

This Class 524 is considered to be an integral part of Class 520 (see the Class 520 schedule for the position of this Class in schedule hierarchy). This Class retains all pertinent definitions and class lines of Class 520

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| | | 9 | ...Cellular material derived from plant or animal source DNRM other than: cotton, farinaceous meals or flours, blood, diatomaceous earth, chalk, or other fossilized matter |
| | | 10 |Animal derived |
| | | 11 |Leather |
| | | 12 |Hair removed from pelt, e.g., wool, etc. |
| | | 13 | ...Wood or wood cellulose fiber or flour |
| | | 14 |At least one solid polymer or SICP derived from at least one nonethylenic reactant |
| | | 15 | ...Vegetable shell, hull, or cob ingredient, e.g., nut shells, pits, etc. |
| | | 16 |Bark or cork |
| 1 | ...Adding a NRM to a preformed solid polymer or preformed specified intermediate condensation product, composition thereof; or process of treating or composition thereof | 17 | ...Protein or biologically active polypeptide DNRM excluding wheat flour or natural cereals which may contain protein ingredient |
| 2 | ...Water settable inorganic compound as nonreactive material | 18 | ...With natural resin or carbohydrate DNRM |
| 3 |Solid polymer or specified intermediate condensation product derived from reactant-containing atom other than C, H, O, N, or halogen and which is devoid of a fused or bridged ring system | 19 | ...Hydrocarbon material DNRM which is nonsolid polymer, e.g., wax, etc. |
| 4 |Solid polymer or specified intermediate condensation product derived from at least one oxygen-containing reactant and which is devoid of a fused ring or bridged ring system | 20 | ...Two or more diverse proteins or polypeptides |
| 5 |Derived from carboxylic acid or derivative | 21 | ...Animal derived protein or polypeptide other than casein, e.g., blood, egg albumin, etc. |
| 6 |Derived from phenolic compound or aldehyde-containing reactant | 22 |Gelatin |
| 7 |Solid polymer derived from halogen-containing reactant | 23 |Solid polymer derived from ethylenic reactants only |
| 8 |Solid polymer derived from ethylenically unsaturated hydrocarbon only | 24 |Derived from carboxylic acid or derivative |
| | | 25 | ...Casein or derivative or soy protein |
| | | 26 |Solid polymer or SICP derived from carboxylic acid or derivative |
| | | 27 | ...Carbohydrate or derivative DNRM |
| | | 28 | ...Algin or derivative |
| | | 29 | ...Atom other than O, H, C, S, or Group IA metal |
| | | 30 |Atom other than N, O, H, C, S, or Group IA metal |
| | | 31 |Cellulose derivative |

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| 32 |Solid polymer derived from ethylenic reactants only | 61 |With nitrogen-containing additive DNRM |
| 33 |Solid polymer or SICP derived from at least one aldehyde or aldehyde derivative reactant | 62 | ...With hydrocarbon DNRM additive which is nonresinous and which is nonbituminous, or noncoal derived, e.g., cutback asphalt, kerosene, paraffin wax, etc. |
| 34 |Paper plant solid waste material or cotton, e.g., white liquor, etc. | 63 |Coke additive |
| 35 |Cellulose | 64 |Asphaltene or maltene additive |
| 36 |Sulfur-containing ester, e.g., viscose, xanthate, etc. | 65 |Coal derived additive, e.g., lignite, etc. |
| 37 |Carboxylic acid ester | 66 |Tar or pitch |
| 38 |Mixed carboxylate ester | 67 |Oil shale |
| 39 |Acetate | 68 |Two or more solid polymers, or graft or graft-type, or block or block-type solid copolymer |
| 40 |At least one solid polymer derived from ethylenic reactants only | 69 |Solid polymer derived from ethylenic reactants only at least one of which contains a carboxylic acid or derivative |
| 41 |Acetate | 70 |Solid polymer derived from ethylenic reactants only, at least one of which is propylene |
| 42 |Ether group containing, other than solely linking carbohydrate groups directly to each other | 71 |Solid polymer derived from ethylenic reactants only, at least one of which is a hydrocarbon other than ethylene |
| 43 |Hydroxyalkyl | 72 | ...Lignin or tannin or derivative DNRM |
| 44 |Hydroxyethyl | 73 |Reaction product of lignin or tannin or derivative with an oxygen or nitrogen-containing organic reactant |
| 45 |Carboxyalkyl or alkali metal salt thereof | 74 |Solid polymer or specified intermediate condensation product derived from a phenolic compound |
| 46 |Alkyl | 75 | ...Solid polymer contains halogen |
| 47 |Starch or derivative or farinaceous meal or flour | 76 |Solid polymer derived from ethylenically unsaturated hydrocarbon only |
| 48 |Dextrin or derivative | 77 | ...Natural resin or modified forms thereof other than rosin or its modified forms DNRM, e.g., shellac, dammar, etc. |
| 49 |Aldehyde reaction product | | |
| 50 |Ether group, other than solely linking of carbohydrate groups directly to each other | | |
| 51 |Ester | | |
| 52 |Solid polymer derived from ethylenic reactants only | | |
| 53 |At least one carboxylic acid ester | | |
| 54 |Dextran or derivative | | |
| 55 |Gum or derivative | | |
| 56 |Disaccharide or trisaccharide, e.g., sucrose, etc. | | |
| 57 |Ester | | |
| 58 |Monosaccharide, e.g., glucose, fructose, etc. | | |
| 59 | ...Coal, bituminous additive, extract, or derivative thereof; or oil shale; or fatty still residue DNRM | | |
| 60 |With water additive DNRM | | |

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| 78 | ...Residue of undetermined constitution derived from destructive distillation of a plant or animal source or plant or animal extract of undetermined constitution DNRM | 98 |Nitrogen ring having at least seven ring members |
| 79 | ...DNRM is derived from pyrolysis of previously formed solid synthetic polymer | 99 |Six-membered nitrogen ring, e.g., pyridine, etc. |
| 80 | ...DNRM which is other than silicon dioxide, glass, titanium dioxide, water, halohydrocarbon, hydrocarbon, or elemental carbon | 100 |Six-membered nitrogen ring having two or more ring nitrogen atoms |
| 81 |Organic DNRM | 101 |Three oxygen atoms are directly bonded to three nuclear carbon atoms of the nitrogen ring, e.g., (iso) cyanurate, etc. |
| 82 |Sulfur atom as part of a hetero ring DNRM | 102 |Two or more nitrogen rings |
| 83 |Hetero ring contains sulfur and at least one diverse hetero atom | 103 |Nonhetero nitrogen |
| 84 |Five-membered sulfur ring | 104 |Five-membered nitrogen ring |
| 85 |Three-membered sulfur ring | 105 |Two or more nitrogen rings |
| 86 |Nitrogen atom as part of a hetero ring DNRM | 106 |Five-membered nitrogen ring having two or more ring nitrogen atoms |
| 87 |Nitrogen ring directly fused or bridged to a ring system | 107 |At least one chalcogen atom as part of a hetero ring (chalcogen=O, Se, Te) DNRM |
| 88 |Tetrabenzoporphyrazine nucleus containing, e.g., phthalocyanine, etc. | 108 |Two or more chalcogen atoms in the same hetero ring |
| 89 |Nitrogen ring is part of a ring system having three or more rings fused or bridged together | 109 |Two or more chalcogen rings |
| 90 |Nitrogen ring is part of a ring system having five or more rings fused or bridged together | 110 |Six-membered chalcogen ring |
| 91 |Three or more nitrogen atoms in the fused or bridged ring system | 111 |Five-membered chalcogen ring |
| 92 |Two nitrogen atoms in the fused or bridged ring system | 112 |Cyclic polycarboxylic acid anhydride |
| 93 |1,3-diazole | 113 |Tetrahydrofuran per se |
| 94 |Five-membered nitrogen containing ring | 114 |Three-membered chalcogen ring |
| 95 |At least one diverse hetero atom in same ring | 115 |Phosphorus organic compound DNRM |
| 96 |Six-membered nitrogen ring having at least one diverse hetero atom, e.g., morpholine, etc. | 116 |Phosphorus is part of a covalent ring |
| 97 |Two or more nitrogen rings | 117 |Oxygen ring atom |
| | | 118 |Halogen |
| | | 119 |Two or more phosphorus rings |
| | | 120 |Spiro ring |
| | | 121 |Two or more phosphorus atoms directly or indirectly bonded together by only covalent bonds |
| | | 122 |Phosphorus double bonded to an atom other than C or O |
| | | 123 |Phosphorus bonded directly to three chalcogen atoms and having only one P-C linkage, e.g., phosphonate, etc. |
| | | 124 |Nitrogen |
| | | 125 |Aryl group |

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| 126 |Phosphorus bonded directly to only two chalcogen atoms and having at least one P-C linkage, e.g., phosphinate, phosphonite, etc. | 153 |Triphenyl phosphite per se |
| 127 |Phosphorus bonded directly to four chalcogen atoms, e.g., phosphate, etc. | 154 |Phosphorus directly bonded to carbon atoms only |
| 128 |Phosphorus bonded directly to three chalcogen atoms only, e.g., phosphite, etc. | 155 |Organic compound having a sulfur bonded directly to oxygen DNRM |
| 129 |Phosphorus directly bonded to at least one chalcogen and only H or C, e.g., phosphine oxide, etc. | 156 |Sulfur bonded directly to four oxygen atoms |
| 130 |Phosphorus bonded to three chalcogen atoms and having only one P-C linkage | 157 |Sulfur bonded directly to three oxygen atoms |
| 131 |Chalcogen other than directly bonded to P | 158 |Aryl group |
| 132 |Aryl group | 159 |Nitrogen |
| 133 |Phosphorus bonded to only two chalcogen atoms and having at least one P-C linkage | 160 |Fused or bridged ring system |
| 134 |Sulfur | 161 |Metal |
| 135 |Aryl group | 162 |At least two separate aryl groups |
| 136 |Pentavalent phosphorus atom directly bonded to at least one oxygen atom | 163 |Halogen |
| 137 |P directly bonded to S | 164 |Halogen |
| 138 |P directly bonded to two or more N | 165 |Halogen |
| 139 |Phosphorus directly bonded to at least one O and at least one H or C only | 166 |Metal |
| 140 |P directly bonded to oxygen only | 167 |Sulfur bonded directly to two oxygen atoms, e.g., sulfones, etc. |
| 141 |Aryl group | 168 |Sulfur bonded directly to nitrogen |
| 142 |Halogen | 169 |Aryl group which is not fused or bridged |
| 143 |Cresyl phosphate, e.g., di, etc. | 170 |Aryl group |
| 144 |Halogen | 171 |Oxygen atom other than as part of a sulfur bonded directly to two oxygen atoms |
| 145 |-C-O-P-O-C, or C-O-P-OH group, e.g., phosphate ester, lecithin, etc. | 172 |Atom other than C, H, S, O, or metal |
| 146 |Phosphorus directly bonded to sulfur | 173 |Sulfur directly bonded to oxygen and devoid of an aryl group, e.g., dimethyl sulfoxide, etc. |
| 147 |Phosphorus directly bonded to oxygen | 174 |Organic compound having at least one metal atom directly bonded to a carbon or hydrogen atom DNRM |
| 148 |Atom other than C, O, H, P, or Hal | 175 |Heavy metal directly bonded to carbon or hydrogen atom |
| 149 |Halogen | 176 |Transition metal (at. no. 21-29, 39-47, 57-79) |
| 150 |Five or more aryl groups | 177 |Group VA metal (Sb, Bi, As) |
| 151 |Two or more aryl groups | 178 |Tin atom |
| 152 |OH group | 179 |At least one sulfur atom |
| | | 180 |Sulfur directly bonded to tin |
| | | 181 |With additional tin compound DNRM |

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| 182 |At least two tin atoms | 213 |Atom other than C, N, H, or chalcogen; or contains nitrogen or chalcogen atom other than as part of a N(C=X) |
| 183 |Boron organic compound DNRM | 214 |Carbocyclic group |
| 184 |Atom other than B, O, H, or C | 215 |With water NRM |
| 185 |Atom is N | 216 |At least one solid polymer derived from ethylenic reactants only |
| 186 |Organo nitrogen compound other than unsubstituted ammonium salt as sole nitrogen atom DNRM | 217 |N atom other than as part of a N-C=X group |
| 187 |Contains rosin or derivative DNRM | 218 |C=X group other than as part of a N-C=X group |
| 188 |Silicon atom | 219 |(C=X)X group |
| 189 |Nitrogen to nitrogen bond | 220 |C-O-C group |
| 190 |N=N group | 221 |C-OH group |
| 191 |X=C-N group wherein X is a chalcogen | 222 |Aryl-OH group |
| 192 |Two or more N-N bonds | 223 |Two or more N-C=X groups or two or more C-OH groups |
| 193 |Aryl-OH | 224 |At least one solid polymer derived from ethylenic reactants only |
| 194 |Aryl-OH | 225 |Atom other than N, C, H, or oxygen |
| 195 |N=C=N or N=C-N- group, e.g., carbodiimide , isourea, etc. | 226 |Carbocyclic group |
| 196 |N=C=X group wherein X is a chalcogen, e.g., isocyanate, etc. | 227 |Two or more N-C=O groups |
| 197 |At least one solid polymer derived from ethylenic reactants only | 228 |At least one solid polymer derived from ethylenic reactants only |
| 198 |N-(C=O)-O-, e.g., urethane, carbamate, etc. | 229 |At least one solid polymer derived from acyclic monoethylenic hydrocarbon reactant |
| 199 |Oxygen other than as part of a N-(C=O)-O- group | 230 |N-(C=O)alkyl wherein alkyl group contains eight or more carbon atoms |
| 200 |Atom other than N, H, C, or O | 231 |Two or more organo N-C=O compounds DNRM or with nonreactant organo nitrogen compound DNRM |
| 201 |N(C=X)X wherein X is a chalcogen, e.g., thiocarbamate, etc. | 232 |At least one solid polymer derived from ethylenic hydrocarbon reactants only |
| 202 |Metal or ammonium group | 233 |Dialkyl amides, e.g., dimethyl formamide, dimethyl acetamide, etc. |
| 203 |With chalcogen nonreactive organic compound | 234 |Two or more N-C nitrogen nonreactant materials or with an organo oxygen or nitrogen- containing nonreactant material |
| 204 |Heavy metal or aluminum | 235 |At least one solid polymer derived from nitrile- containing ethylenic reactant |
| 205 |Nitrile group | | |
| 206 |Nitrogen atom other than as part of a nitrile group | | |
| 207 |Atom other than C, H, or N | | |
| 208 |Atom other than C, H, or N | | |
| 209 |Two or more nitrile groups | | |
| 210 |N-C=X group wherein X is a chalcogen | | |
| 211 |N-(C=X)N, e.g., urea, etc. | | |
| 212 |Two or more -N-(C=X)N groups | | |

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| 236 |Trivalent or tetravalent nitrogen atom other than unsubstituted ammonium | 267 |Two or more Si atoms and at least one Si-C or Si-H group |
| 237 |Carbon bonded to three N atoms, -C=NH, or C=N-C group | 268 |Silicon containing SICP or solid polymer |
| 238 |(C=X)X group wherein X is chalcogen | 269 |Solid polymer derived from ethylenic reactants only |
| 239 |Two or more (C=X)X groups | 270 |Rosin or tall oil or modified forms thereof as DNRM, e.g., colophony, abietic acid, ester gum, etc. |
| 240 |Aryl group | 271 |Two or more solid polymers or at least one solid polymer and at least one specified intermediate condensation product |
| 241 |C=X group where X is chalcogen | 272 |Solid polymer derived from at least one ethylenic compound containing a carboxylic acid or derivative |
| 242 |Two or more C=X groups | 273 |Solid polymer contains halogen |
| 243 |C-O-C group | 274 |Solid polymer derived from ethylenically unsaturated hydrocarbon only |
| 244 |C-OH | 275 |Oxygen wax DNRM |
| 245 |Two or more C-OH groups | 276 |With water NRM |
| 246 |Aryl group | 277 |Carnauba wax, beeswax, montan wax, or oxidized microcrystalline wax or modified forms thereof |
| 247 |C-OH group | 278 |Solid polymer contains halogen |
| 248 |Aryl-OH group | 279 |Solid polymer contains nitrogen |
| 249 |Two or more nitrogen atoms or two or more C-OH groups | 280 |X(C=X)X wherein X is chalcogen DNRM, e.g., carbonate, etc. |
| 250 |Four or more C-OH groups | 281 |Aryl group |
| 251 |N, C, and H atoms only | 282 |C(C=X)X wherein at least one X is a chalcogen other than oxygen DNRM |
| 252 |Two or more nitrogen atoms | 283 |Oxygen atom which is not part of the -C(C=X)X group |
| 253 |With water NRM | 284 |Carboxylic acid or derivative and wherein the derivative is other than a metal salt DNRM |
| 254 |Aryl | 285 |Cycloaliphatic group or bridged or fused ring system, e.g., camphoric acid, etc. |
| 255 |Two or more separate aryl ring systems | 286 |Naphthenic acid or derivative |
| 256 |At least one aryl ring which is part of a fused or bridged ring system | 287 |Aryl group |
| 257 |Aryl | 288 |Atom other than C, H, or O |
| 258 |Two or more separate aryl ring systems | 289 |Sulfur |
| 259 |Nitrogen as part of a nitro group | | |
| 260 |Nitro compound has an atom other than C, H, N, or O or has an oxygen or nitrogen atom other than as part of a nitro group | | |
| 261 |Organic silicon compound having at least one oxygen atom DNRM | | |
| 262 |Atom other than Si, O, C, or H | | |
| 263 |Halogen | | |
| 264 |Ethylenic group | | |
| 265 |Oxygen atom other than as Si-O-Si and at least one Si-C or Si-H group | | |
| 266 |Silicon containing SICP or solid polymer | | |

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| 290 |Oxygen atom other than as part of a carboxylic acid or ester group | 310 |OH group other than as part of a COOH group, e.g., castor oil, etc. |
| 291 |OH group other than as part of a COOH group, e.g., salicylic acid, etc. | 311 |Three or more carboxylic acid ester groups |
| 292 |Carbonyl of a carboxylic acid or ester group directly attached to an aryl group, e.g., dipropylene glycol dibenzoate, etc. | 312 |Derived from glycerol |
| 293 |Carboxylic acid or ester groups each directly attached to separate aryl groups through the carbonyl of the carboxylic acid or ester group | 313 |Fatty acid triglyceride, e.g., drying oil, etc. |
| 294 |Two or more carboxylic acids or ester groups each directly attached to a nuclear carbon of the same aryl group through the carbonyl of the carboxylic acid or ester group | 314 |Ester derived from dicarboxylic acid |
| 295 |A single aryl group | 315 |Carboxylic acid ester |
| 296 |Only two carboxylic acid or ester groups directly attached to an aryl group, e.g., phthalic acid, etc. | 316 |Atom other than C, H, or O |
| 297 |Dioctyl or dibutyl ester, e.g., di-(2-ethylhexyl) phthalate, etc. | 317 |Oxygen atom other than as part of a carboxylic acid group, e.g., glycolic ester, etc. |
| 298 |Three or more carboxylic acid or ester groups | 318 |Acyl group of the carboxylic acid has at least fifteen carbon atoms, e.g., butyl stearate, etc. |
| 299 |Two or more aryl groups | 319 |Halogen |
| 300 |Two or more carbon atoms | 320 |Oxygen atom other than as part of a COOH or derivative group |
| 301 |Metal | 321 |Two or more carboxylic acid or derivative groups |
| 302 |Sulfur, e.g., factice, etc. | 322 |Acyl group of the carboxylic acid or derivative has at least fifteen carbon atoms, e.g., stearic acid, etc. |
| 303 |Only two carboxylic acid or ester groups, e.g., distearyl thiodipropionate, etc. | 323 |Aryl-OH or salt or aryl-O-metal bond DNRM |
| 304 |With a nonreactive material | 324 |Fused or bridged ring system |
| 305 |Nonreactive material contains atom other than C, H, or O | 325 |Fused or bridged ring system having at least three rings |
| 306 |Ester having at least two carboxylic acid ester groups | 326 |Cycloaliphatic group |
| 307 |Atom other than C, H, or O | 327 |Metal |
| 308 |Oxygen atom other than as part of a carboxylic acid ester group | 328 |Group VIII metal (i.e., Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt) |
| 309 |C=O group other than as part of COO group | 329 |Group IVA metal (i.e., Ge, Sn, Pb) |
| | | 330 |Atom other than C, H, O, or halogen |
| | | 331 |Two or more sulfur atoms |
| | | 332 |S-S linkage |
| | | 333 |Two or more separate aryl-OH groups |
| | | 334 |Oxygen other than as part of an aryl-OH group |

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| 335 |C=O group | 360 |Carbocyclic ring wherein one of the nuclear carbons thereof is double bonded directly to an oxygen atom so as to form a C=O group therewith, e.g., cyclohexanone, etc. |
| 336 |A single C=O group | 361 |Only C, H, and oxygen atoms |
| 337 |Aryl group having two or more OH groups directly attached to nuclear carbons thereof | 362 |Ten or more carbon atoms |
| 338 |Two or more aryl-OH groups | 363 |Two or more C=O DNRM compounds |
| 339 |C-O-C linkage | 364 |With water, hydrocarbon, halohydrocarbon, or organic oxygen containing nonreactive material |
| 340 |Aryl compound having only one aryl ring and having one or more OH groups directly attached to nuclear carbons of the aryl | 365 |Solid polymer derived from ethylenic reactants only |
| 341 |Halogen | 366 |C-O-C compound DNRM |
| 342 |Two or more separate aryl-OH groups | 367 |Fused or bridged ring system or a cycloaliphatic group |
| 343 |Only two aryl-OH groups | 368 |Atom other than C, H, O, or halogen |
| 344 |Aryl group other than as part of an aryl-OH | 369 |Aryl group other than as part of a phenoxy group |
| 345 |Polyhydric aryl-OH compound | 370 |Aryl-O-aryl |
| 346 |1,3-dihydroxy, e.g., resorcinol, etc. | 371 |Halogen |
| 347 |1,4-dihydroxy, e.g., hydroquinone, etc. | 372 |Two or more phenoxy groups |
| 348 |Two or more aryl-OH DNRM compounds | 373 |Halogen |
| 349 |Three or more substituents on the aryl-OH compound | 374 |At least two diverse halogen atoms |
| 350 |With other nonreactive material | 375 |Phenoxy group |
| 351 |Two substituents on the aryl-OH compound | 376 |OH group, e.g., Cellosolve, etc. |
| 352 |A single substituent on the aryl-OH compound | 377 |Two or more OH groups |
| 353 |With nonreactive organic material | 378 |Only C, H, and O atoms |
| 354 |Aldehyde DNRM, i.e., C-(C=O)H | 379 |Carbon atom single bonded to an oxygen atom and wherein the carbon atom is not double bonded to a chalcogen atom DNRM, e.g., alcohols, etc. |
| 355 |Aryl | 380 |Halogen or ethylenic unsaturation |
| 356 |Ketone or ketene DNRM, i.e., C(C=O)C or C=C=O | 381 |Non C-OH oxygen atom, or element other than C, O, or H, e.g., tartaric acid metal salt, etc. |
| 357 |Two or more C(C=O)C groups | 382 |Heavy metal |
| 358 |Carbocyclic ring wherein at least two of the nuclear carbons thereof are double bonded directly to oxygens atom so as to form two or more C=O groups therewith, e.g., quinone, etc. | 383 |Carbocyclic ring |
| 359 |Carbocyclic ring, e.g., benzophenone, etc. | 384 |Aryl group |
| | | 385 |Only a single -C-OH group and at least six carbon atoms |
| | | 386 |At least two -OH groups |
| | | 387 |At least four -OH groups, e.g., pentaerythritol, etc. |

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| 388 |At least one solid polymer derived from ethylenic reactants only | 411 |With halogenated nonreactant material |
| 389 |Two or more compounds containing -OH groups, or with water NRM | 412 |Halogen atom other than Cl |
| 390 |With hydrocarbon or halogenated hydrocarbon NRM | 413 |Transition metal other than Group VIII DNRM (i.e., Sc, Ti, Mn, Cu, Y, Zr, Tc, Hf, Re) |
| 391 |Solid polymer or SICP derived from at least one nonethylenic reactant | 414 |Phosphorus atom DNRM |
| 392 |Organic chalcogen other than oxygen as DNRM | 415 |Atom other than P, O, H, or a metal |
| 393 |Atom other than S, C, H, or a metal | 416 |Ammonium phosphate |
| 394 |Oxygen atom or metal atom DNRM, e.g., metal stearate, etc. | 417 |Phosphorus atom directly bonded to four oxygen atoms, e.g., phosphoric acid, etc. |
| 395 |Atom other than C, O, H, or a metal | 418 |Sulfur atom DNRM |
| 396 |Carbocyclic group, e.g., aryl, etc. | 419 |Two or more sulfur atoms; or at least one atom other than S, O, H, or a metal |
| 397 |Ethylenic group; or at least two (C=O)O groups bonded to each other directly or only by carbon atoms | 420 |Devoid of an oxygen atom, e.g., sulfide, etc. |
| 398 |Transition metal atom (atomic no. 21-29, 39-47, 57-79) | 421 |At least one hydrogen atom |
| 399 |Heavy metal or aluminum (atomic no. 13, 30-33, 48-51, 80-83) | 422 |Sulfuric acid |
| 400 |Group IIA metal (Be, Mg, Ca, Sr, Ba) | 423 |Sulfate group, e.g., calcium sulfate, etc. |
| 401 |Inorganic compound devoid of a silicon atom DNRM | 424 |Carbon atom DNRM |
| 402 |Chalcogen atom other than sulfur or oxygen DNRM | 425 |Calcium carbonate, e.g., limestone, marble, etc. |
| 403 |At least one element of the lanthanide series (atomic no.57-71) or contains a noble metal atom (i.e., Au, Ag, Hg, Pt, Pd, Ir, Rh, Ru, Os)DNRM | 426 |Solid polymer derived from at least one diene monomer |
| 404 |Boron atom DNRM | 427 |Solid polymer derived from unsaturated hydrocarbon monomer |
| 405 |Boron directly bonded to oxygen | 428 |Nitrogen atom DNRM |
| 406 |Group VIB metal atom DNRM (i.e., Cr, Mo, W) | 429 |Nitrogen directly bonded to an oxygen atom, e.g., nitric acid, etc. |
| 407 |Chromium | 430 |A single type of metal atom and only oxygen atoms DNRM, e.g., metal oxide, etc. |
| 408 |Group V metal atom DNRM (i.e., V, Nb, Ta, As, Bi, Sb) | 431 |Transition metal atom (i.e., Fe,Co,Ni) |
| 409 |Antimony | 432 |Group IIB metal atom (i.e., Zn or Cd) |
| 410 |Atom other than Sb and oxygen | 433 |Group IIA metal atom (i.e., Be, Mg, Ca, Sr, Ba) |
| | | 434 |Heavy metal atom DNRM |
| | | 435 |Transition metal atom (i.e., Fe, Co, Ni) |
| | | 436 |Group IIA metal DNRM (i.e., Be, Mg, Ca, Sr, Ba) |
| | | 437 |Aluminum DNRM |
| | | 438 |Nonmetal compound DNRM |
| | | 439 |Elemental metal DNRM |
| | | 440 |Transition metal atom DNRM |
| | | 441 |Aluminum DNRM |

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| 442 |Soil or inorganic silicon DNRM (other than silicon dioxide, glass, quartz, novaculite, or silicon dioxide type) | 464 | ...Mixing with chlorine- or bromine-containing organic compound hydrocarbon mixture or composition or product thereof DNRM |
| 443 |Atom other than Si, O, H, Al, Fe, or a Group IA or IIA metal atom DNRM, e.g., slag, mineral wool, etc. | 465 | ...Mixing with two or more chlorine- or bromine- containing organic compounds; or with a chlorine- or bromine-containing organic compound other than carbon tetrachloride, chloroform, or methylene chloride, and having numerical limitations other than amount, e.g., included herein, are m.p., b.p., m.w., structure, etc., or composition or product thereof, DNRM |
| 444 |Aluminum atom DNRM | 466 | ...Two or more chlorine-or bromine-containing organic compounds |
| 445 |Clay, e.g., fullers earth, fire clay, etc. | 467 | ...Chlorine or bromine organic compound containing a bridged, fused, or cycloaliphatic ring |
| 446 |With water NRM | 468 | ...Chlorine or bromine organic compound containing ethylenic unsaturation |
| 447 |Kaolin or bentonite | 469 | ...Bromine-containing organic compound |
| 448 |Diatomite or diatomaceous earth, e.g., kieselguhr, infusorial earth, etc. | 470 | ...Chlorine-containing aromatic compound |
| 449 |Mica | 471 |Aromatic compound containing two or more aromatic rings |
| 450 |Metal atom other than aluminum, e.g., zeolites, etc. | 472 | ...Chlorine-containing wax |
| 451 |Talc (soapstone) DNRM | 473 | ...Organic compound containing two or more chlorine atoms |
| 452 |Asbestos DNRM | 474 | ...Mixing two or more hydrocarbons; or a hydrocarbon other than benzene, toluene, or xylene per se and having numerical limitations other than amount, e.g., included herein are m.p., b.p., viscosity, structure, m.w., etc. or composition or product thereof, DNRM |
| 453 |Aldehyde-nitrogen SICP or solid polymer thereof | 475 |With water NRM |
| 454 |SICP or solid polymer thereof | 476 |Two or more hydrocarbons |
| 455 |Halogen containing polymer | 477 |At least two solid hydrocarbons |
| 456 |Group IIA metal atom DNRM | 478 |At least one microcrystalline wax |
| 457 | ...Polymerizing an ethylenic monomer in the presence of a preformed SICP or solid polymer and in the presence of a nonreactive material so as to form an aqueous dispersion, latex, suspension, or emulsion therewith; or product thereof | 479 |Mixture contains three or more waxes |
| 458 | ...Polymerizing in the presence of water and in the presence of a solid polymer derived from ethylenic reactants only | | |
| 459 |Solid polymer utilized contains vinyl alcohol units | | |
| 460 |Solid polymer utilized is derived from an unsaturated carboxylic acid or salt | | |
| 461 | ...Polymerizing in the presence of a solid polymer derived from ethylenic reactants only | | |
| 462 | ..Mixing with fluorine- or iodine-containing organic compound or composition; or product thereof DNRM | | |
| 463 |Contains two or more fluorine or iodine organic compounds | | |

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| 480 |Mixture contains microcrystalline wax having specified melting point | 498 | ...Solid polymer or solid SICP derived from or reacted with protein or biologically active polypeptide or product thereof |
| 481 |Unsaturated hydrocarbon | 499 | ...Solid polymer derived from monomer from unsaturated petroleum hydrocarbon fraction or product thereof |
| 482 |Unsaturated hydrocarbon contains a bridged or fused ring | 500 | ...Containing two or more solid polymers; solid polymer or SICP and a SICP, SPFI, or an ethylenic reactant or product thereof |
| 483 |Unsaturated hydrocarbon contains plural unsaturation | 501 | ...Producing an aqueous system by mixing two or more aqueous emulsions, suspensions, dispersions, or solutions, or any of the above in admixture with one another and wherein each individually contains a solid polymer or SICP |
| 484 |Aromatic hydrocarbon | 502 | ...At least one solid polymer derived from ethylenic reactants only |
| 485 |Aromatic hydrocarbon contains a bridged or fused ring | 503 |Polyvinyl alcohol or modified form thereof |
| 486 |Aromatic hydrocarbon contains two or more aromatic rings | 504 |Solid graft or solid graft-type copolymer with other solid polymer, SICP, or SPFI |
| 487 |Hydrocarbon wax | 505 |Solid block or solid block-type copolymer with other solid polymer, SICP or SPFI |
| 488 |Microcrystalline wax | 506 |With solid polymer derived from at least one Si-H or Si-C reactant wherein at least one of the reactants forming the solid polymer is saturated; or with SPFI or SICP derived from a Si-H or Si-C reactant wherein at least one of the necessary reactants is saturated |
| 489 |Wax having melting point above 120 deg. F (49 deg. C) | 507 |With solid polymer derived from at least one -N=C=X (X is chalcogen) reactant wherein at least one of the reactants forming the solid polymer is saturated; or with SPFI or SICP derived from a -N=C=X reactant wherein at least one of the necessary reactants is saturated |
| 490 |Hydrocarbon having a specified name, molecular weight or chain length | | |
| 491 |Hydrocarbon having a specified viscosity | | |
| 492 | ...Mixing inorganic silicon-containing material having color or numerical limitations other than amount, e.g., included herein are m.p., chemical composition, particle size, surface area, etc., or composition or product thereof, DNRM | | |
| 493 |Inorganic silicon-containing material having specified dimensions | | |
| 494 |Material contains glass | | |
| 495 | ..Mixing with carbon, e.g., graphite, etc., having numerical limitations, other than amount, e.g., included herein are particle size, surface area, etc., or composition or product thereof, DNRM | | |
| 496 |Carbon particle having specified dimension | | |
| 497 | ...Mixing with titanium dioxide material having numerical limitations other than amount, e.g., included herein are particle size, etc., composition or product thereof, DNRM | | |

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| 508 |With solid polymer derived from at least one reactant wherein at least one of the reactants forming the solid polymer is a phenol or inorganic phenolate; or with SPFI or SICP derived from phenol or inorganic phenolate wherein at least one of the necessary reactants is saturated | 521 |Solid polymer derived from a monomer containing an atom other than C, O, H, or chlorine |
| 509 |With aldehyde or aldehyde-type reactant | 522 |Solid polymer derived from carboxylic acid-containing monomer |
| 510 |Water DNRM containing | 523 |Solid polymer derived from carboxylic acid ester monomer |
| 511 |Ethylenic polymer derived from at least one reactant containing two or more ethylenic groups | 524 |Ester derived from an unsaturated alcohol and a saturated acid, e.g., vinyl acetate, etc. |
| 512 |With solid polymer derived from at least one reactant wherein at least one of the reactants forming the solid polymer is an aldehyde or derivative; or with SPFI or SICP derived from an aldehyde or derivative wherein at least one of the necessary reactants is saturated | 525 |Solid polymer derived from monomer containing two or more ethylenic groups |
| 513 |With polycarboxylic acid or derivative and a polyol at least one of which is saturated or with solid polymer thereof | 526 |Two or more polymers derived from reactant containing two or more ethylenic groups |
| 514 |With polycarboxylic acid or derivative and a polyamine, or with nitrogen containing carboxylic acid or derivative reactant at least one of which is saturated or with solid polymer thereof | 527 |Solid polymer derived from chlorine-containing reactant |
| 515 |Two or more solid polymers derived from ethylenic reactants only | 528 |Solid polymer derived from acyclic hydrocarbon |
| 516 |Solid polymer derived from nitrogen heterocycle monomer | 529 |Solid polymer derived from ethylenic monomers only admixed with ethylenic monomer |
| 517 |Solid polymer from oxygen heterocycle monomer | 530 |Ethylenic monomer contains a nitrogen heterocycle |
| 518 |Solid polymer derived from fused or bridged ring monomer | 531 |Ethylenic monomer contains a chalcogen heterocycle |
| 519 |Solid polymer derived from halogen-containing monomer other than vinyl or vinylidene chloride | 532 |Ethylenic monomer contains a fused or bridged ring system |
| 520 |Fluorine-containing monomer | 533 |Ethylenic monomer contains at least one carboxylic acid ester group |
| | | 534 |Ethylenic monomer contains at least two ethylenic groups |
| | | 535 |Ethylenic monomer contains at least one atom which is other than C, H, or O |
| | | 536 |Ethylenic monomer is an acyclic hydrocarbon |
| | | 537 |Solid polymer or SICP derived from an -O-(C=O)O- or hal-(C=O)-O- containing reactant |
| | | 538 |Solid polymer or SICP derived from at least one nitrogen-containing carboxylic acid or derivative reactant or from a carboxylic acid or derivative and a polyamine |
| | | 539 |Solid polymer or SICP derived from at least one carboxylic acid or derivative reactant |

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| 540 |Solid polymer or SICP derived from at least one phenol or inorganic phenolate reactant | 560 |From ester derived from at least one unsaturated carboxylic acid and a saturated alcohol, e.g., methyl methacrylate, etc. |
| 541 |Aldehyde or derivative reactant | 561 |Interpolymerized with diverse carboxylic acid ester |
| 542 |Solid polymer or SICP derived from at least one aldehyde or derivative or ketone reactant | 562 |Interpolymerized with hydrocarbon containing a single ethylenic group |
| 543 | ...Polymer derived from ethylenic reactants only | 563 |From ester derived from ethylenically unsaturated alcohol and saturated carboxylic acid, e.g., vinyl acetate, etc. |
| 544 |From fluorine-containing monomer | 564 |Interpolymerized with diverse carboxylic acid ester or with carboxylic acid reactant |
| 545 |Fluorine-containing monomer contains F and C only or only F, C, and H | 565 | ...From acrylonitrile or methacrylonitrile monomer |
| 546 |Four or more fluorine atoms | 566 |Inorganic nonreactive material |
| 547 |From reactant-containing atom other than O, N, C, halogen, or hydrogen | 567 | ...From halogen-containing monomer |
| 548 |From heterocyclic monomer | 568 |Vinylidene chloride |
| 549 |Five-membered oxygen ring, e.g., coumarone-indene, etc. | 569 |Plasticizer additive |
| 550 |From acetylenic monomer | 570 | ...From hydrocarbon monomer |
| 551 |From halogen-containing monomer containing three or more carbon atoms and wherein at least one halogen atom is present in other than salt form | 571 |Conjugated diene hydrocarbon monomer |
| 552 |Diene | 572 |Adding nonreactive material to chemically modified solid polymer |
| 553 |From cycloaliphatic or fused or bridged ring monomer | 573 |Interpolymer of two or more diene monomers |
| 554 |Cycloaliphatic, fused, or bridged monomer contains at least two unsaturated groups | 574 |Interpolymer with at least one aliphatic hydrocarbon monomer, e.g., butyl rubber, etc. |
| 555 |From nitrogen-containing monomer other than acrylonitrile or methacrylonitrile | 575 |Interpolymer with at least one aromatic hydrocarbon monomer |
| 556 |From carboxylic acid or ester thereof monomer | 575.5 |Natural rubber |
| 557 |Polyvinyl alcohol or modified forms thereof | 576 |Adding nonreactive material to chemically modified solid polymer |
| 558 |Acid or ester contains an oxygen atom which is other than part of a free carboxyl group or carboxylic acid ester group | 577 |From aromatic hydrocarbon monomer |
| 559 |Ester contains two or more ester groups or at least one carboxylic ester group and at least one free acid group; or carboxylic acid contains two or more free carboxyl groups | 578 |Interpolymer with at least one aliphatic hydrocarbon monomer |
| | | 579 |From hydrocarbon containing four or more carbon atoms |

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| 580 |Adding nonreactive material to solid polymer and subsequently chemically modifying the polymer or product | 607 |Two or more carboxylic acids or derivatives, or two or more nitrogen containing compounds |
| 581 |Solid polymer derived from ethylene | 608 |Water DNRM containing |
| 582 |From propylene as sole reactant monomer | 609 | ...From sulfur-containing reactant |
| 583 |Organic NRM additive | 610 | ...From reactant-containing atom other than N, C, H, O, or halogen |
| 584 |Inorganic NRM additive other than water | 611 | ...From phenol reactant |
| 585 |From ethylene as sole reactant monomer | 612 | ...From at least one oxygen or nitrogen-containing reactant |
| 586 |Inorganic NRM additive | 650 | ..Inorganic water settable material containing |
| 587 |High density polymer | 700 | ..Preparation of intentional or desired composition by formation of a solid polymer (SP) or SICP in presence of a designated nonreactant material (DNRM) other than solely water, hydrocarbon, silicon dioxide, glass, titanium dioxide or elemental carbon, composition thereof; or process of treating or composition thereof |
| 588 | ...From silicon-containing reactant | 701 | ...Boron-containing DNRM |
| 589 | ...From -N=C=X reactant or blocked N=C=X reactant (X is chalcogen) | 702 | ...Cellular material derived from biological source as DNRM other than farinaceous flour or cotton or diatomaceous earth |
| 590 | ...With reactant containing at least one C-OH, (C=O)-OH or -C-O-C- group | 703 | ...Corncob, bark, or cork |
| 591 |Water DNRM | 704 | ...Protein or biologically active polypeptide as DNRM |
| 592 | ...From ketone or ketene reactant | 705 | ...Coal or bituminous material, extract or derivative thereof, oil shale, or fatty still residue thereof, as DNRM |
| 593 | ...From aldehyde or derivative reactant | 706 | ...P-containing DNRM |
| 594 | ...With phenol or inorganic phenolate | 707 | ...Nitrogen |
| 595 |Containing reactant having atom other than C, H, or O | 708 |Phosphorus bonded directly to nitrogen |
| 596 |Water DNRM | 709 | ...Tri organo phosphine or phosphonium compound |
| 597 | ...Nitrogen-containing reactant | 710 | ...Organic compound having phosphorus bonded directly to oxygen or sulfur |
| 598 |Water DNRM | 711 |Containing a metal atom DNRM |
| 599 | ...From carboxylic acid or derivative reactant | 712 |Containing halogen DNRM |
| 600 | ...Carboxylic acid contains three or more acid groups or derivative thereof | 713 | ...Containing phenol or carboxylic acid or derivative DNRM |
| 601 | ...From dicarboxylic acid or derivative and at least one polyol; or from a diester of a polycarboxylic acid as sole reactant | | |
| 602 |Nitrogen-containing reactant | | |
| 603 |Reactant contains atom other than C, H, or O | | |
| 604 |At least one polyol containing only two -C-OH groups reactant | | |
| 605 |Derived from terephthalic acid or derivative | | |
| 606 | ...Nitrogen-containing reactant | | |

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| 714 | ...N-containing organic compound excluding unsubstituted ammonium as sole nitrogen in DNRM | 739 |Plural separate aryl-OH or salt groups bonded through carbon or a chalcogen containing radical, e.g., bisphenol A, etc. |
| 715 | ...N=N linkage, e.g., azo dyes, etc. | 740 | ...Aryl-OH or salt compound having at least one chalcogen-containing substituent, e.g., hydroxy anisole, etc. |
| 716 | ...Carbohydrate or derivative, e.g., nitrocellulose, etc. | 741 | ...Aryl-OH or salt compound having two or more substituents |
| 717 | ...Heterocyclic structure other than per se N-alkyl pyrrolidone | 742 | ...Elemental or organic sulfur compound as DNRM |
| 718 |Hetero nitrogen | 743 | ...Sulfone, e.g., sulfolane, etc. |
| 719 |Containing hetero chalcogen DNRM | 744 | ...DMSO with additional oxygen or halogen compound DNRM |
| 720 |Plural hetero N, i.e., same or different ring | 745 | ...Sulfate, sulfonate ester, sulfonic acid, or salt thereof |
| 721 | ...Containing aryl-OH or salt thereof DNRM | 746 |Halogenated |
| 722 | ...Amine nitrogen directly bonded to aromatic ring | 747 |Containing ether or hydroxyl group DNRM |
| 723 | ...Sulfur, e.g., sulfonamides, etc. | 748 |Containing COOH or salt thereof or ester thereof DNRM |
| 724 | ...ROH or COOH, or salts thereof, e.g., alkanol amine or amino acid, etc. | 750 | ...Mercaptan, mercaptide, or thioether, e.g., aryl-SH, etc. |
| 725 | ...Nitrile | 751 | ...Heterocyclic chalcogen compound as DNRM |
| 726 | ...Formamide or N,N-dialkyl amide or N-alkyl pyrrolidone | 752 | ...With organic chalcogen compound, hydrocarbon, or halogenated hydrocarbon DNRM |
| 727 |With metal-containing material DNRM | 753 | ...Carboxylic acid ester linkage, e.g., oxyalkylated sorbitan ester, etc. |
| 728 | ...(C=O)N | 754 | ...Plural hetero oxygen |
| 729 | ...X(C=X)X wherein X is chalcogen DNRM, e.g., carbonate, etc. | 755 | ...Ether compound DNRM, e.g., aryl ether, dimethylether, etc. |
| 730 | ...Si-C, Si-H contains DNRM, metal-C or metal-H bond or organic compound containing Si | 757 | ...Mixture of ether compounds; or only two ether oxygens bonded to a carbon atom, e.g., formal, acetal, etc. |
| 731 | ...Diorgano siloxane contains units of -(R)Si(R)-O-* where * is subscript two or more | 758 | ...Halogenated |
| 732 | ...Carbohydrate or derivative as DNRM | 759 | ...Containing carboxylic acid or derivative DNRM |
| 733 | ...Cellulose or derivative, e.g., cotton, paper pulp, etc. | 760 |Carboxylic acid or derivative has two or more ether linkages |
| 734 | ...Starch or derivative, farinaceous flour or meal | 761 | ...Containing hydroxyl group DNRM |
| 735 | ...Lignin, tannin, or derivative as DNRM | 762 |Two or more ether linkages in the hydroxyl group bearing molecule |
| 736 | ...Aryl-OH or salt thereof as DNRM | | |
| 738 |Plural separate aryl-OH groups or polyhydric aryl-OH, or salts thereof: e.g., resorcinol, etc. | | |

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| 763 | ...Oxygen containing wax as DNRM, e.g., carnauba, montan, ceresin, bees wax, oxidized petroleum wax, etc. | 788 |Calcium, e.g., calcium carbonate, etc. |
| 764 | ...Natural resin or derivative as DNRM, e.g., rosin, shellac, etc., excluding tall oil per se | 789 | ...Elemental silicon, soil, or inorganic silicon compound as DNRM |
| 765 | ...Alcohol compound as DNRM, i.e., R-OH | 790 | ...With reactive coupling agent |
| 766 |Two or more alcohols | 791 | ...Alkali or alkali earth silicate |
| 767 |With water NRM | 792 | ...Halogenated hydrocarbon DNRM |
| 768 |With hydrocarbon or halogenated hydrocarbon NRM | 793 | ...Halogenated hydrocarbon contains ethylenic unsaturation |
| 769 |Chalcogen other than as R-OH | 794 |With water NRM |
| 770 | ...Ketone or aldehyde as DNRM | 795 |Fluorinated |
| 771 |With hydrocarbon or halogenated hydrocarbon NRM | 796 | ...Nitrogen, halogen, or compounds thereof DNRM |
| 772 |Carboxylic acid or derivative, e.g., acetoacetic acid or ester or salt thereof, etc. | 797 | ..Solid polymer or SICP derived from protein or biologically active polypeptide and ethylenic monomer or SPFI |
| 773 | ...Carboxylic acid or derivative not containing a heavy metal atom as DNRM, e.g., anhydride, acyl halide, ester or salt, etc. | 798 | ..Solid polymer or SICP derived from natural resin or natural resin derivative and ethylenic monomer or SPFI, e.g., shellac, rosin, etc. |
| 774 |Cycloaliphatic group, e.g., dimer acids containing thirty six carbon atoms, tall oil, etc. | 799 | ..Solid polymer or SICP derived from lignin or tannin and ethylenic monomer or SPFI |
| 775 |Aryl group | 800 | ..Preparation of intentional or desired composition by formation of solid polymer or SICP in the presence of water as a designated nonreactant material (DNRM), or products thereof |
| 776 |Solid polymer derived from ethylenic monomers only | 801 | ...Process of preparing water-in-oil emulsion or dispersion, or product thereof |
| 777 |Group IA, unsubstituted ammonium, or Group IIA salt | 802 | ...Aqueous carboxyl-bearing solid polymer or SICP composition chemically treated with aziridine, mono 1,2-epoxide, or cyclic sulfonium compound |
| 778 |Solid polymer or SICP derived from at least one nonethylenic monomer | 803 | ...Polyvinyl alcohol or partially hydrolyzed polyvinyl acetate or chemically modified forms thereof |
| 779 | ...Elemental metal or metal compound not containing silicon DNRM | 804 | ...Solid polymer derived from ethylenic monomers only |
| 780 |Heavy metal | 805 |Fluorine-containing monomer |
| 781 |Copper | 806 |Silicon-containing monomer |
| 783 |Group IV or Group IIB, i.e., Ge, Sn, Pb, Zr, Ti, Hf, Zn, Cd, Hg | 807 | ...Monomer-containing element other than C, H, O, N, S, Hal, or Group IA metal atom |
| 784 |Tin | | |
| 785 |Group VIII, i.e., Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt | | |
| 786 |Al | | |
| 787 | ...Inorganic metal compound having S, C, or N, e.g., KSCN, etc. | | |

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| 808 |Monomer contains nitrogen atom as part of a heterocyclic ring | 835 |Two or more halogenated hydrocarbon monomers |
| 809 |Two or more nitrogen atoms in a single ring | 836 | ...Hydrocarbon monomer only |
| 811 |Monomer contains chalcogen atom as part of heterocyclic ring | 837 | ...Solid polymer or SICP derived from Si-containing reactant |
| 812 |N-containing monomer other than: unsubstituted ammonium as sole nitrogen, acrylamide, methylol acrylamide, acrylonitrile and the corresponding methacryl compounds or mixtures thereof | 838 |N-containing reactant |
| 813 |Nitrogen-carbon-oxygen bond containing monomer, e.g., allyl isocyanate, etc. | 839 | ...Solid polymer or SICP derived from -N=C=X (X is chalcogen) containing reactant |
| 814 |N-monomer contains S | 840 |N=C=X reactant has ionic group attached thereto, e.g., carboxyl sulfonic, etc. |
| 815 |Quaternary nitrogen-containing monomer, e.g., tetramethyl ammonium, etc. | 841 | ...Solid polymer or SICP derived from a phenolic reactant |
| 816 |N-monomer contains carboxylic acid or salt thereof | 842 | ...With carbohydrate reactant, e.g., starch, cellulose, or sugar, etc. |
| 817 |S-containing monomer | 843 | ...Solid polymer or SICP derived from an aldehyde or aldehyde derivative reactant |
| 818 | ...Aldehyde or ketone containing monomer | 844 | ...With carbohydrate reactant, e.g., starch, cellulose, cork, etc. |
| 819 | ...Hydrocarbon monomer with carboxylic acid, salt, or nonnitrogen containing derivative monomer | 845 | ...Solid polymer derived from a reactant which is a carboxylic acid or derivative |
| 820 |With N monomer | 846 | ...Polymer of an ethylenic reactant with a saturated reactant |
| 821 |Hydrocarbon monomer contains at least two ethylenic groups | 847 | ..Carbon, titanium dioxide, glass, or silicon dioxide having specified crystalline form or numerical limitation other than amount, e.g., included herein are particle size, shape, etc., as DNRM |
| 822 |Two or more hydrocarbon monomers | 848 | ..Hydrocarbon material other than solely a fused ring, or cycloaliphatic hydrocarbon, benzene, toluene, or xylene or mixtures thereof; said material or mixture of materials having specified numerical limitations other than amount, e.g., included herein are m.p., b.p., viscosity, particle size, etc., as DNRM |
| 823 |Two or more monomers-containing carboxylic acid or derivative | 849 | ..Solid polymer from ethylenic monomer only, said polymer formed in the presence of a nonreactant material |
| 824 |Aromatic monomer | 850 | ...N-containing monomer |
| 825 |With halogenated hydrocarbon monomer | 851 | ...Halogen-containing monomer |
| 827 |N-containing monomer | | |
| 828 |With hydrocarbon monomer | | |
| 829 |Two or more N monomers | | |
| 831 |With unsaturated carboxylic acid or ester monomer | | |
| 832 |Monomer is carboxylic acid or derivative | | |
| 833 |Two or more carboxylic acids or derivatives | | |
| 834 | ...Halogenated hydrocarbon monomer | | |

- 913 .Contains nitrogen nonreactant material
- 914 FLOOR COVERING COMPOSITIONS
- 915 CARPET BACKING ADHESIVES
- 916 HYDROGEL COMPOSITIONS
- 917 OIL SPILL RECOVERY COMPOSITIONS
- 918 WOOD PATCHING COMPOSITION
- 919 METAL PATCHING COMPOSITION, E.G.,
BODY SOLDER, ETC.
- 920 COILABLE PIPE COMPOSITIONS
- 921 ELASTIC MEMORY OR HEAT SHRINKABLE
COMPOSITIONS
- 922 FLOCCULATING, CLARIFYING, OR
FINING COMPOSITIONS
- 923 TREATING OR PREPARING A
NONAQUEOUS DISPERSION OR
EMULSION OF A SOLID POLYMER OR
SPECIFIED INTERMEDIATE
CONDENSATION PRODUCT
- 924 TREATING OR PREPARING A
NONAQUEOUS SOLUTION OF A SOLID
POLYMER OR SPECIFIED
INTERMEDIATE CONDENSATION
PRODUCT
- 925 NATURAL RUBBER COMPOSITIONS
HAVING NONREACTIVE MATERIALS
(DNRM) OTHER THAN: CARBON,
SILICON DIOXIDE, GLASS
TITANIUM DIOXIDE, WATER,
HYDROCARBON, HALOHYDROCARBON
- 926 .With water as NRM, exemplified
- 927 ..Before 1930
- 928 .Before 1930, exemplified
- 929 .Natural rubber broadly
disclosed, nonclaimed

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