support structure, e.g., eyeglass temple, etc.
99 .For plural cells
100 .Support or holder per se
101 **FLUID ACTIVE MATERIAL OR TWO-FLUID ELECTROLYTE COMBINATION HAVING AREAS OF NONMIXTURE**
102 .Active material in molten state
103 ..With fused electrolyte, i.e., molten
104 ..With solid-state electrolyte
105 .Active material in solution
106 ..Copper sulfate solution
107 ..Iron containing material
108 ..Nitrogen containing material
109 ..Chromium containing material
110 **DEFERRED ACTION TYPE**
111 .Responsive to light
112 .Responsive to heat
113 .Responsive to movement of electrode on contained electrolyte
114 ..Activated by spin or set back
115 ..Activated by explosive charge
116 ..Frangible separation means
117 ..By orientation of the cell
118 .Responsive to addition of liquid
119 ..Activated by immersion, e.g., sea water type
120 **WITH HEAT EXCHANGE FEATURE**
121 **ADJUNCTS IN COMBINATION WITH OR FOR CONNECTION TO AN EXTERNAL ELECTRICAL ELECTRIC CURRENT CARRYING MEMBER OF A BATTERY OTHER THAN TERMINAL PROTECTORS, E.G., TERMINAL ADAPTER, CAPS, LIFTERS, ETC. AND CONNECTORS PER SE**
122 **CURRENT PRODUCING CELL, ELEMENTS, SUBCOMBINATIONS AND COMPOSITIONS FOR USE THEREWITH AND ADJUNCTS**
123 .Having means to interchangeably connect plural individual cells or means to conectively support cell to current seeking apparatus
124 .Printed cell type
125 .Standard cell or counter emf type
126 .Cell with protective layer on electrolyte
127 .Tape or flexible-type cell including tape fuel cells or subcombination thereof
128 .Electrode or plural tablets, pellets or discs
129 .Separator, retainer or spacer insulating structure (other than a single porous flat sheet, or either an impregnated or coated sheet not having distinct layers)
130 ..Insulator structure is only spacer of the rod, button, strip, or frame type
131 ..Having electrode enclosing feature
132 ...Separating material in bulk form about electrode
133 ...Cylindrical unit cell type, flat unit cell type or porous cup type
134 ....Paste or gel
135 .....With layer of material or spacing means
136 ...Envelope type
137 ....Coating on electrode
138 ....Having support frame or cover
139 ....Having edge bond or seal
140 ...Tubular type
141 ....Having plural layers of diverse material
142 ..Having plural distinct components

143 ...Ribs or projections attached to sheet material
144 ...Plural layers
145 ....Having defined porosity either functional or by size (i.e., semipermeable, permselective, ionpermeable, microporous, etc.)
146 ..Having electrode spacing projections
147 ...Projections are deformed portions, of a sheet material, i.e., corrugations, etc.
148 .Plural housing having spacing means or channels for air circulation and short prevention
149 .Plural cells
150 ..With integral switch means
151 ..Casing having interlocking structure
152 ..Individual cells connected in repeating contiguous layered units
153 ...Having unit enclosing housing
154 ....Having sectional component
155 .....Of tray, cup or dish shape in nested or telescopic relationship
156 ..Complete cells
157 ...In end-to-end contact, e.g., stacked button-type cell, etc.
158 ...Having intercell connector
159 ....And common external casing, tray or clamp means
160 ..Having intercell connector
161 .Intracell assembly having cell electrode connector
162 .Flat-type unit cell and specific unit cell components
163 .Cell enclosure structure, e.g., housing, casing, container, cover, etc.
164 ..Cylindrical unit cell type, e.g., cup container electrode, tubular electrode, casing, etc.
165 ...Having centrally located anode, i.e., "inside-out" type cell
166 ...Reactive metallic can, cup or tubular electrode
167 ....Having outer nonreactive housing, casing, or jacket
168 .....Having metallic or conductive outer casing
169 .....Outer casing electrically connected to reactive electrode
170 .....Electrical contact terminal plate or cap clamped to or embedded in a portion of the housing
171 ....Having seal
172 .....Mechanical clamping pressure seal
173 .....And sealing mass or compound
174 ...Having seal material
175 ..Cover only
176 ..Container only
177 ..Housing or casing with plural covers
178 ..Having terminal
179 ...On or through a side of housing
180 ...Sealing sleeve embedded or molded in cover
181 ...And terminal seal
182 ....Means to stop rotational movement between cover and terminal
183 ....Having threaded compression means
184 ....Sealing mass or compound
185 ..Having seal feature
186 ..Having cell assembly support feature
187 ..Having handle or lifting device
188 .Include electrolyte chemically specified and method
189 ..Precursor composition
300 ..The electrolyte is gelled
301 ...Carbohydrate or derivative containing (e.g., starch, cellulose, etc.)
302 ...Silicon containing
303 ...Organic polymer containing
304 ..The electrolyte is solid
305 ...Temperature range of electrolyte operation or electrolyte processing is specified
306 ...Organic component containing
307 ....Chemically specified organic solute
308 ....Carbohydrate or derivative
309 ....Two or more polymers (i.e., polymer mixture)

310 ....Hetero ring containing polymer
311 .....Oxygen is a ring member of the hetero ring
312 ......The hetero ring is three membered
313 ....Silicon containing polymer
314 ....Sulfur, nitrogen, or phosphorus containing polymer
315 .....Nitrogen and phosphorus in the polymer
316 ....Halogen containing polymer
317 ....Oxygen containing polymer
318 ...Silver containing component
319 ...Aluminum containing component (e.g., LiAlCl4, etc.)
320 ....The component is alumina (i.e., aluminum oxide)
321 ...Alkali metal containing component
322 ....The alkali metal is lithium
323 .....Lithium and halogen containing compound
324 ..Chemically specified organic solvent containing
325 ...And chemically specified inorganic solvent
326 ...Plural organic solvents (i.e., solvent mixture)
327 ....One of the organic solvents contains a hetero ring
328 .....Nitrogen is ring member of the hetero ring
329 .....Oxygen is ring member of the hetero ring
330 ......The hetero ring is a cyclic carbonate
331 ....Plural cyclic carbonate solvents
332 ....And acyclic carbonate or acyclic carboxylic acid ester solvent
333 ....And acyclic ether solvent
334 ......And acyclic oxygen or nitrogen containing solvent compound
335 ....The acyclic oxygen containing solvent compound is an acyclic ether
336 ...Hetero ring in the organic solvent
337 ....Oxygen is the only ring hetero atom in the hetero ring (e.g., dioxolane, gamma butyrolactone, etc.)
338 .....The hetero ring is a cyclic carbonate (e.g., ethylene carbonate, propylene carbonate, etc.)
339 ...Nitrogen containing organic solvent compound (e.g., acetonitrile, etc.)
340 ...Sulfur containing organic solvent compound
341 ...Oxygen containing organic solvent compound
342 ....Acyclic carbonate solvent
343 ....Acyclic carboxylic acid ester solvent
344 ..Chemically specified inorganic solvent other than water
345 ...Sulfur or phosphorus in the inorganic solvent
346 ....Sulfur dioxide containing inorganic solvent
347 ..Organic solute component in aqueous electrolyte
199 ..Halogen containing
200 ...Hydrogen containing
201 ....Ammonium
202 ..Chromium containing
203 ..With acid containing N or P constituent
204 ..Sulphuric acid
205 ...Sulphate containing
206 ..Alkaline
207 ...With salt or acid component
208 .Electrode support for suspending or holding an electrode in a battery
209 .Electrode
210 ..Bipolar type
211 ..Having connector tab
212 ..Having active material with organic component
213 ...Organic component is active material
214 ...Organic component is an antioxidant
215 ...Organic component is an expander or addition agent for improving electrode capacity or plating characteristics
216 ....Dendrite or "tree" forming inhibitor
217 ...Organic component is a binder
218.1 ..Chemically specified inorganic electrochemically active material containing

218.2 ...Hydrogen storage material is active material
219 ...Silver component is active material
220 ...Copper component is active material
221 ...Iron component is active material
222 ...Cadmium component is active material
223 ...Nickel component is active material
224 ...Manganese component is active material
225 ...Lead component is active material
226 ....Alloy
227 ....Metal sulphate or carbonate
228 ....Lead oxide
229 ...Zinc component
230 ....With mercury
231 ....Zinc oxide
231.1 ...Alkalated transition metal chalcogenide component is active material
231.2 ....Alkalated vanadium (V) chalcogenide
231.3 ....Alkalated cobalt (Co) chalcogenide
231.4 ...Alkalated carbon, graphite, or carbonaceous component is active material
231.5 ...Vanadium (V), chromium (Cr), niobium (Nb), molybdenum (Mo), titanium (Ti), or tungsten (W) component is active material
231.6 ...Alkaline earth metal or magnesium (Mg) component is active material
231.7 ...Halogenated carbon, graphite, or carbonaceous component is active material
231.8 ...Carbon, graphite, or carbonaceous component is active material
231.9 ...Alkali metal component is active material
231.95 ....The alkali metal is lithium
232 ..Having inorganic binder or conductive filler
233 ..Grid or holder for active material
234 ...Grid or holder has nonconducting component portion thereof
235 ...Having particulate or fibrous porous mass including a sintered mass
236 ....Having coating in the pores
237 ....Having support or reinforcing member
238 ...Having longitudinal electrically conducting tubes or cores
239 ...Having conductive receptacle or mechanical locking means for the active material
240 ....Locking means being bendable tabs
241 ...Open mesh or perforated plate
242 ....Expanded metal
243 ....Having members in a face plane of the grid being offset from members in the plane of the opposite face
244 .....Distinct elements or members intermediate the face members
245 ...Materials chemically specified
246 ..With insulating separator, spacer or retainer means
247 .Separator, retainer, spacer or materials for use therewith
248 ..Having additive for effecting the charge capacity, life, etc., of a cell
249 ..Organic material
250 ...And wetting agent or surface acting agent
251 ...And inorganic material
252 ....Silicon containing
253 ...Phenolic or thermosetting resin
254 ...Rubber or thermoplastic resin
255 ...Natural or treated plant materials

CROSS-REFERENCE ART COLLECTIONS

900 **FUEL CELL INCLUDING MEANS FOR POWER CONDITIONING (E.G., CONVERSION TO AC, ETC.)**
901 **FUEL CELL INCLUDING MEANS FOR UTILIZATION OF HEAT FOR UNRELATED APPLICATION (E.G., HEATING A BUILDING, ETC.)**

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR**1 **CURRENT PRODUCING CELL, ELEMENTS, SUBCOMBINATIONS AND COMPOSITIONS FOR USE THEREWITH AND ADJUNCTS (429/122)**
FOR**2 .Include electrolyte chemically specified and method (429/188)
FOR 100 ..Gelled (429/190)
FOR 101 ..Solid (429/191)
FOR 102 ...Organic (429/192)
FOR 103 ...Metal oxide component (429/193)
FOR 104 ..Nonaqueous solvent (429/194)
FOR 105 ...With water (429/195)
FOR 106 ...Inorganic solvent (429/196)
FOR 107 ...Plural nonaqueous system (429/197)
FOR 108 ..Having organic solute component (429/198)
FOR**3 .Electrode (429/209)
FOR 109 ..Having inorganic active material chemically specified (429/218)
FOR 110 **FUEL CELL, SUBCOMBINATION THEREOF OR METHODS OF OPERATING (429/12)**
FOR 111 .Process of operating (429/13)
FOR 112 ..Circulating or feeding electrolyte (429/14)
FOR 113 ...Active material in electrolyte (429/15)
FOR 114 ..Fused or molten electrolyte (429/16)
FOR 115 ..Generating, regenerating or recycling reactant (429/17)
FOR 116 .Plural cells having means to reduce ionic short circuit (429/18)
FOR 117 .Having means for active material generation or regeneration (429/19)
FOR 118 ..By heating or cooling (429/20)
FOR 119 ..By electrical current (429/21)
FOR 120 .Automatic control means (429/22)
FOR 121 ..Electrical output dependent (429/23)
FOR 122 ..Temperature dependent (429/24)
FOR 123 ..Pressure dependent (429/25)
FOR 124 .Having heat exchange means (429/26)
FOR 125 .Active material electrode-type cell or subcombination thereof (429/27)
FOR 126 ..Envelope cathode-type or subcombination thereof (429/28)
FOR 127 ..And chemically specified electrolyte material (429/29)
FOR 128 .Solid electrolyte (429/30)
FOR 129 ..Tubular (429/31)
FOR 130 ..Plural disc or modules (429/32)
FOR 131 ..Electrolyte composition chemically specified (429/33)
FOR 132 .Housing member, seal, spacer or fluid distributing or directing means (429/34)
FOR 133 ..Having sealing feature (429/35)
FOR 134 ...Having bonded seal, e.g., welded, adhesive, molded in situ, etc. (429/36)
FOR 135 ....Having clamping means (429/37)
FOR 136 ...Having support or spacers with fluid distribution means (429/38)
FOR 137 ....And fluid directing means (429/39)
FOR 138 .Catalytic electrode structure or composition (429/40)
FOR 139 ..Having electrolyte matrix or barrier layer (429/41)
FOR 140 ..Having organic constituent as part of the electrode (429/42)
FOR 141 ...Organic catalyst (429/43)
FOR 142 ..Having an inorganic matrix, substrate or support (429/44)
FOR 143 ...Of sintered particles (429/45)
FOR 144 .Chemically specified electrolyte (429/46)

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
148/516	2	429/12	227
165/48.1	1	429/26	402
204/157.5	1	429/19	246
204/245	1	429/17	470
204/293	1	429/30	334
204/410	1	429/30	334
205/637	1	429/13	755
244/30	1	429/26	402
252/62.2	2	429/33	348
29/623.1	1	429/33	348
361/311	1	429/34	745
429/101	1	429/20	140
429/102	1	429/15	98
429/103	1	429/16	94
429/105	1	429/21	59
	1	429/44	209
	2	429/15	98
429/107	1	429/19	246
	1	429/34	745
429/109	2	429/15	98
429/110	1	429/27	352
429/118	1	429/12	227
429/120	2	429/26	402
429/123	1	429/20	140
429/199	2	429/15	98
429/200	2	429/15	98
429/206	1	429/27	352
429/207	1	429/46	55
429/210	1	429/27	352
429/213	1	429/42	198
429/218.1	1	429/13	755
429/218.2	2	429/27	352
429/219	1	429/27	352
429/220	1	429/30	334
429/229	1	429/15	98
429/231.9	1	429/24	104
429/245	1	429/17	470
429/303	1	429/33	348
429/304	1	429/33	348
429/306	1	429/33	348
429/309	1	429/33	348
429/317	1	429/33	348
429/318	1	429/30	334
429/330	1	429/33	348

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New Classification	Number of ORs	Source Classification	Number of ORs
429/347	2	429/15	98
429/400	1	429/15	98
	1	429/26	402
	1	429/36	76
	2	429/12	227
	3	429/19	246
	3	429/20	140
	5	429/21	59
	5	429/27	352
429/401	1	429/13	755
	1	429/16	94
	1	429/44	209
	2	429/19	246
	3	429/12	227
	3	429/17	470
	10	429/43	24
429/402	1	429/21	59
	1	429/22	169
	1	429/32	162
	1	429/39	160
	1	429/40	286
	1	429/43	24
	1	429/44	209
	1	429/46	55
	2	429/15	98
	2	429/16	94
	3	429/12	227
	3	429/19	246
	3	429/42	198
	7	429/13	755
	7	429/17	470
	17	429/29	85
	36	429/27	352
429/403	1	429/14	68
	1	429/19	246
	1	429/28	36
	1	429/34	745
	1	429/40	286
	2	429/13	755
	2	429/16	94
	2	429/17	470
	2	429/18	32
	2	429/22	169
429/403	2	429/26	402
	3	429/21	59

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	7	429/29	85
	32	429/27	352
429/404	1	429/12	227
	1	429/14	68
	1	429/18	32
	1	429/20	140
	1	429/24	104
	1	429/30	334
	1	429/40	286
	1	429/46	55
	2	429/28	36
	2	429/29	85
	3	429/17	470
	3	429/19	246
	3	429/21	59
	5	429/13	755
	5	429/34	745
	6	429/22	169
	11	429/15	98
	36	429/27	352
429/405	1	429/12	227
	1	429/19	246
	1	429/38	231
	1	429/39	160
	1	429/41	124
	2	429/16	94
	2	429/34	745
	2	429/40	286
	2	429/44	209
	3	429/26	402
	3	429/42	198
	3	429/46	55
	4	429/15	98
	4	429/17	470
	5	429/14	68
	6	429/28	36
	10	429/29	85
	15	429/13	755
	63	429/27	352
429/406	1	429/14	68
	1	429/18	32
	1	429/21	59

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429/406	1	429/23	120
	1	429/30	334
	1	429/36	76
	1	429/37	54
	1	429/39	160
	1	429/46	55
	2	429/22	169
	2	429/25	111
	2	429/32	162
	2	429/33	348
	2	429/34	745
	2	429/35	194
	3	429/38	231
	3	429/44	209
	4	429/12	227
	4	429/26	402
	5	429/40	286
	6	429/13	755
	7	429/15	98
	7	429/17	470
	14	429/28	36
	35	429/29	85
	76	429/27	352
429/407	1	429/34	745
	1	429/39	160
	2	429/17	470
	2	429/19	246
	2	429/26	402
	2	429/35	194
	3	429/13	755
	54	429/27	352
429/408	1	429/18	32
	1	429/33	348
	1	429/37	54
	2	429/12	227
	2	429/17	470
	2	429/38	231
	3	429/19	246
	3	429/30	334
	3	429/34	745
	5	429/14	68
	6	429/16	94
	17	429/13	755

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429/409	1	429/19	246
	1	429/21	59
	1	429/22	169
	1	429/24	104
	1	429/25	111
	1	429/27	352
	1	429/30	334
	1	429/41	124
	1	429/42	198
	2	429/12	227
	2	429/40	286
	3	429/18	32
	3	429/44	209
	4	429/16	94
	4	429/34	745
	9	429/17	470
	10	429/15	98
	11	429/13	755
	21	429/14	68
429/410	1	429/28	36
	1	429/29	85
	1	429/31	105
	1	429/33	348
	1	429/42	198
	1	429/46	55
	2	429/15	98
	2	429/23	120
	2	429/32	162
	3	429/14	68
	3	429/30	334
	3	429/38	231
	4	429/24	104
	6	429/12	227
	6	429/16	94
	6	429/20	140
	7	429/22	169
	8	429/26	402
	11	429/25	111
	18	429/19	246
	22	429/13	755
	28	429/34	745
	29	429/17	470
429/411	1	429/23	120
	1	429/32	162
429/411	1	429/38	231

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

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	1	429/40	286
	2	429/33	348
	2	429/44	209
	2	429/46	55
	3	429/16	94
	4	429/20	140
	4	429/25	111
	5	429/12	227
	5	429/26	402
	5	429/34	745
	6	429/22	169
	8	429/13	755
	13	429/19	246
	53	429/17	470
429/412	1	429/23	120
	1	429/30	334
	1	429/32	162
	1	429/34	745
	1	429/35	194
	1	429/41	124
	1	429/42	198
	2	429/21	59
	2	429/25	111
	2	429/44	209
	3	429/24	104
	4	429/26	402
	5	429/12	227
	5	429/40	286
	6	429/22	169
	10	429/20	140
	13	429/13	755
	19	429/19	246
	40	429/17	470
429/413	1	429/15	98
	1	429/35	194
	1	429/37	54
	2	429/21	59
	2	429/40	286
	3	429/32	162
	3	429/33	348
	3	429/39	160
	4	429/38	231
	5	429/12	227
429/413	5	429/30	334
	7	429/20	140

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	8	429/23	120
	14	429/22	169
	14	429/25	111
	15	429/17	470
	16	429/24	104
	19	429/34	745
	37	429/26	402
	41	429/13	755
429/414	1	429/23	120
	1	429/27	352
	1	429/28	36
	1	429/30	334
	1	429/37	54
	1	429/38	231
	1	429/42	198
	1	429/44	209
	1	429/46	55
	2	429/33	348
	2	429/38	231
	2	429/40	286
	3	429/12	227
	3	429/19	246
	3	429/22	169
	4	429/24	104
	4	429/25	111
	4	429/39	160
	12	429/34	745
	13	429/26	402
	17	429/17	470
	37	429/13	755
429/415	1	429/31	105
	2	429/12	227
	2	429/21	59
	2	429/23	120
	2	429/32	162
	4	429/15	98

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/415	4	429/16	94
	4	429/38	231
	5	429/14	68
	5	429/24	104
	5	429/39	160
	6	429/22	169
	6	429/26	402
	8	429/25	111
	9	429/20	140
	14	429/19	246
	22	429/13	755
	22	429/34	745
	58	429/17	470
429/416	1	429/21	59
	1	429/24	104
	1	429/25	111
	1	429/38	231
	1	429/40	286
	1	429/44	209
	2	429/12	227
	2	429/26	402
	2	429/30	334
	3	429/22	169
	4	429/23	120
	6	429/34	745
	7	429/20	140
	9	429/13	755
	14	429/17	470
	19	429/19	246
429/417	1	429/12	227
	1	429/13	755
	1	429/22	169
	1	429/25	111
	1	429/29	85
	1	429/40	286
	2	429/15	98
	4	429/19	246
	5	429/17	470
	5	429/34	745
429/418	1	429/16	94
	1	429/27	352
	1	429/30	334
	1	429/40	286

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/418	2	429/21	59
	2	429/22	169
	2	429/26	402
	2	429/34	745
	4	429/19	246
	4	429/20	140
	5	429/17	470
	10	429/13	755
429/419	1	429/15	98
	1	429/20	140
	1	429/26	402
	3	429/16	94
	10	429/17	470
429/420	1	429/17	470
	1	429/23	120
	1	429/25	111
	1	429/26	402
	1	429/31	105
	2	429/16	94
	2	429/40	286
	4	429/13	755
	4	429/19	246
	4	429/20	140
	16	429/17	470
429/421	1	429/23	120
	1	429/24	104
	1	429/27	352
	1	429/38	231
	1	429/46	55
	2	429/12	227
	2	429/21	59
	2	429/25	111
	2	429/31	105
	2	429/33	348
	2	429/44	209
	3	429/13	755
	3	429/40	286
	7	429/20	140
	9	429/34	745
	14	429/17	470
	18	429/19	246

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/422	1	429/23	120
	1	429/25	111
	1	429/26	402
	1	429/27	352
	1	429/30	334
	1	429/31	105
	1	429/46	55
	2	429/12	227
	2	429/13	755
	2	429/15	98
	2	429/38	231
	3	429/20	140
	5	429/34	745
	6	429/19	246
	9	429/17	470
	14	429/21	59
429/423	1	429/14	68
	1	429/15	98
	1	429/39	160
	1	429/42	198
	1	429/44	209
	1	429/46	55
	2	429/33	348
	2	429/38	231
	3	429/25	111
	3	429/40	286
	4	429/30	334
	5	429/32	162
	6	429/16	94
	6	429/31	105
	7	429/12	227
	7	429/24	104
	8	429/23	120
	9	429/34	745
	10	429/22	169
	17	429/13	755
	22	429/26	402
	24	429/20	140
	28	429/19	246
	40	429/17	470

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/424	1	429/16	94
	1	429/25	111
	1	429/34	745
	2	429/23	120
	2	429/24	104
	3	429/12	227
	3	429/26	402
	6	429/20	140
	7	429/17	470
	7	429/34	745
	8	429/13	755
	9	429/19	246
429/425	1	429/15	98
	1	429/23	120
	1	429/24	104
	1	429/25	111
	1	429/27	352
	1	429/32	162
	1	429/35	194
	1	429/39	160
	1	429/41	124
	2	429/30	334
	2	429/31	105
	2	429/37	54
	2	429/44	209
	3	429/21	59
	3	429/40	286
	4	429/22	169
	4	429/38	231
	5	429/12	227
	6	429/26	402
	6	429/34	745
	8	429/16	94
	9	429/13	755
	14	429/20	140
	18	429/19	246
	30	429/17	470
429/426	1	429/12	227
	1	429/19	246
	2	429/16	94
	2	429/34	745
	5	429/17	470

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/427	1	429/13	755
	1	429/34	745
	1	429/35	194
	1	429/38	231
	2	429/22	169
429/428	1	429/13	755
	1	429/21	59
	1	429/22	169
	1	429/22	169
	1	429/23	120
	1	429/34	745
	1	429/34	745
	2	429/33	348
	3	429/12	227
	5	429/13	755
429/429	1	429/12	227
	1	429/16	94
	1	429/17	470
	1	429/18	32
	1	429/19	246
	1	429/30	334
	1	429/38	231
	1	429/41	124
	2	429/14	68
	4	429/20	140
	5	429/23	120
	5	429/25	111
	5	429/34	745
	6	429/24	104
	7	429/12	227
	14	429/22	169
	16	429/26	402
	79	429/13	755
429/430	1	429/16	94
	1	429/18	32
	1	429/25	111
	1	429/32	162
	1	429/38	231
	2	429/19	246
	2	429/26	402
	2	429/30	334
	4	429/12	227
	4	429/34	745
429/430	6	429/22	169

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	6	429/24	104
	27	429/23	120
	29	429/13	755
429/431	1	429/18	32
	1	429/39	160
	1	429/40	286
	1	429/41	124
	2	429/25	111
	2	429/38	231
	2	429/44	209
	3	429/30	334
	3	429/33	348
	3	429/34	745
	4	429/24	104
	5	429/12	227
	5	429/17	470
	11	429/22	169
	20	429/23	120
	36	429/13	755
429/432	1	429/14	68
	1	429/16	94
	1	429/20	140
	1	429/26	402
	1	429/31	105
	1	429/33	348
	1	429/40	286
	1	429/41	124
	1	429/44	209
	2	429/24	104
	2	429/25	111
	2	429/35	194
	2	429/38	231
	2	429/42	198
	3	429/12	227
	4	429/34	745
	9	429/17	470
	11	429/22	169
	27	429/23	120
	44	429/13	755
429/433	1	429/16	94
	1	429/24	104
	1	429/38	231
	1	429/38	231
429/433	2	429/30	334
	2	429/35	194

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	2	429/39	160
	3	429/26	402
	9	429/13	755
	9	429/34	745
429/434	1	429/13	755
	1	429/16	94
	1	429/21	59
	1	429/22	169
	1	429/24	104
	1	429/25	111
	1	429/33	348
	2	429/14	68
	2	429/19	246
	2	429/31	105
	2	429/37	54
	2	429/40	286
	3	429/24	104
	3	429/36	76
	3	429/44	209
	5	429/12	227
	6	429/17	470
	9	429/32	162
	12	429/30	334
	14	429/20	140
	15	429/35	194
	15	429/39	160
	19	429/38	231
	21	429/13	755
	46	429/34	745
	102	429/26	402
429/435	1	429/12	227
	1	429/23	120
	1	429/28	36
	1	429/37	54
	2	429/17	470
	3	429/39	160
	4	429/32	162
	4	429/38	231
	5	429/13	755
	6	429/34	745
	8	429/24	104
	9	429/35	194
429/435	24	429/26	402
429/436	1	429/34	745
	2	429/22	169

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	2	429/25	111
	5	429/26	402
	6	429/24	104
	12	429/13	755
429/437	1	429/17	470
	1	429/22	169
	1	429/24	104
	1	429/42	198
	2	429/19	246
	2	429/30	334
	2	429/36	76
	2	429/39	160
	2	429/40	286
	3	429/44	209
	4	429/32	162
	4	429/35	194
	5	429/25	111
	8	429/12	227
	11	429/34	745
	14	429/38	231
	16	429/13	755
	40	429/26	402
429/438	1	429/12	227
	1	429/24	104
	1	429/33	348
	2	429/22	169
	3	429/13	755
	10	429/26	402
429/439	1	429/12	227
	1	429/16	94
	1	429/19	246
	1	429/24	104
	1	429/30	334
	1	429/32	162
	1	429/37	54
	1	429/38	231
	2	429/13	755
	2	429/34	745
	3	429/39	160
	30	429/26	402

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/440	1	429/19	246
	1	429/20	140
	1	429/22	169
	1	429/24	104
	1	429/32	162
	1	429/34	745
	1	429/40	286
	2	429/13	755
	7	429/17	470
	7	429/26	402
429/441	1	429/12	227
	1	429/24	104
	1	429/25	111
	1	429/31	105
	1	429/35	194
	1	429/38	231
	2	429/17	470
	2	429/34	745
	4	429/13	755
	4	429/26	402
429/442	1	429/14	68
	1	429/19	246
	1	429/26	402
	1	429/29	85
	1	429/36	76
	1	429/38	231
	2	429/20	140
	2	429/32	162
	2	429/33	348
	2	429/35	194
	2	429/39	160
	2	429/40	286
	2	429/44	209
	3	429/12	227
	3	429/17	470
	3	429/25	111
	4	429/22	169
	4	429/30	334
	5	429/34	745
	12	429/24	104
	14	429/16	94
	27	429/13	755

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/443	1	429/17	470
	1	429/18	32
	1	429/20	140
	1	429/27	352
	1	429/39	160
	1	429/43	24
	2	429/30	334
	2	429/32	162
	2	429/38	231
	3	429/19	246
	3	429/21	59
	4	429/12	227
	4	429/22	169
	4	429/25	111
	9	429/13	755
	12	429/34	745
429/444	1	429/19	246
	1	429/24	104
	1	429/27	352
	1	429/30	334
	1	429/32	162
	1	429/33	348
	1	429/40	286
	1	429/42	198
	2	429/15	98
	2	429/26	402
	2	429/35	194
	2	429/39	160
	4	429/12	227
	4	429/17	470
	6	429/38	231
	13	429/22	169
	14	429/25	111
	21	429/34	745
	25	429/13	755
429/445	1	429/12	227
	1	429/15	98
	1	429/22	169
	1	429/26	402
	1	429/40	286
	5	429/13	755

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/446	1	429/17	470
	1	429/24	104
	1	429/30	334
	1	429/33	348
	1	429/42	198
	2	429/22	169
	2	429/39	160
	5	429/38	231
	7	429/13	755
	7	429/25	111
	7	429/34	745
429/447	1	429/12	227
	1	429/27	352
	2	429/13	755
	2	429/15	98
	2	429/22	169
	2	429/25	111
	6	429/34	745
429/448	1	429/14	68
	1	429/22	169
	2	429/12	227
	2	429/38	231
	3	429/13	755
	4	429/34	745
429/449	1	429/17	470
	1	429/23	120
	1	429/30	334
	2	429/22	169
	3	429/13	755
429/450	1	429/15	98
	1	429/30	334
	1	429/32	162
	1	429/35	194
	2	429/12	227
	2	429/17	470
	2	429/19	246
	2	429/26	402
	2	429/41	124
	3	429/22	169
	3	429/39	160
	6	429/38	231
	9	429/13	755
	14	429/34	745
429/451	1	429/15	98

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	1	429/16	94
	1	429/22	169
	1	429/25	111
	1	429/35	194
	1	429/38	231
	1	429/43	24
	9	429/14	68
	10	429/34	745
429/452	1	429/30	334
	1	429/31	105
	1	429/38	231
	2	429/13	755
	2	429/26	402
	2	429/40	286
	3	429/34	745
	3	429/44	209
	5	429/12	227
429/453	1	429/14	68
	1	429/30	334
	1	429/36	76
	2	429/12	227
	2	429/13	755
	2	429/27	352
	2	429/34	745
	3	429/35	194
	12	429/18	32
429/454	1	429/16	94
	1	429/17	470
	1	429/18	32
	1	429/29	85
	1	429/33	348
	1	429/36	76
	1	429/37	54
	1	429/40	286
	1	429/41	124
	1	429/44	209
	1	429/45	34
	2	429/13	755
	2	429/26	402
	2	429/35	194
	4	429/38	231
	6	429/12	227
	6	429/32	162
429/454	7	429/39	160
	8	429/30	334

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	8	429/31	105
	38	429/34	745
429/455	1	429/19	246
	1	429/28	36
	1	429/38	231
	2	429/13	755
	2	429/32	162
	5	429/34	745
429/456	1	429/13	755
	1	429/20	140
	1	429/33	348
	1	429/42	198
	2	429/26	402
	2	429/37	54
	3	429/36	76
	4	429/12	227
	7	429/35	194
	8	429/39	160
	9	429/30	334
	12	429/31	105
	12	429/34	745
	15	429/38	231
	24	429/32	162
429/457	1	429/18	32
	1	429/19	246
	1	429/31	105
	1	429/33	348
	2	429/41	124
	2	429/44	209
	3	429/13	755
	3	429/37	54

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/457	5	429/36	76
	6	429/30	334
	6	429/35	194
	11	429/32	162
	16	429/34	745
	16	429/38	231
	18	429/39	160
429/458	1	429/12	227
	1	429/13	755
	1	429/17	470
	1	429/19	246
	1	429/23	120
	1	429/31	105
	1	429/33	348
	1	429/40	286
	2	429/36	76
	2	429/37	54
	2	429/44	209
	4	429/35	194
	4	429/39	160
	5	429/30	334
	11	429/32	162
	16	429/34	745
	16	429/38	231
429/459	1	429/26	402
	1	429/30	334
	1	429/31	105
	1	429/37	54
	2	429/32	162
	2	429/38	231
	2	429/39	160
	3	429/35	194
	5	429/34	745
429/460	1	429/14	68
	1	429/19	246
	1	429/23	120
	1	429/26	402
	1	429/38	231
	2	429/12	227
	2	429/13	755
	2	429/32	162
	2	429/34	745
	2	429/41	124

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/460	3	429/30	334
	3	429/33	348
	3	429/39	160
	4	429/38	231
	6	429/37	54
	7	429/36	76
	22	429/35	194
429/461	1	429/13	755
	1	429/19	246
	1	429/32	162
	1	429/39	160
	1	429/42	198
	2	429/35	194
	4	429/34	745
429/462	1	429/12	227
	1	429/27	352
	1	429/41	124
	2	429/22	169
429/463	1	429/14	68
	1	429/27	352
	1	429/28	36
	1	429/31	105
	1	429/32	162
	1	429/36	76
	1	429/38	231
	1	429/39	160
	3	429/35	194
	6	429/34	745
429/464	1	429/29	85
	1	429/35	194
	1	429/40	286
	1	429/46	55
	2	429/34	745
	3	429/16	94
429/465	1	429/12	227
	1	429/25	111
	1	429/26	402
	1	429/40	286
	1	429/42	198
	2	429/38	231
	2	429/39	160
	2	429/41	124
	3	429/13	755

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/465	3	429/37	54
	3	429/44	209
	4	429/35	194
	4	429/36	76
	8	429/12	227
	9	429/31	105
	12	429/40	286
	16	429/34	745
	18	429/33	348
	27	429/30	334
	29	429/32	162
429/466	1	429/33	348
	1	429/34	745
	1	429/41	124
	2	429/32	162
	2	429/44	209
	4	429/30	334
	12	429/31	105
429/467	1	429/41	124
	2	429/30	334
	4	429/34	745
429/468	1	429/19	246
	1	429/32	162
	1	429/35	194
	1	429/38	231
	1	429/41	124
	2	429/44	209
	3	429/28	36
	3	429/31	105
	3	429/40	286
	4	429/12	227
	4	429/26	402
	4	429/30	334
	11	429/34	745
429/469	1	429/13	755
	1	429/18	32
	1	429/39	160
	2	429/12	227
	3	429/38	231
	4	429/30	334
	4	429/37	54
	6	429/35	194
	6	429/36	76

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/469	7	429/34	745
429/470	1	429/13	755
	1	429/15	98
	1	429/26	402
	1	429/32	162
	1	429/35	194
	1	429/36	76
	1	429/41	124
	3	429/12	227
	9	429/34	745
	10	429/37	54
429/471	1	429/12	227
	1	429/30	334
	1	429/32	162
	4	429/34	745
429/472	1	429/34	745
	1	429/46	55
	4	429/16	94
429/473	2	429/16	94
429/474	1	429/29	85
	1	429/34	745
	1	429/46	55
	2	429/33	348
	2	429/45	34
	3	429/40	286
	6	429/41	124
429/475	1	429/33	348
	1	429/38	231
	1	429/42	198
	2	429/12	227
	2	429/16	94
	2	429/41	124
	4	429/46	55
429/476	1	429/13	755
	1	429/34	745
429/477	1	429/16	94
	1	429/41	124
	2	429/42	198
	3	429/46	55
429/478	1	429/13	755
	1	429/21	59
	1	429/38	231
	2	429/12	227

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/478	2	429/16	94
	2	429/35	194
	2	429/39	160
	3	429/33	348
	3	429/44	209
	6	429/34	745
	7	429/46	55
	14	429/41	124
	15	429/40	286
429/479	1	429/31	105
	1	429/33	348
	1	429/34	745
	1	429/35	194
	1	429/39	160
	1	429/42	198
	2	429/12	227
	2	429/19	246
	2	429/26	402
	2	429/32	162
	3	429/13	755
	4	429/40	286
	7	429/34	745
	17	429/30	334
429/480	1	429/12	227
	1	429/13	755
	1	429/36	76
	1	429/38	231
	1	429/43	24
	2	429/31	105
	3	429/39	160
	4	429/35	194
	7	429/40	286
	10	429/41	124
	11	429/34	745
	11	429/42	198
	12	429/44	209
	16	429/30	334
	16	429/33	348
429/481	1	429/12	227
	1	429/13	755
	1	429/20	140
	1	429/36	76
	1	429/39	160

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/481	2	429/43	24
	3	429/31	105
	3	429/32	162
	3	429/38	231
	3	429/41	124
	3	429/44	209
	5	429/35	194
	7	429/34	745
	9	429/33	348
	11	429/40	286
	11	429/42	198
	17	429/30	334
429/482	1	429/17	470
	1	429/20	140
	1	429/22	169
	1	429/29	85
	1	429/31	105
	1	429/34	745
	1	429/39	160
	1	429/42	198
	1	429/45	34
	1	429/46	55
	2	429/40	286
	2	429/44	209
	3	429/41	124
	9	429/30	334
	16	429/33	348
429/483	1	429/19	246
	1	429/23	120
	1	429/27	352
	1	429/45	34
	2	429/12	227
	2	429/17	470
	2	429/22	169
	2	429/26	402
	3	429/13	755
	3	429/36	76
	3	429/39	160
	4	429/37	54
	5	429/41	124
	6	429/38	231
	7	429/33	348
	8	429/34	745

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/483	8	429/35	194
	12	429/42	198
	12	429/44	209
	17	429/30	334
	19	429/40	286
429/484	1	429/12	227
	1	429/13	755
	1	429/30	334
	1	429/32	162
	1	429/33	348
	1	429/41	124
	1	429/45	34
	2	429/27	352
	2	429/40	286
	2	429/42	198
	3	429/33	348
	4	429/31	105
	4	429/44	209
429/485	1	429/40	286
	1	429/42	198
	1	429/44	209
	2	429/32	162
	2	429/41	124
	4	429/30	334
	4	429/33	348
429/486	1	429/35	194
	1	429/41	124
	2	429/40	286
	2	429/44	209
	6	429/31	105
	8	429/33	348
	9	429/30	334
429/487	1	429/21	59
	1	429/40	286
	2	429/30	334
	2	429/34	745
	2	429/44	209
	3	429/41	124
	7	429/33	348
429/488	1	429/13	755
	1	429/30	334
	1	429/36	76
	1	429/41	124

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/488	2	429/27	352
	2	429/33	348
	3	429/30	334
	4	429/40	286
429/489	1	429/12	227
	1	429/13	755
	1	429/17	470
	1	429/31	105
	1	429/32	162
	1	429/38	231
	1	429/41	124
	1	429/45	34
	2	429/44	209
	3	429/27	352
	6	429/30	334
	8	429/33	348
	8	429/40	286
429/49	1	429/12	227
	1	429/13	755
	1	429/15	98
429/490	1	429/28	36
	1	429/32	162
	1	429/34	745
	1	429/40	286
	5	429/33	348
	6	429/42	198
429/491	1	429/29	85
	1	429/34	745
	1	429/41	124
	1	429/42	198
	1	429/46	55
	3	429/33	348
	4	429/30	334
	6	429/33	348
429/492	1	429/17	470
	1	429/19	246
	1	429/21	59
	1	429/29	85
	1	429/32	162
	1	429/41	124
	2	429/13	755
	2	429/35	194
	3	429/42	198

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/492	4	429/12	227
	4	429/36	76
	4	429/44	209
	5	429/31	105
	5	429/38	231
	7	429/39	160
	7	429/40	286
	16	429/30	334
	18	429/34	745
	43	429/33	348
429/493	1	429/27	352
	1	429/29	85
	1	429/30	334
	1	429/34	745
	2	429/40	286
	2	429/42	198
	7	429/30	334
	35	429/33	348
429/494	1	429/23	120
	1	429/30	334
	1	429/31	105
	1	429/33	348
	1	429/43	24
	2	429/12	227
	2	429/13	755
	2	429/15	98
	2	429/46	55
	3	429/34	745
	3	429/36	76
	3	429/40	286
	4	429/42	198
	5	429/41	124
	11	429/30	334
	40	429/33	348
429/495	1	429/27	352
	1	429/30	334
	1	429/32	162
	1	429/40	286
	1	429/46	55
	2	429/26	402
	2	429/38	231
	2	429/39	160
	3	429/35	194

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/495	4	429/13	755
	7	429/34	745
	14	429/33	348
	23	429/30	334
429/496	1	429/12	227
	1	429/34	745
	1	429/40	286
	1	429/44	209
	2	429/13	755
	2	429/32	162
	2	429/45	34
	4	429/30	334
	4	429/31	105
	20	429/33	348
429/497	1	429/17	470
	3	429/31	105
429/498	1	429/29	85
	1	429/38	231
	1	429/39	160
	1	429/43	24
	1	429/45	34
	1	429/46	55
	2	429/15	98
	2	429/21	59
	2	429/35	194
	2	429/36	76
	10	429/40	286
	11	429/13	755
	11	429/44	209
	12	429/34	745
	13	429/41	124
	16	429/42	198
429/499	1	429/29	85
	1	429/30	334
	1	429/38	231
	1	429/39	160
	2	429/27	352
	2	429/28	36
	2	429/35	194
	2	429/41	124
	3	429/21	59
	3	429/33	348
	3	429/45	34

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/499	3	429/46	55
	5	429/40	286
	6	429/34	745
	7	429/13	755
	7	429/42	198
	7	429/44	209
429/500	1	429/12	227
	1	429/17	470
	1	429/19	246
	1	429/22	169
	1	429/30	334
	1	429/33	348
	1	429/36	76
	1	429/38	231
	1	429/42	198
	2	429/15	98
	2	429/27	352
	2	429/41	124
	3	429/21	59
	3	429/40	286
	4	429/34	745
	4	429/35	194
	8	429/44	209
	9	429/46	55
	17	429/13	755
429/501	1	429/12	227
	1	429/14	68
	1	429/25	111
	1	429/27	352
	1	429/36	76
	1	429/41	124
	1	429/41	124
	1	429/42	198
	1	429/43	24
	1	429/44	209
	2	429/15	98
	2	429/34	745
	2	429/38	231
	2	429/40	286
	4	429/46	55
	9	429/13	755

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/502	1	429/28	36
	1	429/41	124
	1	429/42	198
429/503	1	429/12	227
	1	429/15	98
429/504	1	429/12	227
	1	429/14	68
	1	429/17	470
	1	429/19	246
	1	429/27	352
	1	429/42	198
	2	429/13	755
	2	429/44	209
429/505	1	429/19	246
	1	429/27	352
	1	429/39	160
	1	429/43	24
	2	429/13	755
	2	429/41	124
	3	429/12	227
	4	429/44	209
	5	429/34	745
	8	429/40	286
	16	429/42	198
429/506	1	429/15	98
	1	429/35	194
	1	429/40	286
	2	429/34	745
	2	429/42	198
	5	429/13	755
429/507	1	429/28	36
429/508	1	429/14	68
	1	429/25	111
	1	429/26	402
	1	429/30	334
	1	429/33	348
	1	429/38	231
	1	429/41	124
	1	429/45	34
	2	429/16	94
	2	429/27	352
	2	429/42	198
	5	429/44	209
429/508	7	429/35	194

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	7	429/39	160
	16	429/34	745
429/509	1	429/12	227
	1	429/13	755
	1	429/27	352
	1	429/31	105
	2	429/41	124
	2	429/44	209
	3	429/39	160
	4	429/36	76
	4	429/37	54
	12	429/38	231
	13	429/35	194
	38	429/34	745
429/51	1	429/35	194
	2	429/18	32
	4	429/19	246
	17	429/15	98
429/510	1	429/32	162
	1	429/37	54
	1	429/39	160
	1	429/40	286
	1	429/42	198
	2	429/12	227
	4	429/35	194
	7	429/36	76
	8	429/34	745
429/511	1	429/19	246
	1	429/34	745
	1	429/38	231
	1	429/40	286
	2	429/36	76
	2	429/37	54
	5	429/35	194
429/512	2	429/12	227
	5	429/34	745
429/513	1	429/17	470
	1	429/18	32
	1	429/27	352
	1	429/29	85
	1	429/30	334
	1	429/31	105
	2	429/12	227
429/513	2	429/13	755
	2	429/19	246

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	2	429/20	140
	2	429/32	162
	2	429/34	745
	2	429/38	231
	3	429/14	68
	3	429/35	194
	3	429/41	124
	3	429/44	209
	5	429/39	160
	6	429/42	198
	7	429/12	227
	7	429/40	286
	22	429/34	745
429/514	1	429/33	348
	1	429/36	76
	2	429/13	755
	2	429/17	470
	2	429/30	334
	2	429/32	162
	2	429/42	198
	2	429/45	34
	3	429/40	286
	3	429/44	209
	5	429/35	194
	6	429/34	745
	14	429/38	231
	18	429/39	160
429/515	1	429/19	246
	1	429/25	111
	1	429/30	334
	1	429/38	231
	1	429/44	209
	2	429/22	169
	5	429/12	227
	6	429/34	745
429/516	1	429/12	227
	1	429/16	94
	1	429/17	470
	5	429/41	124

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/517	1	429/12	227
	1	429/38	231
	1	429/44	209
	2	429/42	198
	3	429/34	745
429/518	1	429/16	94
	1	429/32	162
	1	429/34	745
	1	429/38	231
	1	429/42	198
	1	429/44	209
	2	429/26	402
	6	429/34	745
429/519	1	429/27	352
	1	429/34	745
	2	429/44	209
429/520	1	429/42	198
	1	429/44	209
429/521	1	429/44	209
	2	429/42	198
429/522	1	429/34	745
	1	429/41	124
	1	429/44	209
	4	429/40	286
	5	429/42	198
429/523	1	429/12	227
	1	429/13	755
	1	429/15	98
	1	429/26	402
	1	429/31	105
	1	429/32	162
	1	429/35	194
	1	429/38	231
	1	429/46	55
	2	429/34	745
	3	429/27	352
	3	429/42	198
	4	429/44	209
	5	429/40	286
429/524	1	429/12	227
	1	429/17	470
	1	429/33	348
	1	429/34	745
	1	429/40	286
429/524	2	429/27	352

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	2	429/45	34
	3	429/41	124
	3	429/43	24
	4	429/13	755
	4	429/30	334
	15	429/42	198
	22	429/44	209
	28	429/40	286
429/525	1	429/42	198
	1	429/45	34
	2	429/12	227
	2	429/40	286
429/526	1	429/40	286
	2	429/44	209
429/527	1	429/12	227
	1	429/27	352
	1	429/44	209
	1	429/44	209
	2	429/13	755
	4	429/45	34
	8	429/40	286
429/528	1	429/13	755
	2	429/42	198
	3	429/44	209
	4	429/40	286
429/529	1	429/13	755
	1	429/40	286
	1	429/41	124
	1	429/44	209
	2	429/42	198
429/530	1	429/12	227
	1	429/33	348
	1	429/34	745
	1	429/41	124
	2	429/13	755
	2	429/40	286
	2	429/44	209
	17	429/42	198
429/531	1	429/43	24

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
429/532	1	429/22	169
	1	429/24	104
	1	429/33	348
	1	429/36	76
	1	429/38	231
	1	429/45	34
	2	429/13	755
	2	429/42	198
	4	429/40	286
	13	429/44	209
429/533	1	429/13	755
	1	429/30	334
	1	429/34	745
	3	429/40	286
	8	429/45	34
429/534	1	429/27	352
	1	429/34	745
	1	429/42	198
	1	429/45	34
	9	429/40	286
429/535	1	429/17	470
	1	429/27	352
	1	429/29	85
	1	429/37	54
	1	429/45	34
	1	429/46	55
	2	429/38	231
	2	429/39	160
	3	429/13	755
	3	429/32	162
	4	429/12	227
	4	429/31	105
	4	429/41	124
	5	429/36	76
	8	429/35	194
	9	429/44	209
	10	429/42	198
	11	429/40	286
	13	429/30	334
	15	429/34	745
	21	429/33	348
429/55	1	429/12	227
429/57	2	429/19	246
429/60	1	429/27	352
429/70	1	429/34	745

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SOURCE CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

New Classification	Number of ORs	Source Classification	Number of ORs
	2	429/18	32
429/83	1	429/26	402
429/900	1	429/12	227
502/335	1	429/44	209
521/25	1	429/33	348

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/12	227	148/516	2
		429/49	1
		429/55	1
		429/118	1
		429/400	2
		429/401	3
		429/402	3
		429/404	1
		429/405	1
		429/406	4
		429/408	2
		429/409	2
		429/410	6
		429/411	5
		429/412	5
		429/413	5
		429/414	3
		429/415	2
		429/416	2
		429/417	1
		429/421	2
		429/422	2
		429/423	7
		429/424	3
		429/425	5
		429/426	1
		429/428	3
		429/429	1
		429/429	7
		429/430	4
		429/431	5
		429/432	3
		429/434	5
		429/435	1
		429/437	8
		429/438	1
		429/439	1
		429/441	1
		429/442	3
		429/443	4
		429/444	4
		429/445	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/12	227	429/447	1
		429/448	2
		429/450	2
		429/452	5
		429/453	2
		429/456	4
		429/458	1
		429/460	2
		429/462	1
		429/465	1
		429/465	8
		429/468	4
		429/469	2
		429/470	3
		429/471	1
		429/475	2
		429/478	2
		429/479	2
		429/480	1
		429/481	1
		429/483	2
		429/484	1
		429/489	1
		429/492	4
		429/494	2
		429/496	1
		429/500	1
		429/501	1
		429/503	1
		429/504	1
		429/505	3
		429/509	1
		429/510	2
		429/512	2
		429/513	2
		429/513	7
		429/515	5
		429/516	1
		429/517	1
		429/523	1
		429/524	1
		429/525	2
		429/527	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/12	227	429/530	1
		429/535	4
		429/454	6
		429/900	1
429/13	755	205/637	1
		429/49	1
		429/401	1
		429/402	7
		429/403	2
		429/404	5
		429/405	15
		429/406	6
		429/407	3
		429/408	17
		429/409	11
		429/410	22
		429/411	8
		429/412	13
		429/413	41
		429/414	37
		429/415	22
		429/416	9
		429/417	1
		429/418	10
		429/420	4
		429/421	3
		429/422	2
		429/423	17
		429/424	8
		429/425	9
		429/427	1
		429/428	1
		429/428	5
		429/429	79
		429/430	29
		429/431	36
		429/432	44
		429/433	9
		429/434	1
		429/434	21
		429/435	5
		429/436	12
		429/437	16

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/13	755	429/438	3
		429/439	2
		429/440	2
		429/441	4
		429/442	27
		429/443	9
		429/444	25
		429/445	5
		429/446	7
		429/447	2
		429/448	3
		429/449	3
		429/450	9
		429/452	2
		429/453	2
		429/456	1
		429/457	3
		429/458	1
		429/460	2
		429/461	1
		429/465	3
		429/469	1
		429/470	1
		429/476	1
		429/478	1
		429/479	3
		429/480	1
		429/481	1
		429/483	3
		429/484	1
		429/488	1
		429/489	1
		429/492	2
		429/494	2
		429/495	4
		429/496	2
		429/498	11
		429/499	7
		429/500	17
		429/501	9
		429/504	2
		429/505	2
		429/506	5

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/13	755	429/509	1
		429/513	2
		429/514	2
		429/523	1
		429/524	4
		429/527	2
		429/528	1
		429/529	1
		429/530	2
		429/532	2
		429/533	1
		429/535	3
		429/454	2
		429/455	2
		429/218.1	1
429/14	68	429/403	1
		429/404	1
		429/405	5
		429/406	1
		429/408	5
		429/409	21
		429/410	3
		429/415	5
		429/423	1
		429/429	2
		429/432	1
		429/434	2
		429/442	1
		429/448	1
		429/451	9
		429/453	1
		429/460	1
		429/463	1
		429/501	1
		429/504	1
		429/508	1
		429/513	3
429/15	98	429/49	1
		429/51	17
		429/102	1
		429/105	2
		429/109	2
		429/199	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/15	98	429/200	2
		429/229	1
		429/347	2
		429/400	1
		429/402	2
		429/404	11
		429/405	4
		429/406	7
		429/409	10
		429/410	2
		429/413	1
		429/415	4
		429/417	2
		429/419	1
		429/422	2
		429/423	1
		429/425	1
		429/444	2
		429/445	1
		429/447	2
		429/450	1
		429/451	1
		429/470	1
		429/494	2
		429/498	2
		429/500	2
		429/501	2
		429/503	1
		429/506	1
		429/523	1
429/16	94	429/103	1
		429/401	1
		429/402	2
		429/403	2
		429/405	2
		429/408	6
		429/409	4
		429/410	6
		429/411	3
		429/415	4
		429/418	1
		429/419	3
		429/420	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/16	94	429/423	6
		429/424	1
		429/425	8
		429/426	2
		429/429	1
		429/430	1
		429/432	1
		429/433	1
		429/434	1
		429/439	1
		429/442	14
		429/451	1
		429/464	3
		429/472	4
		429/473	2
		429/475	2
		429/477	1
		429/478	2
		429/508	2
		429/516	1
		429/518	1
		429/454	1
429/17	470	204/245	1
		429/245	1
		429/401	3
		429/402	7
		429/403	2
		429/404	3
		429/405	4
		429/406	7
		429/407	2
		429/408	2
		429/409	9
		429/410	29
		429/411	53
		429/412	40
		429/413	15
		429/414	17
		429/415	58
		429/416	14
		429/417	5
		429/418	5
		429/419	10

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/17	470	429/420	1
		429/420	16
		429/421	14
		429/422	9
		429/423	40
		429/424	7
		429/425	30
		429/426	5
		429/429	1
		429/431	5
		429/432	9
		429/434	6
		429/435	2
		429/437	1
		429/440	7
		429/441	2
		429/442	3
		429/443	1
		429/444	4
		429/446	1
		429/449	1
		429/450	2
		429/458	1
		429/482	1
		429/483	2
		429/489	1
		429/492	1
		429/497	1
		429/500	1
		429/504	1
		429/513	1
		429/514	2
		429/516	1
		429/524	1
		429/535	1
		429/454	1
429/18	32	429/51	2
		429/70	2
		429/403	2
		429/404	1
		429/406	1
		429/408	1
		429/409	3

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/18	32	429/429	1
		429/430	1
		429/431	1
		429/443	1
		429/453	12
		429/457	1
		429/469	1
		429/513	1
		429/454	1
429/19	246	204/157.5	1
		429/51	4
		429/57	2
		429/107	1
		429/400	3
		429/401	2
		429/402	3
		429/403	1
		429/404	3
		429/405	1
		429/407	2
		429/408	3
		429/409	1
		429/410	18
		429/411	13
		429/412	19
		429/413	8
		429/414	3
		429/415	14
		429/416	19
		429/417	4
		429/418	4
		429/420	4
		429/421	18
		429/422	6
		429/423	28
		429/424	9
		429/425	18
		429/426	1
		429/429	1
		429/430	2
		429/434	2
		429/437	2
		429/439	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/19	246	429/440	1
		429/442	1
		429/443	3
		429/444	1
		429/450	2
		429/457	1
		429/458	1
		429/460	1
		429/461	1
		429/468	1
		429/479	2
		429/483	1
		429/492	1
		429/500	1
		429/504	1
		429/505	1
		429/511	1
		429/513	2
		429/515	1
		429/455	1
429/20	140	429/101	1
		429/123	1
		429/400	3
		429/404	1
		429/410	6
		429/411	4
		429/412	10
		429/413	7
		429/415	9
		429/416	7
		429/418	4
		429/419	1
		429/420	4
		429/421	7
		429/422	3
		429/423	24
		429/424	6
		429/425	14
		429/429	4
		429/432	1
		429/434	14
		429/440	1
		429/442	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/20	140	429/443	1
		429/456	1
		429/481	1
		429/482	1
		429/513	2
429/21	59	429/105	1
		429/400	5
		429/402	1
		429/403	3
		429/404	3
		429/406	1
		429/409	1
		429/412	2
		429/413	2
		429/415	2
		429/416	1
		429/418	2
		429/421	2
		429/422	14
		429/425	3
		429/428	1
		429/434	1
		429/443	3
		429/478	1
		429/487	1
		429/492	1
		429/498	2
		429/499	3
		429/500	3
429/22	169	429/402	1
		429/403	2
		429/404	6
		429/406	2
		429/409	1
		429/410	7
		429/411	6
		429/412	6
		429/413	14
		429/414	3
		429/415	6
		429/416	3
		429/417	1
		429/418	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/22	169	429/423	10
		429/425	4
		429/427	2
		429/428	1
		429/429	14
		429/430	6
		429/431	11
		429/432	11
		429/434	1
		429/436	2
		429/437	1
		429/438	2
		429/440	1
		429/442	4
		429/443	4
		429/444	13
		429/445	1
		429/446	2
		429/447	2
		429/448	1
		429/449	2
		429/450	3
		429/451	1
		429/462	2
		429/482	1
		429/483	2
		429/500	1
		429/515	2
		429/532	1
429/23	120	429/406	1
		429/410	2
		429/411	1
		429/412	1
		429/413	8
		429/414	1
		429/415	2
		429/416	4
		429/420	1
		429/421	1
		429/422	1
		429/423	8
		429/424	2
		429/425	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/23	120	429/428	1
		429/429	5
		429/430	27
		429/431	20
		429/432	27
		429/435	1
		429/449	1
		429/458	1
		429/460	1
		429/483	1
		429/494	1
429/24	104	429/404	1
		429/409	1
		429/410	4
		429/412	3
		429/413	16
		429/414	4
		429/415	5
		429/416	1
		429/421	1
		429/423	7
		429/424	2
		429/425	1
		429/429	6
		429/430	6
		429/431	4
		429/432	2
		429/433	1
		429/434	1
		429/434	3
		429/435	8
		429/436	6
		429/437	1
		429/438	1
		429/439	1
		429/440	1
		429/441	1
		429/442	12
		429/444	1
		429/446	1
		429/532	1
		429/231.9	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/25	111	429/406	2
		429/409	1
		429/410	11
		429/411	4
		429/412	2
		429/413	14
		429/414	4
		429/415	8
		429/416	1
		429/417	1
		429/420	1
		429/421	2
		429/422	1
		429/423	3
		429/424	1
		429/425	1
		429/429	5
		429/430	1
		429/431	2
		429/432	2
		429/434	1
		429/436	2
		429/437	5
		429/441	1
		429/442	3
		429/443	4
		429/444	14
		429/446	7
		429/447	2
		429/451	1
		429/465	1
		429/501	1
		429/508	1
		429/515	1
429/26	402	165/48.1	1
		244/30	1
		429/83	1
		429/120	2
		429/400	1
		429/403	2
		429/405	3
		429/406	4
		429/407	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/26	402	429/410	8
		429/411	5
		429/412	4
		429/413	37
		429/414	13
		429/415	6
		429/416	2
		429/418	2
		429/419	1
		429/420	1
		429/422	1
		429/423	22
		429/424	3
		429/425	6
		429/429	16
		429/430	2
		429/432	1
		429/433	3
		429/434	102
		429/435	24
		429/436	5
		429/437	40
		429/438	10
		429/439	30
		429/440	7
		429/441	4
		429/442	1
		429/444	2
		429/445	1
		429/450	2
		429/452	2
		429/456	2
		429/459	1
		429/460	1
		429/465	1
		429/468	4
		429/470	1
		429/479	2
		429/483	2
		429/495	2
		429/508	1
		429/518	2
		429/523	1
		429/454	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/27	352	429/60	1
		429/110	1
		429/206	1
		429/210	1
		429/219	1
		429/400	5
		429/402	36
		429/403	32
		429/404	36
		429/405	63
		429/406	76
		429/407	54
		429/409	1
		429/414	1
		429/418	1
		429/421	1
		429/422	1
		429/425	1
		429/443	1
		429/444	1
		429/447	1
		429/453	2
		429/462	1
		429/463	1
		429/483	1
		429/484	2
		429/488	2
		429/489	3
		429/493	1
		429/495	1
		429/499	2
		429/500	2
		429/501	1
		429/504	1
		429/505	1
		429/508	2
		429/509	1
		429/513	1
		429/519	1
		429/523	3
		429/524	2
		429/527	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/27	352	429/534	1
		429/535	1
		429/218.2	2
429/28	36	429/403	1
		429/404	2
		429/405	6
		429/406	14
		429/410	1
		429/414	1
		429/435	1
		429/463	1
		429/468	3
		429/490	1
		429/499	2
		429/502	1
		429/507	1
		429/455	1
429/29	85	429/402	17
		429/403	7
		429/404	2
		429/405	10
		429/406	35
		429/410	1
		429/417	1
		429/442	1
		429/464	1
		429/474	1
		429/482	1
		429/491	1
		429/492	1
		429/493	1
		429/498	1
		429/499	1
		429/513	1
		429/535	1
		429/454	1
429/30	334	204/293	1
		204/410	1
		429/220	1
		429/318	1
		429/404	1
		429/406	1
		429/408	3

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/30	334	429/409	1
		429/410	3
		429/412	1
		429/413	5
		429/414	1
		429/416	2
		429/418	1
		429/422	1
		429/423	4
		429/425	2
		429/429	1
		429/430	2
		429/431	3
		429/433	2
		429/434	12
		429/437	2
		429/439	1
		429/442	4
		429/443	2
		429/444	1
		429/446	1
		429/449	1
		429/450	1
		429/452	1
		429/453	1
		429/456	9
		429/457	6
		429/458	5
		429/459	1
		429/460	3
		429/465	27
		429/466	4
		429/467	2
		429/468	4
		429/469	4
		429/471	1
		429/479	17
		429/480	16
		429/481	17
		429/482	9
		429/483	17
		429/484	1
		429/485	4

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/30	334	429/486	9
		429/487	2
		429/488	1
		429/488	3
		429/489	6
		429/491	4
		429/492	16
		429/493	1
		429/493	7
		429/494	1
		429/494	11
		429/495	1
		429/495	23
		429/496	4
		429/499	1
		429/500	1
		429/508	1
		429/513	1
		429/514	2
		429/515	1
		429/524	4
		429/533	1
		429/535	13
		429/454	8
429/31	105	429/410	1
		429/415	1
		429/420	1
		429/421	2
		429/422	1
		429/423	6
		429/425	2
		429/432	1
		429/434	2
		429/441	1
		429/452	1
		429/456	12
		429/457	1
		429/458	1
		429/459	1
		429/463	1
		429/465	9
		429/466	12
		429/468	3

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/31	105	429/479	1
		429/480	2
		429/481	3
		429/482	1
		429/484	4
		429/486	6
		429/489	1
		429/492	5
		429/494	1
		429/496	4
		429/497	3
		429/509	1
		429/513	1
		429/523	1
		429/535	4
		429/454	8
429/32	162	429/402	1
		429/406	2
		429/410	2
		429/411	1
		429/412	1
		429/413	3
		429/415	2
		429/423	5
		429/425	1
		429/430	1
		429/434	9
		429/435	4
		429/437	4
		429/439	1
		429/440	1
		429/442	2
		429/443	2
		429/444	1
		429/450	1
		429/456	24
		429/457	11
		429/458	11
		429/459	2
		429/460	2
		429/461	1
		429/463	1
		429/465	29

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/32	162	429/466	2
		429/468	1
		429/470	1
		429/471	1
		429/479	2
		429/481	3
		429/484	1
		429/485	2
		429/489	1
		429/490	1
		429/492	1
		429/495	1
		429/496	2
		429/510	1
		429/513	2
		429/514	2
		429/518	1
		429/523	1
		429/535	3
		429/454	6
		429/455	2
429/33	348	29/623.1	1
		252/62.2	2
		429/303	1
		429/304	1
		429/306	1
		429/309	1
		429/317	1
		429/330	1
		429/406	2
		429/408	1
		429/410	1
		429/411	2
		429/413	3
		429/414	2
		429/421	2
		429/423	2
		429/428	2
		429/431	3
		429/432	1
		429/434	1
		429/438	1
		429/442	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/33	348	429/444	1
		429/446	1
		429/456	1
		429/457	1
		429/458	1
		429/460	3
		429/465	18
		429/466	1
		429/474	2
		429/475	1
		429/478	3
		429/479	1
		429/480	16
		429/481	9
		429/482	16
		429/483	7
		429/484	1
		429/484	3
		429/485	4
		429/486	8
		429/487	7
		429/488	2
		429/489	8
		429/490	5
		429/491	3
		429/491	6
		429/492	43
		429/493	35
		429/494	1
		429/494	40
		429/495	14
		429/496	20
		429/499	3
		429/500	1
		429/508	1
		429/514	1
		429/524	1
		429/530	1
		429/532	1
		429/535	21
		429/454	1
		521/25	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/34	745	361/311	1
		429/70	1
		429/107	1
		429/403	1
		429/404	5
		429/405	2
		429/406	2
		429/407	1
		429/408	3
		429/409	4
		429/410	28
		429/411	5
		429/412	1
		429/413	19
		429/414	12
		429/415	22
		429/416	6
		429/417	5
		429/418	2
		429/421	9
		429/422	5
		429/423	9
		429/424	1
		429/424	7
		429/425	6
		429/426	2
		429/427	1
		429/428	1
		429/429	5
		429/430	4
		429/431	3
		429/432	4
		429/433	9
		429/434	46
		429/435	6
		429/436	1
		429/437	11
		429/439	2
		429/440	1
		429/441	2
		429/442	5
		429/443	12
		429/444	21

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/34	745	429/446	7
		429/447	6
		429/448	4
		429/450	14
		429/451	10
		429/452	3
		429/453	2
		429/456	12
		429/457	16
		429/458	16
		429/459	5
		429/460	2
		429/461	4
		429/463	6
		429/464	2
		429/465	16
		429/466	1
		429/467	4
		429/468	11
		429/469	7
		429/470	9
		429/471	4
		429/472	1
		429/474	1
		429/476	1
		429/478	6
		429/479	1
		429/479	7
		429/480	11
		429/481	7
		429/482	1
		429/483	8
		429/487	2
		429/490	1
		429/491	1
		429/492	18
		429/493	1
		429/494	3
		429/495	7
		429/496	1
		429/498	12
		429/499	6
		429/500	4

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/34	745	429/501	2
		429/505	5
		429/506	2
		429/508	16
		429/509	38
		429/510	8
		429/511	1
		429/512	5
		429/513	2
		429/513	22
		429/514	6
		429/515	6
		429/517	3
		429/518	1
		429/518	6
		429/519	1
		429/522	1
		429/523	2
		429/524	1
		429/530	1
		429/533	1
		429/534	1
		429/535	15
		429/454	38
		429/455	5
429/35	194	429/51	1
		429/406	2
		429/407	2
		429/412	1
		429/413	1
		429/425	1
		429/427	1
		429/432	2
		429/433	2
		429/434	15
		429/435	9
		429/437	4
		429/441	1
		429/442	2
		429/444	2
		429/450	1
		429/451	1
		429/453	3

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/35	194	429/456	7
		429/457	6
		429/458	4
		429/459	3
		429/460	22
		429/461	2
		429/463	3
		429/464	1
		429/465	4
		429/468	1
		429/469	6
		429/470	1
		429/478	2
		429/479	1
		429/480	4
		429/481	5
		429/483	8
		429/486	1
		429/492	2
		429/495	3
		429/498	2
		429/499	2
		429/500	4
		429/506	1
		429/508	7
		429/509	13
		429/510	4
		429/511	5
		429/513	3
		429/514	5
		429/523	1
		429/535	8
		429/454	2
429/36	76	429/400	1
		429/406	1
		429/434	3
		429/437	2
		429/442	1
		429/453	1
		429/456	3
		429/457	5
		429/458	2
		429/460	7

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/36	76	429/463	1
		429/465	4
		429/469	6
		429/470	1
		429/480	1
		429/481	1
		429/483	3
		429/488	1
		429/492	4
		429/494	3
		429/498	2
		429/500	1
		429/501	1
		429/509	4
		429/510	7
		429/511	2
		429/514	1
		429/532	1
		429/535	5
		429/454	1
429/37	54	429/406	1
		429/408	1
		429/413	1
		429/414	1
		429/425	2
		429/434	2
		429/435	1
		429/439	1
		429/456	2
		429/457	3
		429/458	2
		429/459	1
		429/460	6
		429/465	3
		429/469	4
		429/470	10
		429/483	4
		429/509	4
		429/510	1
		429/511	2
		429/535	1
		429/454	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/38	231	429/405	1
		429/406	3
		429/408	2
		429/410	3
		429/411	1
		429/413	4
		429/414	1
		429/414	2
		429/415	4
		429/416	1
		429/421	1
		429/422	2
		429/423	2
		429/425	4
		429/427	1
		429/429	1
		429/430	1
		429/431	2
		429/432	2
		429/433	1
		429/434	19
		429/435	4
		429/437	14
		429/439	1
		429/441	1
		429/442	1
		429/443	2
		429/444	6
		429/446	5
		429/448	2
		429/450	6
		429/451	1
		429/452	1
		429/456	15
		429/457	16
		429/458	16
		429/459	2
		429/460	1
		429/460	4
		429/463	1
		429/465	2
		429/468	1
		429/469	3

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/38	231	429/475	1
		429/478	1
		429/480	1
		429/481	3
		429/483	6
		429/489	1
		429/492	5
		429/495	2
		429/498	1
		429/499	1
		429/500	1
		429/501	2
		429/508	1
		429/509	12
		429/511	1
		429/513	2
		429/514	14
		429/515	1
		429/517	1
		429/518	1
		429/523	1
		429/532	1
		429/535	2
		429/454	4
		429/455	1
429/39	160	429/402	1
		429/405	1
		429/406	1
		429/407	1
		429/413	3
		429/414	4
		429/415	5
		429/423	1
		429/425	1
		429/431	1
		429/433	2
		429/434	15
		429/435	3
		429/437	2
		429/439	3
		429/442	2
		429/443	1
		429/444	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/39	160	429/446	2
		429/450	3
		429/456	8
		429/457	18
		429/458	4
		429/459	2
		429/460	3
		429/461	1
		429/463	1
		429/465	2
		429/469	1
		429/478	2
		429/479	1
		429/480	3
		429/481	1
		429/482	1
		429/483	3
		429/492	7
		429/495	2
		429/498	1
		429/499	1
		429/505	1
		429/508	7
		429/509	3
		429/510	1
		429/513	5
		429/514	18
		429/535	2
		429/454	7
429/40	286	429/402	1
		429/403	1
		429/404	1
		429/405	2
		429/406	5
		429/409	2
		429/411	1
		429/412	5
		429/413	2
		429/414	2
		429/416	1
		429/417	1
		429/418	1
		429/420	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/40	286	429/421	3
		429/423	3
		429/425	3
		429/431	1
		429/432	1
		429/434	2
		429/437	2
		429/440	1
		429/442	2
		429/444	1
		429/445	1
		429/452	2
		429/458	1
		429/464	1
		429/465	1
		429/465	12
		429/468	3
		429/474	3
		429/478	15
		429/479	4
		429/480	7
		429/481	11
		429/482	2
		429/483	19
		429/484	2
		429/485	1
		429/486	2
		429/487	1
		429/488	4
		429/489	8
		429/490	1
		429/492	7
		429/493	2
		429/494	3
		429/495	1
		429/496	1
		429/498	10
		429/499	5
		429/500	3
		429/501	2
		429/505	8
		429/506	1
		429/510	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/40	286	429/511	1
		429/513	7
		429/514	3
		429/522	4
		429/523	5
		429/524	1
		429/524	28
		429/525	2
		429/526	1
		429/527	8
		429/528	4
		429/529	1
		429/530	2
		429/532	4
		429/533	3
		429/534	9
		429/535	11
		429/454	1
429/41	124	429/405	1
		429/409	1
		429/412	1
		429/425	1
		429/429	1
		429/431	1
		429/432	1
		429/450	2
		429/457	2
		429/460	2
		429/462	1
		429/465	2
		429/466	1
		429/467	1
		429/468	1
		429/470	1
		429/474	6
		429/475	2
		429/477	1
		429/478	14
		429/480	10
		429/481	3
		429/482	3
		429/483	5
		429/484	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/41	124	429/485	2
		429/486	1
		429/487	3
		429/488	1
		429/489	1
		429/491	1
		429/492	1
		429/494	5
		429/498	13
		429/499	2
		429/500	2
		429/501	1
		429/502	1
		429/505	2
		429/508	1
		429/509	2
		429/513	3
		429/516	5
		429/522	1
		429/524	3
		429/529	1
		429/530	1
		429/535	4
		429/454	1
429/42	198	429/213	1
		429/402	3
		429/405	3
		429/409	1
		429/410	1
		429/412	1
		429/414	1
		429/423	1
		429/432	2
		429/437	1
		429/444	1
		429/446	1
		429/456	1
		429/461	1
		429/465	1
		429/475	1
		429/477	2
		429/479	1
		429/480	11

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/42	198	429/481	11
		429/482	1
		429/483	12
		429/484	2
		429/485	1
		429/490	6
		429/491	1
		429/492	3
		429/493	2
		429/494	4
		429/498	16
		429/499	7
		429/500	1
		429/501	1
		429/502	1
		429/504	1
		429/505	16
		429/506	2
		429/508	2
		429/510	1
		429/513	6
		429/514	2
		429/517	2
		429/518	1
		429/520	1
		429/521	2
		429/522	5
		429/523	3
		429/524	15
		429/525	1
		429/528	2
		429/529	2
		429/530	17
		429/532	2
		429/534	1
		429/535	10
429/43	24	429/401	10
		429/402	1
		429/443	1
		429/451	1
		429/480	1
		429/481	2
		429/494	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/43	24	429/498	1
		429/501	1
		429/505	1
		429/524	3
		429/531	1
429/44	209	429/105	1
		429/401	1
		429/402	1
		429/405	2
		429/406	3
		429/409	3
		429/411	2
		429/412	2
		429/414	1
		429/416	1
		429/421	2
		429/423	1
		429/425	2
		429/431	2
		429/432	1
		429/434	3
		429/437	3
		429/442	2
		429/452	3
		429/457	2
		429/458	2
		429/465	3
		429/466	2
		429/468	2
		429/478	3
		429/480	12
		429/481	3
		429/482	2
		429/483	12
		429/484	4
		429/485	1
		429/486	2
		429/487	2
		429/489	2
		429/492	4
		429/496	1
		429/498	11
		429/499	7

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/44	209	429/500	8
		429/501	1
		429/504	2
		429/505	4
		429/508	5
		429/509	2
		429/513	3
		429/514	3
		429/515	1
		429/517	1
		429/518	1
		429/519	2
		429/520	1
		429/521	1
		429/522	1
		429/523	4
		429/524	22
		429/526	2
		429/527	1
		429/528	3
		429/529	1
		429/530	2
		429/532	13
		429/535	9
		429/454	1
		502/335	1
429/45	34	429/474	2
		429/482	1
		429/483	1
		429/484	1
		429/489	1
		429/496	2
		429/498	1
		429/499	3
		429/508	1
		429/514	2
		429/524	2
		429/525	1
		429/527	4
		429/532	1
		429/533	8
		429/534	1
		429/535	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS IN NEWLY ESTABLISHED SUBCLASSES REPORT

Generated by Data Control Division

Source Classification	Number of ORs	New Classification	Number of ORs
429/45	34	429/454	1
429/46	55	429/207	1
		429/402	1
		429/404	1
		429/405	3
		429/406	1
		429/410	1
		429/411	2
		429/414	1
		429/421	1
		429/422	1
		429/423	1
		429/464	1
		429/472	1
		429/474	1
		429/475	4
		429/477	3
		429/478	7
		429/482	1
		429/491	1
		429/494	2
		429/495	1
		429/498	1
		429/499	3
		429/500	9
		429/501	4
		429/523	1
		429/535	1

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C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

USPC Class	USPC Subclass	IPC Subclass	IPC Notation
429	400	H01M	08/00
	401		08/16
	402		08/22
	403		08/22
	404		08/22
	405		08/22
			04/36
	406		08/22
			04/42
	407		08/22
	408		08/06
	409		08/06
	410		08/06
	411		08/06
	412		08/06
	413		08/06
	414		08/06
	415		08/06
	416		08/06
	417		08/18
	418		08/18
	419		08/18
	420		08/06
	421		08/06
	422		08/06
	423		08/06
	424		08/06
	425		08/06
	426		08/06
	427		08/06
	428		08/04
	429		08/04
	430		08/04
	431		08/04
	432		08/04
	433		08/04
	434		08/04
	435		08/04
	436		08/04
	437		08/04
	438		08/04
	439		08/04
	440		08/04
	441		08/04
	442		08/04
	443		08/04
	444		08/04

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

USPC Class	USPC Subclass	IPC Subclass	IPC Notation
429	445	H01M	08/04
	446		08/04
	447		08/04
	448		08/04
	449		08/04
	450		08/04
	451		08/04
	452		08/24
	453		08/24
			02/34
	454		08/24
			02/38
			02/40
	455		08/24
			02/38
			02/40
	456		08/24
			02/38
			02/40
	457		08/24
			02/38
			02/40
	458		08/24
			02/38
			02/40
	459		08/24
			02/38
			02/40
	460		08/24
			02/38
			02/40
	461		08/24
			02/38
			02/40
	462		08/24
			02/38
			02/40
	463		08/24
			02/02
			02/08
	464		08/24
			08/14
	465		08/24
			08/10
	466		08/24
	467		08/24
			02/20

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

USPC Class	USPC Subclass	IPC Subclass	IPC Notation
429	468	H01M	08/24
			02/20
	469		08/24
			02/20
	470		08/24
			02/20
	471		08/24
	472		08/14
	473		08/14
	474		08/14
	475		08/14
	476		08/14
	477		08/14
	478		08/14
	479		08/10
	480		08/10
	481		08/10
	482		08/10
	483		08/10
	484		08/10
			04/36
	485		08/10
			04/38
	486		08/10
	487		08/10
			04/92
	488		08/10
			04/48
	489		08/10
			04/48
	490		08/10
	491		08/10
	492		08/10
	493		08/10
	494		08/10
	495		08/10
	496		08/10
			08/12
	497		08/10
	498		08/08
	499		08/08
	500		08/08
	501		08/08
	502		08/22
	503		08/22
	504		08/22
	505		08/22

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

USPC Class	USPC Subclass	IPC Subclass	IPC Notation
429	506	H01M	08/22
	507		02/08
			02/14
	508		02/08
			02/14
	509		02/08
			02/14
	510		02/08
			02/14
	511		02/08
			02/14
	512		08/04
	513		08/04
	514		08/04
	515		08/04
	516		08/04
			02/14
	517		04/64
	518		04/64
	519		04/64
			04/66
	520		04/64
	521		04/64
	522		04/64
	523		04/02
			04/36
	524		04/02
			04/36
			04/92
	525		04/02
			04/36
			04/94
	526		04/02
			04/36
			04/90
	527		04/02
			04/36
			04/90
	528		04/02
			04/36
			04/90
	529		04/02
			04/36
	530		04/02
			04/36
	531		04/02

C. CHANGES TO THE USPC-TO-IPC CONCORDANCE

USPC Class	USPC Subclass	IPC Subclass	IPC Notation
429	531	H01M	04/36
			04/86
			04/96
	532		04/02
			04/36
			04/62
	533		04/02
			04/36
	534		04/02
			04/36
	535		08/00

D. CHANGES TO THE DEFINITIONS

CLASS 29 – METAL WORKING

Definitions Modified

Subclass 623.1: Under SEE OR SEARCH CLASS

Insert:

427, Coating Processes, subclass 115 for a coating process which results in an element for use in a fuel cell.

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclass 535 for process of making a fuel cell or subcombination thereof.

D. CHANGES TO THE DEFINITIONS

CLASS 48 – GAS: HEATING AND ILLUMINATING

Definitions Modified

Subclass 61: Under SEE OR SEARCH CLASS

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclasses 408-427 for fuel cell operation including methods or means for producing, recycling, or treating reactant, feedstock, product, or electrolyte.

Subclass 127.9: Under SEE OR SEARCH CLASS

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclasses 408-427 for fuel cell operation including methods or means for producing, recycling, or treating reactant, feedstock, product, or electrolyte.

D. CHANGES TO THE DEFINITIONS

CLASS 204 – CHEMISTRY: ELECTRICAL AND WAVE ENERGY

Definitions Modified

Subclass 280: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 429

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclasses 209 through 246 for electrodes specialized for electrical current producing cells and subclasses 523-528 for fuel cell catalytic electrodes.

D. CHANGES TO THE DEFINITIONS

CLASS 205 – ELECTROLYSIS: PROCESSES, COMPOSITIONS USED THEREIN, AND METHODS OF PREPARING THE COMPOSITIONS

Definitions Modified

Subclass 343: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 429

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, appropriate subclasses for the various parts or operation of the fuel cell, especially subclasses 400-535.

D. CHANGES TO THE DEFINITIONS

CLASS 210 – LIQUID PURIFICATION OR SEPARATION

Definitions Modified

Class Definition: Under SECTION III - REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 429

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, especially subclasses 101-109, 188-207, and 408-412. (Class Providing Treatment of a Specific Liquid).

D. CHANGES TO THE DEFINITIONS

CLASS 427 – COATING PROCESSES

Definitions Modified

Subclass 115: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 136

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclasses 400 through 535 for a fuel cell or electrode.

D. CHANGES TO THE DEFINITIONS

CLASS 428 – STOCK MATERIAL OR MISCELLANEOUS ARTICLES

Definitions Modified

Class Definition: Under SECTION II – LINES WITH OTHER CLASSES AND WITHIN THIS CLASS, (1) Note (b)

Delete:

Class 429, subclasses 40+ provide for a catalytic fuel cell electrode structure, subclasses 129+ and 247+ for a battery separator or retainer, subclasses 209+ for a battery electrode and subclasses 233+ for a battery grid.

Insert:

Class 429, subclasses 129-147 and 247-255 for a battery separator or retainer, subclasses 209-246 for a battery electrode, subclasses 233-245 for a battery grid, subclasses 484-489 provide for solid electrode fuel cells having specified electrode materials, and subclasses 523-534 provide for electrode structure or compositions for use in fuel cells.

D. CHANGES TO THE DEFINITIONS

CLASS 429 – CHEMISTRY: ELECTRICAL CURRENT PRODUCING APPARATUS, PRODUCT, AND PROCESS

Definitions Abolished

Subclasses

12-46

Definitions Modified

Subclass 51: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 14

Insert:

408, for a process of circulating electrolyte in a fuel cell.

Subclass 67: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 12

Insert:

408, 450, 451, and 544 for a process or means for moving an electrolyte in a fuel cell.

Subclass 101: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclass 12

D. CHANGES TO THE DEFINITIONS

Insert:

400, through 535, for fluid active material which is supplied from an external source, e.g., fuel cell, etc.

Subclass 120: Under SEE OR SEARCH THIS CLASS,SUBCLASS

Delete:

The reference to subclass 26

Insert:

434, through 442, for a fuel cell with heat exchange feature.

Subclass 188: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

The reference to subclasses 29, 33, and 36

Insert:

112, for fused salt or molten electrolyte materials.

472, 479, and 498-501, for electrolyte materials having utility in fuel cells.

Subclass 306: After the (1) Note

Insert:

SEE OR SEARCH CLASS:

521, Synthetic Resins or Natural Rubbers, subclasses 25 through 39 for ion-exchange polymers and methods of preparing.

D. CHANGES TO THE DEFINITIONS

Definitions Established

400 FUEL CELL, SUBCOMBINATION THEREOF, OR METHOD OF MAKING OR OPERATING:

This subclass is indented under the class definition. Apparatus for producing an electrical current wherein at least one active material or reactant is supplied to an electrochemical cell from an external source, e.g., fuel cell, metal/air cell, etc., subcombination of the apparatus, or a process of making or operating the same.

SEE OR SEARCH THIS CLASS, SUBCLASS:

50, through 52, for a process of operating a tape cell.

127, for tape or flexible batteries having means to sequentially or continuously move active electrode material into position to produce an electrical current.

SEE OR SEARCH CLASS:

205, Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions, subclass 343 for subject matter wherein an electrolytic synthesis cell is combined with a fuel cell or is converted from a fuel cell to a synthesis cell.

431, Combustion, for processes of combustion or combustion starting, and for apparatus particularly adapted to burn or ignite materials.

401 Biochemical fuel cell:

This subclass is indented under subclass 400. Subject matter comprising a fuel cell including a chemical component derived from a biological source, e.g., a bacterial reactant or algae, etc.

402 Metal-gas cell:

This subclass is indented under subclass 400. Subject matter comprising an electricity generating cell comprising a metal or metallic anode and a cathode supplied with a gas from an external source.

403 Gas is air or oxygen:

This subclass is indented under subclass 402. Subject matter wherein the cathode is supplied with air or oxygen.

404 Having means for metal fuel resupply:

This subclass is indented under subclass 403. Subject matter comprising an apparatus or system wherein the metal fuel is renewed or resupplied during the operation of the cell.

D. CHANGES TO THE DEFINITIONS

405 With specified electrode structure or material:
This subclass is indented under subclass 403. Subject matter wherein the electrode has a particular form or composition.

406 Zinc anode:
This subclass is indented under subclass 405. Subject matter wherein the anode comprises zinc metal.

407 Having means for directing oxidant flow:
This subclass is indented under subclass 403. Subject matter comprising an apparatus or system that assists or enables the flow of air or oxygen into the cell.

408 Process or means for producing, recycling, or treating reactant, feedstock, product, or electrolyte:
This subclass is indented under subclass 400. Subject matter comprising a step of or means for making, modifying, or reusing reactant, feedstock, product, or electrolyte.

SEE OR SEARCH THIS CLASS, SUBCLASS:

51, for a process of cell operation involving electrolyte circulation.

67, for a battery having means to provide relative motion between electrode and electrolyte.

72, through 89, for a battery having feeding or circulating structure.

SEE OR SEARCH CLASS:

48, Gas: Heating and Illuminating, for apparatus, processes, and compositions for the manufacture of a gas only for purposes of heating or illuminating, and means for the purification, distribution, and storage of such a gas.

409 Treatment of the electrolyte:
This subclass is indented under subclass 408. Subject matter comprising modification of the electrolyte, e.g., by removing impurities, altering its composition, etc.

410 Purification:
This subclass is indented under subclass 408. Subject matter comprising a means or process for removing adulterants, contaminants, or dilutants.

411 Hydrogen separator:
This subclass is indented under subclass 410. Subject matter comprising a means or process for enriching hydrogen, e.g., purifying reformate, etc.

D. CHANGES TO THE DEFINITIONS

412 Removing CO from reactant or product stream:
This subclass is indented under subclass 410. Subject matter comprising eliminating CO from reactant or product, e.g., by membrane filtration, adsorption, etc.

413 Humidification or dehumidification:
This subclass is indented under subclass 408. Subject matter comprising adding moisture to, or removing moisture from, the cell.

414 Removing or using product water:
This subclass is indented under subclass 413. Subject matter comprising expelling water produced by the cell reaction or adding it back into the cell.

415 Recycling unconsumed reactant:
This subclass is indented under subclass 408. Subject matter comprising recovering and reusing reactant that has not been converted to electricity or a product of a fuel cell reaction.

416 Producing reactant:
This subclass is indented under subclass 408. Subject matter comprising making reactant.

417 Regenerating reactant from a reaction product:
This subclass is indented under subclass 416. Subject matter comprising producing reactant by treating a compound created by a fuel cell reaction.

SEE OR SEARCH THIS CLASS, SUBCLASS:

49, for a battery having regeneration features.

418 By electrolysis:
This subclass is indented under subclass 417. Subject matter wherein the reactant is regenerated by passing an electrical current through a cell reaction product thereby separating chemically bonded compounds, e.g., electrochemical treatment of water to produce hydrogen and oxygen, etc.

419 Thermal regeneration:
This subclass is indented under subclass 417. Subject matter wherein the reactant is produced using heat.

420 Including water gas shift reaction:
This subclass is indented under subclass 416. Subject matter wherein the reactant is produced by a reaction of CO with water.

421 From metal, alloy, or metal-containing material:
This subclass is indented under subclass 416. Subject matter wherein the reactant is produced from a reaction or treatment of a metal, alloy, or metal-containing material, e.g., metal hydride, etc.

D. CHANGES TO THE DEFINITIONS

422 By electrochemical means:
This subclass is indented under subclass 416. Subject matter wherein the reactant is produced by an applied current, e.g., electrolysis of water, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

418, for regenerating reactant from a reaction product by electrolysis.

SEE OR SEARCH CLASS:

205, Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions, subclass 343 for subject matter wherein an electrolytic synthesis cell is combined with a fuel cell or is converted from a fuel cell to a synthesis cell.

423 Reforming process:
This subclass is indented under subclass 416. Subject matter wherein the reactant is produced by decomposing compounds, e.g., steam reformer, etc.

424 Alcohol feedstock:
This subclass is indented under subclass 423. Subject matter wherein the reactant is produced from an alcohol.

425 Hydrocarbon feedstock:
This subclass is indented under subclass 423. Subject matter wherein the reactant is produced from a hydrocarbon.

426 Gasification of solid fuel:
This subclass is indented under subclass 416. Subject matter wherein a reactant is produced from a high temperature conversion process using a solid material, e.g., coal, etc.

427 Characterized by control or measuring means or method:
This subclass is indented under subclass 408. Subject matter comprising a specified process or means for regulating or measuring production, recycling, or treatment of reactant, feedstock, product, or electrolyte.

428 Process or means for control of operation:
This subclass is indented under subclass 400. Subject matter comprising a specified process or means for regulating at least one operational parameter, e.g., heat, reactant supply, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

61, through 64, for a battery having control means responsive to a condition sensing means.

D. CHANGES TO THE DEFINITIONS

429 During startup or shutdown:
This subclass is indented under subclass 428. Subject matter wherein at least one operational parameter is controlled while starting or stopping operation.

430 Including measurement of electrical output:
This subclass is indented under subclass 428. Subject matter comprising controlling at least one operational parameter using a measurement of electrical energy produced by the cell.

431 Current:
This subclass is indented under subclass 430. Subject matter comprising controlling at least one operational parameter using current.

432 Voltage:
This subclass is indented under subclass 430. Subject matter comprising controlling at least one operational parameter using voltage.

433 Arrangement or process including thermal control:
This subclass is indented under subclass 428. Subject matter comprising controlling at least one parameter using an arrangement or process comprising control of a thermal property.

434 Including heat exchange means:
This subclass is indented under subclass 433. Subject matter comprising a process or means of thermal control whereby heat is added to or removed from a fuel cell component.

435 Plural heat exchangers:
This subclass is indented under subclass 434. Subject matter comprising multiple heat exchange units.

436 Heat exchange means external to fuel cell:
This subclass is indented under subclass 434. Subject matter comprising a heat exchange unit positioned outside of a fuel cell.

437 Liquid cooling:
This subclass is indented under subclass 434. Subject matter comprising a coolant in a liquid state.

438 Using a non-aqueous liquid coolant:
This subclass is indented under subclass 437. Subject matter comprising a liquid coolant that contains no water, e.g., alcohols, etc.

439 Gas cooling:
This subclass is indented under subclass 434. Subject matter comprising a coolant in a gaseous or vaporized state.

D. CHANGES TO THE DEFINITIONS

440 Including use of waste heat from fuel cell or afterburner:
This subclass is indented under subclass 434. Subject matter wherein thermal control of the cell is attained utilizing heat produced by the cell or heat produced by a device for burning unburned or partially burned fuel in exhaust gases of the cell.

(1) Note. This subclass accepts fuel cells wherein waste heat produced by the cell or an afterburner is used within the fuel cell process, e.g., to heat fuel cell reactants, etc.

441 Heating by combustion:
This subclass is indented under subclass 434. Subject matter comprising obtaining heat from burning a fuel.

442 Including temperature:
This subclass is indented under subclass 433. Subject matter comprising controlling at least one operational parameter using temperature.

443 Arrangement or process for reactant control (e.g., pressure or concentration, etc.):
This subclass is indented under subclass 428. Subject matter comprising regulating an operational parameter of at least one reactant.

444 Of gaseous reactant:
This subclass is indented under subclass 443. Subject matter comprising regulating at least one reactant in a gaseous state.

445 Depolarization or activation:
This subclass is indented under subclass 444. Subject matter comprising adjusting the reactivity of the gaseous reactant on the electrode.

446 Regulation of differential pressure:
This subclass is indented under subclass 444. Subject matter comprising adjusting the pressure gradient of a gaseous reactant.

447 Of liquid reactant or reactant in electrolyte:
This subclass is indented under subclass 443. Subject matter comprising regulating a least one reactant in a liquid state or contained in an electrolyte.

448 With concentration control:
This subclass is indented under subclass 447. Subject matter comprising regulating the amount of a liquid reactant per unit volume.

449 With concentration measuring means:
This subclass is indented under subclass 448. Subject matter comprising an apparatus for determining the amount of a liquid reactant per unit volume.

D. CHANGES TO THE DEFINITIONS

450 Control of electrolyte or water:
This subclass is indented under subclass 428. Subject matter comprising regulating a parameter relating to the electrolyte or water.

451 Control of electrolyte stream:
This subclass is indented under subclass 450. Subject matter comprising regulating electrolyte flow.

452 Grouping of fuel cells into stack or module:
This subclass is indented under subclass 400. Subject matter comprising a plurality of electrically connected fuel cells (i.e., a stack or module).

453 With means for reducing ionic short circuit:
This subclass is indented under subclass 452. Subject matter comprising a structure for minimizing or preventing ionic current from passing between cells.

454 With electrolyte or reactant supply or circulation:
This subclass is indented under subclass 452. Subject matter comprising means for feeding electrolyte or reactant to the cells or circulating the electrolyte within the cells.

455 With means for moving reactant:
This subclass is indented under subclass 454. Subject matter comprising a specific arrangement for transporting reactant.

456 With fluid distribution means:
This subclass is indented under subclass 454. Subject matter comprising apparatus for supplying fluid to each cell in the stack.

457 Flow field means (e.g., flow field plate, bipolar separator, etc.):
This subclass is indented under subclass 456. Subject matter comprising a component adjacent to the anode or cathode that distributes fuel, oxidant, or electrolyte to the cells.

SEE OR SEARCH THIS CLASS, SUBCLASS:

514, for a flow field plate adjacent to the anode or cathode that distributes fuel, oxidant, or electrolyte to an individual fuel cell which is not part of a stack or module.

458 Manifold:
This subclass is indented under subclass 456. Subject matter for simultaneously distributing fluid to a plurality of cells.

459 External manifold:
This subclass is indented under subclass 458. Subject matter wherein the fluid distribution means is positioned exteriorly of the fuel cells.

D. CHANGES TO THE DEFINITIONS

460 With sealing means:
This subclass is indented under subclass 458. Subject matter comprising a component for sealing an inlet or outlet of the manifold.

461 Manifold material:
This subclass is indented under subclass 458. Subject matter wherein the composition of the manifold is specified.

462 Having means for storing reactant (e.g., tank, etc.):
This subclass is indented under subclass 456. Subject matter comprising a container for storage of a reactant.

463 Comprising framed electrodes or frame-like gaskets:
This subclass is indented under subclass 452. Subject matter comprising electrodes with a specific surrounding structure or gasket.

464 With molten electrolyte:
This subclass is indented under subclass 452. Subject matter comprising a fuel cell stack wherein the electrolyte is in a fused state.

465 With solid electrolyte:
This subclass is indented under subclass 452. Subject matter comprising a fuel cell stack wherein the electrolyte is in a solid state.

466 Tubular or cylindrical configuration:
This subclass is indented under subclass 465. Subject matter wherein the solid electrolyte has a hollow or solid rod-like shape.

467 With means for stacking cells together:
This subclass is indented under subclass 452. Subject matter comprising a specified means for assembling the stack.

468 Specified material or component between adjacent cells:
This subclass is indented under subclass 467. Subject matter comprising a particular material or component placed between neighboring cells.

469 With sealing or supporting feature:
This subclass is indented under subclass 467. Subject matter comprising a means for sealing cells to prevent leaks or to maintain the position of cells in a particular arrangement.

470 With securing means:
This subclass is indented under subclass 467. Subject matter comprising a specified means for fastening the cells together.

D. CHANGES TO THE DEFINITIONS

471 Comprising a plurality of stacks (e.g., modular assembly, etc.):
This subclass is indented under subclass 452. Subject matter comprising multiple fuel cell stacks connected together.

472 Fuel cell with molten electrolyte:
This subclass is indented under subclass 400. Subject matter comprising a fuel cell wherein the electrolyte is in a fused state during operation.

SEE OR SEARCH THIS CLASS, SUBCLASS:

102, through 104, for active material in the molten state.

473 With means for preventing or reducing electrode dissolution:
This subclass is indented under subclass 472. Subject matter comprising a means for eliminating or minimizing loss of electrode material.

474 With gas diffusion electrode:
This subclass is indented under subclass 472. Subject matter wherein the fused electrolyte is in combination with a gas permeable electrode.

475 With matrix containing electrolyte:
This subclass is indented under subclass 474. Subject matter wherein the fused electrolyte is held within a three-dimensional supporting structure.

476 With liquid or solid reactant or reactant in electrolyte:
This subclass is indented under subclass 472. Subject matter comprising a reactant in liquid or solid form or contained in a fused electrolyte.

477 Specified electrolyte material:
This subclass is indented under subclass 472. Subject matter wherein the electrolyte has a defined composition.

478 Comprising a carbonate:
This subclass is indented under subclass 477. Subject matter wherein the electrolyte has a carbonate functional group.

479 Fuel cell with solid electrolyte:
This subclass is indented under subclass 400. Subject matter comprising a fuel cell having a solid material which functions as an electrolyte.

SEE OR SEARCH THIS CLASS, SUBCLASS:

304, through 323, for a battery with a solid electrolyte.

480 With gas diffusion electrode:
This subclass is indented under subclass 479. Subject matter wherein the solid electrolyte is in combination with a gas permeable electrode.

D. CHANGES TO THE DEFINITIONS

481 Specified supporting layer:
This subclass is indented under subclass 480. Subject matter wherein the electrolyte/electrode interface comprises a defined supporting lamina or structure.

482 Specified electrode/electrolyte combination:
This subclass is indented under subclass 479. Subject matter comprising a solid electrolyte fuel cell, wherein the electrode and electrolyte each have a defined composition or feature.

483 Membrane electrode assembly (MEA):
This subclass is indented under subclass 482. Subject matter wherein electrodes having a defined composition and a specific polymeric electrolyte are combined in a single unit.

484 Specified electrode material:
This subclass is indented under subclass 479. Subject matter wherein the electrode has a defined composition.

SEE OR SEARCH THIS CLASS, SUBCLASS:

523, through 534, for electrode structure or compositions for use in fuel cells.

485 Metal or alloy containing:
This subclass is indented under subclass 484. Subject matter wherein the electrode comprises a metal or alloy.

486 Metal-ceramic composite or mixture (e.g., cermet, etc.):
This subclass is indented under subclass 485. Subject matter wherein the metal or alloy is combined with a ceramic material.

487 Noble metal or alloy:
This subclass is indented under subclass 485. Subject matter wherein the electrode comprises a noble metal or alloy.

488 Oxide material:
This subclass is indented under subclass 484. Subject matter wherein the electrode comprises a compound containing oxygen with one other element.

489 Complex oxide (e.g., $M_1M_2O_3$, etc.):
This subclass is indented under subclass 488. Subject matter wherein the electrode comprises a compound containing oxygen and more than one other element.

490 Gaseous or vaporized reactant:
This subclass is indented under subclass 479. Subject matter comprising a solid electrolyte fuel cell wherein at least one reactant is in a gaseous or vaporized state.

D. CHANGES TO THE DEFINITIONS

491 Specified solid electrolyte:
This subclass is indented under subclass 479. Subject matter comprising a solid electrolyte fuel cell having a defined electrolyte composition.

492 Polymeric material (e.g., proton exchange membrane (PEM), etc.):
This subclass is indented under subclass 491. Subject matter comprising a solid electrolyte in polymeric form.

SEE OR SEARCH CLASS:

521, Synthetic Resins or Natural Rubbers, subclasses 25 through 39 for ion-exchange polymers and methods of preparing.

493 Having sulfonic acid groups:
This subclass is indented under subclass 492. Subject matter comprising a solid electrolyte in polymeric form having bonded sulfonic acid groups.

494 Fluoropolymer (e.g., Nafion, etc.):
This subclass is indented under subclass 493. Subject matter wherein a solid electrolyte is comprised of a fluoropolymer having bonded sulfonic acid groups.

495 Oxide:
This subclass is indented under subclass 491. Subject matter wherein the solid electrolyte is an oxygen compound.

496 Zirconium oxide:
This subclass is indented under subclass 495. Subject matter wherein the solid electrolyte is an oxide of zirconium, e.g., zirconia, etc.

497 Tubular-shaped solid electrolyte:
This subclass is indented under subclass 479. Subject matter wherein the solid electrolyte has a hollow cylindrical shape.

SEE OR SEARCH THIS CLASS, SUBCLASS:

466, for a tubular-shaped solid electrolyte in a fuel cell which is part of a stack or grouping.

498 Fuel cell with liquid electrolyte:
This subclass is indented under subclass 400. Subject matter comprising a fuel cell having a liquid material which functions as an electrolyte.

499 Aqueous electrolyte:
This subclass is indented under subclass 498. Subject matter comprising a water-based electrolyte.

D. CHANGES TO THE DEFINITIONS

500 Acidic:
This subclass is indented under subclass 499. Subject matter comprising a water-based electrolyte containing an acid.

501 Hydroxide:
This subclass is indented under subclass 499. Subject matter comprising a water-based electrolyte containing a hydroxide.

502 Fuel cell with specified reactant:
This subclass is indented under subclass 400. Subject matter comprising a fuel cell utilizing a defined reactant.

503 Particulate reactant (e.g., suspension, dispersion, etc.):
This subclass is indented under subclass 502. Subject matter wherein the reactant is in solid particle form.

504 Reactant contains a nitrogen compound (e.g., hydrazine, ammonia, etc.):
This subclass is indented under subclass 502. Subject matter wherein the reactant comprises a compound containing nitrogen, e.g., hydrazine, ammonia, etc.

505 Reactant includes carbon, oxygen, or hydrogen:
This subclass is indented under subclass 502. Subject matter wherein the reactant comprises a compound containing carbon, oxygen, or hydrogen.

506 Reactant is an alcohol:
This subclass is indented under subclass 505. Subject matter wherein the reactant comprises an alcohol, e.g., methanol, etc.

507 Means for joining components together:
This subclass is indented under subclass 400. Subject matter comprising a means for connecting constituents of the fuel cell.

SEE OR SEARCH THIS CLASS, SUBCLASS:

467, through 470, for a means for connecting cells together in a stack.

508 With sealing, spacing, or supporting feature:
This subclass is indented under subclass 507. Subject matter comprising a joining means which prevents leaks, separates components, or holds components of the cell in a particular arrangement.

SEE OR SEARCH THIS CLASS, SUBCLASS:

469, for a sealing or supporting feature for sealing cells to prevent leaks or to maintain the position of cells in a particular arrangement in a fuel cell stack.

D. CHANGES TO THE DEFINITIONS

532, through 534, for a matrix or support which is an integral part of the electrode.

509 Specified material:
This subclass is indented under subclass 508. Subject matter wherein the composition of the sealing, spacing, or supporting material is defined.

510 With bonded seal:
This subclass is indented under subclass 509. Subject matter wherein the specified sealing substance enables attachment of two surfaces together by a bonding process, e.g., glue, polymer, etc.

511 With clamping means:
This subclass is indented under subclass 508. Subject matter wherein sealing is accomplished using a device with opposite sides or parts that may be adjusted or brought closer together to hold or compress two elements, e.g., metal bolts, etc.

512 Means for distributing, storing, or preventing fluid movement:
This subclass is indented under subclass 400. Subject matter comprising a means for supplying, containing, or restricting movement of a fluid.

513 Having means for supplying reactant or electrolyte:
This subclass is indented under subclass 512. Subject matter comprising a means for allowing fluid reactant or electrolyte to enter or exit the cell.

514 Including flow field means (e.g., separator plate, etc.):
This subclass is indented under subclass 513. Subject matter comprising a component adjacent to the anode or cathode that distributes fuel, oxidant, and cooling fluids to the cell.

SEE OR SEARCH THIS CLASS, SUBCLASS:

457, for subject matter comprising a flow field means (e.g., plate, etc.) adjacent to the anode or cathode that distributes fuel, oxidant, or electrolyte to the cells in a fuel cell stack or module.

515 Having means for storing reactant (e.g., tank, reservoir, etc.):
This subclass is indented under subclass 512. Subject matter comprising a structure for containing a reactant.

516 Immobilizing structure or material (e.g., matrix, diaphragm, or membrane, etc.):
This subclass is indented under subclass 512. Subject matter comprising a means for preventing movement of a fluid.

517 Electrical current collector:
This subclass is indented under subclass 400. Subject matter comprising means for receiving electrical current from an electrode.

D. CHANGES TO THE DEFINITIONS

518 Bipolar separator (e.g., bipolar plate, etc.):
This subclass is indented under subclass 517. Subject matter comprising a component situated between cells which receives current from an anode in one cell and supplies current to a cathode in an adjacent cell.

SEE OR SEARCH THIS CLASS, SUBCLASS:

452, through 471, when a grouping of fuel cells or a fuel cell stack is positively recited in the claims, especially subclass 457 for a bipolar separator used as a flow field means and subclass 468 for bipolar separators placed between cells in a fuel cell stack.

519 Specified collector material:
This subclass is indented under subclass 517. Subject matter comprising a collector having a particular composition.

520 Composite material:
This subclass is indented under subclass 519. Subject matter wherein the collector is composed of two or more distinct, structurally complementary substances, e.g., metals, ceramics, glasses, polymers, etc.

521 Carbon-based material:
This subclass is indented under subclass 519. Subject matter comprising a collector formed of a material including carbon, e.g., graphite, etc.

522 Metal or alloy:
This subclass is indented under subclass 519. Subject matter comprising a collector formed of a metallic or metal alloy material.

523 Electrode structure or composition:
This subclass is indented under subclass 400. Subject matter comprising a specified electrode arrangement, feature, or material.

SEE OR SEARCH THIS CLASS, SUBCLASS:

484, through 489, for fuel cell electrodes used in solid electrolyte fuel cells.

SEE OR SEARCH CLASS:

427, Coating Processes, subclass 115 for a method of producing a fuel cell electrode by coating.

502, Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making, subclass 101 for method of making a catalytic electrode of general utility.

D. CHANGES TO THE DEFINITIONS

524 Including platinum catalyst:
This subclass is indented under subclass 523. Subject matter comprising an electrode having a platinum catalyst.

525 Including palladium catalyst:
This subclass is indented under subclass 523. Subject matter comprising an electrode having a palladium catalyst.

526 Including rhodium, ruthenium, or osmium catalyst:
This subclass is indented under subclass 523. Subject matter comprising an electrode having a rhodium, ruthenium, or osmium catalyst.

527 Including nickel, iron, or cobalt catalyst:
This subclass is indented under subclass 523. Subject matter comprising an electrode having a nickel, iron, or cobalt catalyst.

528 Including metal oxide catalyst:
This subclass is indented under subclass 523. Subject matter comprising an electrode having a metal oxide catalyst.

529 Having electrolyte matrix or barrier layer:
This subclass is indented under subclass 523. Subject matter comprising an electrode in combination with a matrix-type electrolyte or a layer of a barrier material.

530 Having organic component:
This subclass is indented under subclass 523. Subject matter comprising an electrode having a material containing carbon chemically bound to hydrogen.

531 Organic catalyst:
This subclass is indented under subclass 530. Subject matter wherein the organic component is a catalyst.

532 Having an inorganic matrix, substrate, or support:
This subclass is indented under subclass 523. Subject matter comprising an electrode having a matrix, substrate, or support composed of a material other than an organic material comprised of carbon and hydrogen.

533 Sintered particles:
This subclass is indented under subclass 532. Subject matter wherein the matrix, substrate, or support comprises fused inorganic particles.

534 Including gas diffusion material or layer:
This subclass is indented under subclass 532. Subject matter wherein the matrix, substrate, or support comprises a gas permeable substance or stratum.

D. CHANGES TO THE DEFINITIONS

535 Method of making a fuel cell, fuel cell stack, or subcombination thereof:
This subclass is indented under subclass 400. Subject matter comprising a process for fabricating a fuel cell, a stacked grouping of fuel cells, or subcombination thereof not specifically provided for elsewhere.

SEE OR SEARCH CLASS:

29, Metal Working, subclass 623.1 for process of making an electric battery cell.

427, Coating Processes, subclass 115 for a coating process which results in an element for use in a fuel cell.

502, Catalyst, Solid Sorbent, or Support Therefor: Product or Process of Making, subclass 101 for method of making a catalytic electrode of general utility.

900 FUEL CELL INCLUDING MEANS FOR POWER CONDITIONING (E.G., CONVERSION TO AC, ETC.):
This subclass is indented under the class definition. Subject matter comprising a fuel cell or fuel cell stack including means for output current modification.

901 FUEL CELL INCLUDING MEANS FOR UTILIZATION OF HEAT FOR UNRELATED APPLICATION (E.G., HEATING A BUILDING, ETC.):
This subclass is indented under the class definition. Subject matter comprising an apparatus for heating an object or structure outside of a fuel cell.

FOR 110 FUEL CELL, SUBCOMBINATION THEREOF OR METHODS OF OPERATING:
Foreign art collection including apparatus for producing an electrical current having an active material supplied to a cell from an external source, e.g., fuel cell, metal/air cell, etc., subcombination of the apparatus and the process of operating the same are also included.

FOR 111 Process of operating:
Foreign art collection including process of operating the apparatus.

FOR 112 Circulating or feeding electrolyte:
Foreign art collection including process having a step of circulating the electrolyte of feeding the same into or within the cell.

FOR 113 Active material in electrolyte:
Foreign art collection including process including the step of supplying active material which is dissolved in, introduced into, or carried by the electrolyte.

FOR 114 Fused or molten electrolyte:
Foreign art collection including process having the step of maintaining the electrolyte in a fused or molten stall during cell operation.

D. CHANGES TO THE DEFINITIONS

FOR 115 Generating, regenerating or recycling reactant:
Foreign art collection including process including the step of generating the active material before use in the cell, regenerating the same from by-products of the cell or recycling unused active material through the cell.

FOR 116 Plural cells having means to reduce ionic short circuit:
Foreign art collection including apparatus comprising a plurality of cells having a common electrolyte connection and means combined with the cell structure functioning to reduce or prevent ionic current from passing through the common electrolyte between the cells.

FOR 117 Having means for active material generation or regeneration:
Foreign art collection including apparatus having means to generate a material used in a cell, to generate a material in situ, or to regenerate a material from the cell by-products.

FOR 118 By heating or cooling:
Foreign art collection including apparatus having means providing a temperature differential.

FOR 119 By electrical current:
Foreign art collection including apparatus having means which allows electrical regeneration of the active material.

FOR 120 Automatic control means:
Foreign art collection including apparatus having automatic control means for regulating some operational feature of the cell.

FOR 121 Electrical output dependent:
Foreign art collection including apparatus wherein the control is responsive to the electrical output of the cell, either current or voltage.

FOR 122 Temperature dependent:
Foreign art collection including apparatus wherein the control is responsive to temperature.

FOR 123 Pressure dependent:
Foreign art collection including apparatus wherein the control is responsive to pressure.

FOR 124 Having heat exchange means:
Foreign art collection including apparatus having means to provide a temperature differential.

FOR 125 Active material electrode-type cell or subcombination thereof:
Foreign art collection including apparatus having an electrode containing an active material or the subcombination of said electrode.

D. CHANGES TO THE DEFINITIONS

FOR 126 Envelope cathode-type or subcombination thereof:
Foreign art collection including apparatus wherein the cathode surrounds or envelopes the anode and subcombinations thereof.

FOR 127 And chemically specified electrolyte material:
Foreign art collection including apparatus wherein the electrolyte material is chemically specified.

FOR 128 Solid electrolyte:
Foreign art collection including apparatus having a solid material which functions as an electrolyte.

FOR 129 Tubular:
Foreign art collection including apparatus wherein the electrolyte is tubular in form.

FOR 130 Plural disc or modules:
Foreign art collection including apparatus wherein the electrolyte is constructed of plural discs or modules.

FOR 131 Electrolyte composition chemically specified:
Foreign art collection including apparatus wherein the electrolyte material is chemically specified.

FOR 132 Housing member, seal, spacer or fluid distributing or directing means:
Foreign art collection including apparatus comprising separate elements having a utility in or are in combination with a fuel-type cell to provide housing, sealing, spacing of fluid distribution or fluid direction of the cell.

FOR 133 Having sealing feature:
Foreign art collection including apparatus having a sealing feature specifically set forth as a part of the combination.

FOR 134 Having bonded seal, e.g., welded, adhesive, molded in situ, etc.:
Foreign art collection wherein the sealing feature is composed of an integral bond between elements.

FOR 135 Having clamping means:
Foreign art collection including apparatus wherein the sealing feature is of the mechanical pressure type produced by a clamping means.

FOR 136 Having support or spacers with fluid distribution means:
Foreign art collection including apparatus wherein the housing member support or spacer is provided with means to allow the fluid reactants or electrolyte to enter or exit therefrom.

D. CHANGES TO THE DEFINITIONS

FOR 137 And fluid directing means:
Foreign art collection including apparatus wherein the support or spacer directs the fluid flow along the face of the electrode.

FOR 138 Catalytic electrode structure or composition:
Foreign art collection including apparatus having a catalytic electrode which is structurally or chemically specified.

FOR 139 Having electrolyte matrix or barrier layer:
Foreign art collection including apparatus having an electrolyte matrix or barrier layer positioned between or in contact with a catalytic electrode.

FOR 140 Having organic constituent as part of the electrode:
Foreign art collection including apparatus wherein the electrode has an organic component.

FOR 141 Organic catalyst:
Foreign art collection including apparatus wherein the organic component is part of or is the catalysis of the electrode.

FOR 142 Having an inorganic matrix, substrate or support:
Foreign art collection including apparatus having distinct inorganic materials functioning as the matrix, substrate or support in the electrode.

FOR 143 Of sintered particles:
Foreign art collection including apparatus composed of sintered particles.

FOR 144 Chemically specified electrolyte:
Foreign art collection including subject matter wherein the electrolyte composition is chemically defined.

D. CHANGES TO THE DEFINITIONS

CLASS 431 – COMBUSTION

Definitions Modified

Class Definition: Under SECTION IV - REFERENCES TO OTHER CLASSES, SEE OR SEARCH CLASS

Delete:

The reference to Class 429

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclass 441 for a fuel cell with a means for heating by combustion.

D. CHANGES TO THE DEFINITIONS

CLASS 502 – CATALYST, SOLID SORBENT, OR SUPPORT THEREFOR: PRODUCT OR PROCESS OF MAKING

Definitions Modified

Subclass 101: Under SEE OR SEARCH CLASS

Delete:

The reference to Class 429

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclasses 523 through 534 for fuel cell electrodes and subclass 535 for process of making a fuel cell or subcombination thereof including methods of making an electrode therefor.

Subclass 300: Under SEE OR SEARCH CLASS

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclasses 484 through 489 and 523-534 for fuel cell electrode structure or composition.

D. CHANGES TO THE DEFINITIONS

CLASS 521 – SYNTHETIC RESINS OR NATURAL RUBBERS

Definitions Modified

Subclass 25: After the (5) Note

Insert:

SEE OR SEARCH CLASS:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, subclasses 306 through 320 for organic component containing compositions used as solid electrolytes in current producing cells and subclasses 492-494 for polymeric materials used as solid electrolyte membranes in fuel cells.

D. CHANGES TO THE DEFINITIONS

CLASS 977 – NANOTECHNOLOGY

Definitions Modified

Subclass 948: UNDER SEE OR SEARCH CLASS

Delete:

The reference to Class 429

Insert:

429, Chemistry: Electrical Current Producing Apparatus, Product, and Process, for electrochemical batteries, particularly subclasses 400-535 for fuel cells.