CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

C08 ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING-UP; COMPOSITIONS BASED THEREON (manufacture or treatment of artificial threads, fibres, bristles or ribbons D01)

C08F MACROMOLECULAR COMPOUNDS OBTAINED BY REACTIONS ONLY INVOLVING CARBON-TO-CARBON UNSATURATED BONDS

NOTES

1. In this subclass, boron or silicon are considered as metals.
2. In this subclass, the following expression is used with the meaning indicated:
   - "aliphatic radical" means an acyclic or a non-aromatic carbocyclic carbon skeleton which is considered to be terminated by every bond to:
     a. an element other than carbon;
     b. a carbon atom having a double bond to one atom other than carbon;
     c. an aromatic carbocyclic ring or a heterocyclic ring.

     Examples: Polymers of
     a. CH_2 =CH—O—CH_2—CH_2—NH—COO—CH_2-CH_2 —OH are classified in group C08F 16/28;
     b. CH_2=CH-C(=O)-CH=CH_2 are classified in group C08F 16/36
     c. para-$C_6H_4Cl(CH=CH_2)$ are classified in group C08F 12/18.
3. Therapeutic activity of compounds is further classified in subclass A61P.
4. In this subclass, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, a catalyst or a polymer is classified in the last appropriate place.
5. In this subclass:
   a. macromolecular compounds and their preparation are classified in the groups for the type of compound prepared. General processes for the preparation of macromolecular compounds according to more than one main group are classified in groups C08F 2/00-C08F 8/00 for the processes employed. Processes for the preparation of macromolecular compounds are also classified in the groups for the types of reactions employed, if of interest;
   b. subject matter relating to both homopolymers and copolymers is classified in groups C08F 10/00-C08F 38/00;
   c. subject matter limited to homopolymers is classified only in groups C08F 110/00-C08F 138/00;
   d. subject matter limited to copolymers is classified only in groups C08F 210/00-C08F 246/00;
   e. in groups C08F 210/00-C08F 238/00, in the absence of an indication to the contrary, a copolymer is classified according to the major monomeric component.
6. This subclass covers also compositions based on monomers which form macromolecular compounds classifiable in this subclass. In this subclass:
   a. if the monomers are defined, classification is made according to the polymer to be formed:
      - in groups C08F 10/00-C08F 246/00 if no preformed polymer is present;
      - in groups C08F 251/00-C08F 291/00 if a preformed polymer is present, considering the reaction to take place as a graft or cross-linking reaction;
   b. if the presence of compounding ingredients is of interest, classification is made in group C08F 2/44
   c. if the compounding ingredients are of interest per se , classification is also made in subclass C08K.
7. {In this subclass, combination sets [C-Sets] are used. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions}

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Processes; Catalysts

2/00 Processes of polymerisation

NOTE

Group C08F 2/00 and subgroups can be incomplete according to the following classification rules:
- if a process of polymerisation is specifically used for only one type of polymer, it is not classified in C08F 2/00;

C08F 2/00 (continued)

- in such a case, the classification symbol of C08F 2/00 providing for the process of polymerisation may be used in the form of Combination Set in the groups providing for the polymer, e.g. (C08F 36/04, C08F 2/14)
- this method of classification is applied only when a note after the group providing for the polymer explicitly indicates which symbols of C08F 2/00 may be used for forming the Combination Set.

2/001 . {Multistage polymerisation processes characterised by a change in reactor conditions without deactivating the intermediate polymer (C08F 295/00, C08F 297/00 take precedence)}

2/002 . {Scale prevention in a polymerisation reactor or its auxiliary parts}

2/004 . . {by a prior coating on the reactor walls}

2/005 . . {by addition of a scale inhibitor to the polymerisation medium}

2/007 . . {Scale prevention in the auxiliary parts}

2/008 . {cleaning reaction vessels using chemicals (mechanical methods B08B 9/08)}

2/01 . characterised by special features of the polymerisation apparatus used

2/02 . Polymerisation in bulk

2/04 . Polymerisation in solution (C08F 2/32 takes precedence)

2/06 . . Organic solvent

2/08 . . . with the aid of dispersing agents for the polymer

2/10 . . Aqueous solvent

2/12 . Polymerisation in non-solvents (C08F 2/32 takes precedence)

2/14 . . Organic medium

2/16 . . Aqueous medium

2/18 . . . Suspension polymerisation

2/20 . . . with the aid of macromolecular dispersing agents

2/22 . . . Emulsion polymerisation

2/24 . . . . with the aid of emulsifying agents

2/26 . . . . . anionic

2/28 . . . . . cationic

2/30 . . . . . non-ionic

2/32 . Polymerisation in water-in-oil emulsions

2/34 . Polymerisation in gaseous state

2/36 . Polymerisation in solid state

2/38 . Polymerisation using regulators, e.g. chain terminating agents {, e.g. telomerisation}

2/40 . . using retarding agents

2/42 . . using short-stopping agents

2/44 . Polymerisation in the presence of compounding ingredients, e.g. plasticisers, dyestuffs, fillers

2/46 . Polymerisation initiated by wave energy or particle radiation

2/48 . . by ultra-violet or visible light

2/50 . . . with sensitising agents

2/52 . . by electric discharge, e.g. voltolisation

2/54 . . by X-rays or electrons

2/56 . . by ultrasonic vibrations

2/58 . Polymerisation initiated by direct application of electric current (electrolytic processes, e.g. electrophoresis C25)

2/60 . Polymerisation by the diene synthesis

4/00 Polymerisation catalysts (catalysts in general B01J)

NOTES

1. Group C08F 4/00 and subgroups can be incomplete according to the following classification rules:
   - if a catalyst is specifically used for only one type of polymer, it is not classified in C08F 4/00;
   - in such a case, the classification symbol of C08F 4/00 providing for the catalyst may be used as a symbol for a C-Set in the groups providing for the polymer, e.g. (C08F 12/04, C08F 4/62)
   - this method of classification is applied only when a note after the group providing for the polymer explicitly indicates which symbols of C08F 4/00 may be used for forming the C-set.
2. When classifying in group C08F 4/00, the type of catalyst can be further indexed by using indexing codes chosen from C08F 2410/00, C08F 2420/00 or their subgroups

4/005 . {Friedel-Crafts catalysts in general}

NOTE

Where a carrier is considered of particular interest a further classification may be made in group C08F 4/02.

4/02 . Carriers therefor

4/022 . . {Magnesium halide as support anhydrous or hydrated or complexed by means of a Lewis base for Ziegler-type catalysts}

4/025 . . {Metal oxides}

4/027 . . {Polymers}

4/04 . Azo-compounds

4/06 . Metallic compounds other than hydrides and other than metallo-organic compounds; Boron halide or aluminium halide complexes with organic compounds containing oxygen

4/08 . . of alkali metals

4/083 . . . {an alkali metal bound to oxygen}

4/086 . . . {an alkali metal bound to nitrogen, e.g. $LiN(C_2H_5)_2$}

4/10 . . of alkaline earth metals, zinc, cadmium, mercury, copper or silver

4/12 . . of boron, aluminium, gallium, indium, thallium or rare earths

4/14 . . . Boron halides or aluminium halides; Complexes thereof with organic compounds containing oxygen

4/16 . . of silicon, germanium, tin, lead, titanium, zirconium or hafnium

4/18 . . . Oxides

4/20 . . of antimony, bismuth, vanadium, niobium or tantalum

4/22 . . of chromium, molybdenum or tungsten

4/24 . . . Oxides

4/26 . . of manganese, iron group metals or platinum group metals

4/28 . Oxygen or compounds releasing free oxygen (redox systems C08F 4/40)

4/30 . . Inorganic compounds

4/32 . . Organic compounds
4/34 . . . Per-compounds with one peroxy-radical
4/36 . . . Per-compounds with more than one peroxy radical
4/38 . . . Mixtures of peroxy-compounds
4/40 . Redox systems
4/42 . Metals; Metal hydrides; Metallo-organic compounds; Use thereof as catalyst precursors
4/44 . . selected from light metals, zinc, cadmium, mercury, copper, silver, gold, boron, gallium, indium, thallium, rare earths or actinides
4/46 . . . selected from alkali metals
4/461 . . . . {Catalysts containing at least two different components covered by the same or by different subgroups of group C08F 4/46, e.g. butyllithium + propylrubidium}
4/463 . . . . {selected from sodium or potassium (C08F 4/461 takes precedence)}
4/465 . . . . . {Metalic sodium or potassium}
4/466 . . . . . {an alkali metal bound to a cyclic carbon}
4/468 . . . . . {at least two metal atoms in the same molecule}
4/48 . . . . selected from lithium, rubidium, caesium or francium {(C08F 4/461 takes precedence)}
4/482 . . . . . {Metallic lithium, rubidium, caesium or francium}
4/484 . . . . . {an alkali metal bound to a cyclic carbon}
4/486 . . . . . {at least two metal atoms in the same molecule}
4/488 . . . . . {at least two lithium atoms in the same molecule}
4/50 . . . selected from alkaline earth metals, zinc, cadmium, mercury, copper or silver
4/52 . . . selected from boron, aluminium, gallium, indium, thallium or rare earths (C08F 4/14 takes precedence)
4/54 . . . together with other compounds thereof
4/545 . . . . {rare earths being present, e.g. triethylaluminium + neodymium octanoate}
4/56 . . . . Alkali metals being the only metals present, e.g. Alfin catalysts
4/565 . . . . . {Lithium being present, e.g. butyllithium + sodiumphenoxide}
4/58 . . . together with silicon, germanium, tin, lead, antimony, bismuth or compounds thereof
4/60 . . . together with refractory metals, iron group metals, platinum group metals, manganese, rhenium {technetium} or compounds thereof

NOTES

1. In groups C08F 4/602-C08F 4/62, the following term is used with the meaning indicated: "component" comprises a transition metal or a compound thereof, pretreated or not.
2. {In groups C08F 4/602-C08F 4/619, the group C08F 4/60003 takes precedence}

4/60003 . . . . {the metallic compound containing a multidentate ligand, i.e. a ligand capable of donating two or more pairs of electrons to form a coordinate or ionic bond (not used)}

NOTE

For monoanionic compounds, the charge is on the last mentioned atom; for dianionic compounds, the charge is on the first and the last mentioned atoms except for compounds marked with * where the charge is on the marked atom

4/60006 . . . . . {Bidentate ligand (not used)}
4/6001 . . . . . {Neutral ligand}
4/60013 . . . . . {NN}
4/60017 . . . . . {NO}
4/6002 . . . . . {NS}
4/60024 . . . . . {OS}
4/60027 . . . . . {PN}
4/60031 . . . . . {PO}
4/60034 . . . . . {PP}
4/60037 . . . . . {PS}
4/60041 . . . . . {Monoanionic ligand}
4/60044 . . . . . {NN}
4/60048 . . . . . {NO}
4/60051 . . . . . {NS}
4/60055 . . . . . {ON}
4/60058 . . . . . {OO}
4/60062 . . . . . {PN}
4/60065 . . . . . {PO}
4/60068 . . . . . {Dianionic ligand}
4/60072 . . . . . {NN}
4/60075 . . . . . {NO}
4/60079 . . . . . {OO}
4/60082 . . . . . {Tridentate ligand (not used)}
4/60086 . . . . . {Neutral ligand}
4/60089 . . . . . {NNN}
4/60093 . . . . . {NNO}
4/60096 . . . . . {NNS}
4/60099 . . . . . {NSN}
4/60103 . . . . . {PNN}
4/60106 . . . . . {PNP}
4/6011 . . . . . {Monoanionic ligand}
4/60113 . . . . . {NNN}
4/60117 . . . . . {NNO}
4/6012 . . . . . {ONN}
4/60124 . . . . . {ONO}
4/60127 . . . . . {ON*O}
4/60131 . . . . . {PNO}
4/60134 . . . . . {SNN}
4/60137 . . . . . {SNO}
4/60141 . . . . . {Dianionic ligand}
4/60144 . . . . . {NN(R)C}
4/60148 . . . . . {NN(R)N}
4/60151 . . . . . {NNO}
4/60155 . . . . . {ON(R)C}
4/60158 . . . . . {ONO}
4/60162 . . . . . {O*O*P}
4/60165 . . . . . {OSO}
4/60168 . . . . . {Tetra- or multi-dentate ligand (not used)}
4/60172 . . . . . {Neutral ligand}
4/60175 . . . . . {ONNO}

4/60179 . . . . . {PNNN}
4/60182 . . . . . {Monoanionic ligand}
4/60186 . . . . . {Dianionic ligand}
4/60189 . . . . . {ONNO}
4/60193 . . . . . {OOOO}
4/60196 . . . . . {OSSO}
4/602 . . . . Component covered by group C08F 4/60 with an organo-aluminium compound {(C08F 4/60003 - C08F 4/60196 take precedence)}
4/6022 . . . . . {Component of C08F 4/60 containing at least two different metals}
4/6024 . . . . . {containing magnesium}
4/6026 . . . . . {containing aluminium}
4/6028 . . . . . {with an alumoxane, i.e. a compound containing an -Al-O-Al-group}
4/603 . . . . Component covered by group C08F 4/60 with a metal or compound covered by group C08F 4/44 other than an organo-aluminium compound {(C08F 4/60003 - C08F 4/60196 take precedence)}
4/6032 . . . . . {Component of C08F 4/60 containing at least two different metals}
4/6035 . . . . . {containing magnesium}
4/6037 . . . . . {containing aluminium}
4/605 . . . . Component covered by group C08F 4/60 with a metal or compound covered by group C08F 4/44, not provided for in a single group of groups C08F 4/602 or C08F 4/603 {(C08F 4/60003 - C08F 4/60196 take precedence)}
4/6052 . . . . . {Component of C08F 4/60 containing at least two different metals}
4/6055 . . . . . {containing magnesium}
4/6057 . . . . . {containing aluminium}
4/606 . . . . Catalysts comprising at least two different metals, in metallic form or as compounds thereof, in addition to the component covered by groups C08F 4/60 {(C08F 4/60003 - C08F 4/60196 take precedence)}
4/6065 . . . . . {containing silicium}
4/607 . . . . Catalysts containing a specific non-metal or metal-free compound {(C08F 4/60003 - C08F 4/60196 take precedence)}
4/608 . . . . . inorganic
4/609 . . . . . organic
4/6091 . . . . . {hydrocarbon}
4/6092 . . . . . {containing aliphatic unsaturation}
4/6093 . . . . . {containing halogen}
4/6094 . . . . . {containing oxygen}
4/6095 . . . . . {containing nitrogen}
4/6096 . . . . . {containing sulfur}
4/6097 . . . . . {containing phosphorus}
4/6098 . . . . . {containing another heteroatom}
4/61 . . . . Pretreating the metal or compound covered by group C08F 4/60 before the final contacting with the metal or compound covered by group C08F 4/44 {(C08F 4/60003 - C08F 4/60196 take precedence)}
4/611 . . . . . Pretreating with non-metals or metal-free compounds
4/612 . . . . . Pretreating with metals or metal-containing compounds
4/613 . . . . . with metals covered by group C08F 4/60 or compounds thereof
4/614 . . . . . with magnesium or compounds thereof
4/6141 . . . . . {and metals of C08F 4/60 or compounds thereof}
4/6143 . . . . . {halides of magnesium}
4/6145 . . . . . {and metals of group C08F 4/60 or compounds thereof}
4/6146 . . . . . {organo-magnesium compounds}
4/6148 . . . . . {magnesium or compounds thereof not provided for in C08F 4/6143 or C08F 4/6146}
4/615 . . . . . with aluminium or compounds thereof
4/6152 . . . . . {and metals of C08F 4/60 or compounds thereof}
4/6155 . . . . . {and magnesium or compounds thereof}
4/6157 . . . . . {and metals of C08F 4/60 or compounds thereof}
4/616 . . . . . with silicon or compounds thereof
4/6162 . . . . . {and metals of C08F 4/60 or compounds thereof}
4/6165 . . . . . {and magnesium or compounds thereof}
4/6167 . . . . . {and aluminium or compounds thereof}
4/617 . . . . . with metals or metal-containing compounds, not provided for in groups C08F 4/613 - C08F 4/616
4/6172 . . . . . {and metals of C08F 4/60 or compounds thereof}
4/6174 . . . . . {and magnesium or compounds thereof}
4/6176 . . . . . {and aluminium or compounds thereof}
4/6178 . . . . . {and silicon or compounds thereof}
4/618 . . . . . with metals or metal-containing compounds, provided for in at least two of the groups C08F 4/613 - C08F 4/617
4/6181 . . . . . {and metals of C08F 4/60 or compounds thereof}
4/6183 . . . . . {and magnesium or compounds thereof}
4/6185 . . . . . {and aluminium or compounds thereof}
4/6186 . . . . . {and silicon or compounds thereof}
4/6188 . . . . . {and metals or metal-containing compounds of C08F 4/617}
4/619 . . . . Component covered by group C08F 4/60 containing a transition metal-carbon bond {(C08F 4/60003 - C08F 4/60196 take precedence)}
4/61904 . . . . . {in combination with another component of C08F 4/60}
4/61908 . . . . . {in combination with an ionising compound other than alumoxane, e.g. $(C_6F_5)_4B^-X^+$}
4/61912 . . . . . {in combination with an organoaluminium compound}
4/61916 . . . . . {supported on a carrier, e.g. silica, $MgCl_2$, polymer}

4/6192 . . . . . containing at least one cyclopentadienyl ring, condensed or not, e.g. an indenyl or a fluorenyl ring
4/61922 . . . . . . {containing at least two cyclopentadienyl rings, fused or not}
4/61925 . . . . {two cyclopentadienyl rings being mutually non-bridged}
4/61927 . . . . {two cyclopentadienyl rings being mutually bridged}
4/62 . . . . Refractory metals or compounds thereof

NOTE

Group C08F 4/62003 takes precedence over groups C08F 4/622 - C08F 4/639

4/62003 . . . . . {the metallic compound containing a multidentate ligand, i.e. a ligand capable of donating two or more pairs of electrons to form a coordinate or ionic bond (not used)}

NOTE

For monoanionic compounds, the charge is on the last mentioned atom; for dianionic compounds, the charge is on the first and the last mentioned atoms except for compounds marked with * where the charge is on the marked atom

4/62006 . . . . . {Bidentate ligand (not used)}
4/6201 . . . . . {Neutral ligand}
4/62013 . . . . . {NN}
4/62017 . . . . . {NO}
4/6202 . . . . . {NS}
4/62024 . . . . . {OS}
4/62027 . . . . . {PN}
4/62031 . . . . . {PO}
4/62034 . . . . . {PP}
4/62037 . . . . . {PS}
4/62041 . . . . . {Monoanionic ligand}
4/62044 . . . . . {NN}
4/62048 . . . . . {NO}
4/62051 . . . . . {NS}
4/62055 . . . . . {ON}
4/62058 . . . . . {OO}
4/62062 . . . . . {PN}
4/62065 . . . . . {PO}
4/62068 . . . . . {Dianionic ligand}
4/62072 . . . . . {NN}
4/62075 . . . . . {NO}
4/62079 . . . . . {OO}
4/62082 . . . . . {Tridentate ligand (not used)}
4/62086 . . . . . {Neutral ligand}
4/62089 . . . . . {NNN}
4/62093 . . . . . {NNO}
4/62096 . . . . . {NNS}
4/62099 . . . . . {NSN}
4/62103 . . . . . {PNN}
4/62106 . . . . . {PNP}
4/6211 . . . . . {Monoanionic ligand}
4/62113 . . . . . {NNN}
4/62117 . . . . . {NNO}
4/6212 . . . . . {ONN}
4/62124 . . . . . {ONO}
4/62127 . . . . . {ON*O}
4/62131 . . . . . {PNO}
4/62134 . . . . . {SNN}
4/62137 . . . . . {SNO}
4/62141 . . . . . {Dianionic ligand}
4/62144 . . . . . {NN(R)C}
4/62148 . . . . . {NN(R)N}
4/62151 . . . . . {NNO}
4/62155 . . . . . {ON(R)C}
4/62158 . . . . . {ONO}
4/62162 . . . . . {O*O*P}
4/62165 . . . . . {OSO}
4/62168 . . . . . {Tetra- or multi-dentate ligand (not used)}
4/62172 . . . . . {Neutral ligand}
4/62175 . . . . . {ONNO}
4/62179 . . . . . {PNNN}
4/62182 . . . . . {Monoanionic ligand}
4/62186 . . . . . {Dianionic ligand}
4/62189 . . . . . {ONNO}
4/62193 . . . . . {OOOO}
4/62196 . . . . . {OSSO}
4/622 . . . . . Component covered by group C08F 4/62 with an organo-aluminium compound {(C08F 4/62003 - C08F 4/62196 take precedence)}
4/6222 . . . . . {Component of C08F 4/62 containing at least two different metals}
4/6224 . . . . . {containing magnesium}
4/6226 . . . . . {containing aluminium}
4/6228 . . . . . {with an aluminoxane, i.e. a compound containing an Al-O-Al- group}
4/623 . . . . . Component covered by group C08F 4/62 with a metal or compound covered by group C08F 4/44 other than an organo-aluminium compound {(C08F 4/62003 - C08F 4/62196 take precedence)}
4/6232 . . . . . {Component of C08F 4/62 containing at least two different metals}
4/6235 . . . . . {containing magnesium}
4/6237 . . . . . {containing aluminium}
4/625 . . . . . Component covered by group C08F 4/62 with a metal or compound covered by group C08F 4/44, not provided for in a single group of groups C08F 4/622 or C08F 4/623 {(C08F 4/62003 - C08F 4/62196 take precedence)}
4/6252 . . . . . {Component of C08F 4/62 containing at least two different metals}
4/6255 . . . . . {containing magnesium}
4/6257 . . . . . {containing aluminium}
4/626 . . . . . Catalysts comprising at least two different metals, in metallic form or as compounds thereof, in addition to the component covered by group C08F 4/62 {(C08F 4/62003 - C08F 4/62196 take precedence)}
4/6265 . . . . . {containing silicium}

4/627 . . . . . Catalysts containing a specific non-metal or metal-free compound {(C08F 4/62003 - C08F 4/62196 take precedence)}
4/628 . . . . . . inorganic
4/629 . . . . . . organic
4/6291 . . . . {hydrocarbon}
4/6292 . . . . {containing aliphatic unsaturation}
4/6293 . . . . {containing halogen}
4/6294 . . . . {containing oxygen}
4/6295 . . . . {containing nitrogen}
4/6296 . . . . {containing sulfur}
4/6297 . . . . {containing phosphorus}
4/6298 . . . . {containing another heteroatom}
4/63 . . . . . Pretreating the metal or compound covered by group C08F 4/62 before the final contacting with the metal or compound covered by group C08F 4/44 {(C08F 4/62003 - C08F 4/62196 take precedence)}
4/631 . . . . . Pretreating with non-metals or metal-free compounds
4/632 . . . . . Pretreating with metals or metal-containing compounds
4/633 . . . . with metals covered by group C08F 4/62 or compounds thereof
4/634 . . . . with magnesium or compounds thereof
4/6341 . . . . {and metals of C08F 4/62 or compounds thereof}
4/6343 . . . . {halides of magnesium}
4/6345 . . . . {and metals of C08F 4/62 or compounds thereof}
4/6346 . . . . {organo-magnesium compounds}
4/6348 . . . . {magnesium or compounds thereof not provided for in C08F 4/6345 or C08F 4/6346}
4/635 . . . . with aluminium or compounds thereof
4/6352 . . . . {and metals of C08F 4/62 or compounds thereof}
4/6355 . . . . {and magnesium or compounds thereof}
4/6357 . . . . {and metals of C08F 4/62 or compounds thereof}
4/636 . . . . with silicon or compounds thereof
4/6362 . . . . {and metals of C08F 4/62 or compounds thereof}
4/6365 . . . . {and magnesium or compounds thereof}
4/6367 . . . . {and aluminium or compounds thereof}
4/637 . . . . with metals or metal-containing compounds, not provided for in groups C08F 4/633 - C08F 4/636
4/6372 . . . . {and metals of C08F 4/62 or compounds thereof}
4/6374 . . . . {and magnesium or compounds thereof}
4/6376 . . . . {and aluminium or compounds thereof}
4/6378 . . . . {and silicon or compounds thereof}
4/638 . . . . with metals or metal-containing compounds, not provided for in a single group of groups C08F 4/633 - C08F 4/637
4/6381 . . . . {and metals or metal-containing compounds of C08F 4/62}
4/6383 . . . . {and magnesium or compounds thereof}
4/6385 . . . . {and aluminium or compounds thereof}
4/6386 . . . . {and silicon or compounds thereof}
4/6388 . . . . {and metals or metal-containing compounds of C08F 4/637}
4/639 . . . . . Component covered by group C08F 4/62 containing a transition metal-carbon bond {(C08F 4/62003 - C08F 4/62196 take precedence)}
4/63904 . . . . . {in combination with another component of C08F 4/62}
4/63908 . . . . . {in combination with an ionising compound other than alumoxane, e.g. $(C_6F_5)_4B^-X^+$}
4/63912 . . . . . {in combination with an organoaluminium compound}
4/63916 . . . . . {supported on a carrier, e.g. silica, $MgCl_2$, polymer}
4/6392 . . . . . containing at least one cyclopentadienyl ring, condensed or not, e.g. an indenyl or a fluorenyl ring
4/63922 . . . . {containing at least two cyclopentadienyl rings, fused or not}
4/63925 . . . . {two cyclopentadienyl rings being mutually non-bridged}
4/63927 . . . . {two cyclopentadienyl rings being mutually bridged}
4/64 . . . . . Titanium, zirconium, hafnium or compounds thereof

NOTE

Group C08F 4/64003 takes precedence over groups C08F 4/642 - C08F 4/659

4/64003 . . . . . {the metallic compound containing a multidentate ligand, i.e. a ligand capable of donating two or more pairs of electrons to form a coordinate or ionic bond (not used)}

NOTE

For monoanionic compounds, the charge is on the last mentioned atom; for dianionic compounds, the charge is on the first and the last mentioned atoms except for compounds marked with * where the charge is on the marked atom

4/64006 . . . . {Bidentate ligand (not used)}
4/6401 . . . . {Neutral ligand}
4/64013 . . . . {NN}
4/64017 . . . . {NO}
4/6402 . . . . {NS}
4/64024 . . . . {OS}
4/64027 . . . . {PN}
4/64031 . . . . {PO}

4/64034 . . . . . {PP}
4/64037 . . . . . {PS}
4/64041 . . . . . {Monoanionic ligand}
4/64044 . . . . . {NN}
4/64048 . . . . . {NO}
4/64051 . . . . . {NS}
4/64055 . . . . . {ON}
4/64058 . . . . . {OO}
4/64062 . . . . . {PN}
4/64065 . . . . . {PO}
4/64068 . . . . . {Dianionic ligand}
4/64072 . . . . . {NN}
4/64075 . . . . . {NO}
4/64079 . . . . . {OO}
4/64082 . . . . . {Tridentate ligand (not used)}
4/64086 . . . . . {Neutral ligand}
4/64089 . . . . . {NNN}
4/64093 . . . . . {NNO}
4/64096 . . . . . {NNS}
4/64099 . . . . . {NSN}
4/64103 . . . . . {PNN}
4/64106 . . . . . {PNP}
4/6411 . . . . . {Monoanionic ligand}
4/64113 . . . . . {NNN}
4/64117 . . . . . {NNO}
4/6412 . . . . . {ONN}
4/64124 . . . . . {ONO}
4/64127 . . . . . {ON*O}
4/64131 . . . . . {PNO}
4/64134 . . . . . {SNN}
4/64137 . . . . . {SNO}
4/64141 . . . . . {Dianionic ligand}
4/64144 . . . . . {NN(R)C}
4/64148 . . . . . {NN(R)N}
4/64151 . . . . . {NNO}
4/64155 . . . . . {ON(R)C}
4/64158 . . . . . {ONO}
4/64162 . . . . . {O*O*P}
4/64165 . . . . . {OSO}
4/64168 . . . . . {Tetra- or multi-dentate ligand (not used)}
4/64172 . . . . . {Neutral ligand}
4/64175 . . . . . {ONNO}
4/64179 . . . . . {PNNN}
4/64182 . . . . . {Monoanionic ligand}
4/64186 . . . . . {Dianionic ligand}
4/64189 . . . . . {ONNO}
4/64193 . . . . . {OOOO}
4/64196 . . . . . {OSSO}
4/642 . . . . . Component covered by group C08F 4/64 with an organo-aluminium compound {(C08F 4/64003 - C08F 4/64196 take precedence)}
4/6421 . . . . . {Titanium tetrahalides with organo-aluminium compounds}
4/6423 . . . . . {Component of C08F 4/64 containing at least two different metals}
4/6425 . . . . . {containing magnesium}
4/6426 . . . . . {containing aluminium}
4/6428 . . . . . {with an aluminoxane, i.e. a compound containing an Al-O-Al-group}
4/643 . . . . . Component covered by group C08F 4/64 with a metal or compound covered by group C08F 4/44 other than an organo-aluminium compound {(C08F 4/64003 - C08F 4/64196 take precedence)}
4/6432 . . . . . {Component of C08F 4/64 containing at least two different metals}
4/6435 . . . . . {containing magnesium}
4/6437 . . . . . {containing aluminium}
4/645 . . . . . Component covered by group C08F 4/64 with a metal or compound covered by group C08F 4/44, not provided for in a single group of groups C08F 4/642 - C08F 4/643 {(C08F 4/60003 - C08F 4/60196 take precedence)}
4/6452 . . . . . {Component of C08F 4/64 containing at least two different metals}
4/6455 . . . . . {containing magnesium}
4/6457 . . . . . {containing aluminium}
4/646 . . . . . Catalysts comprising at least two different metals, in metallic form or as compounds thereof, in addition to the component covered by group C08F 4/64 {(C08F 4/64003 - C08F 4/64196 take precedence)}
4/6465 . . . . . {containing silicium}
4/647 . . . . . Catalysts containing a specific non-metal or metal-free compound {(C08F 4/64003 - C08F 4/64196 take precedence)}
4/648 . . . . . inorganic
4/649 . . . . . organic
4/6491 . . . . . {hydrocarbon}
4/6492 . . . . . {containing aliphatic unsaturation}
4/6493 . . . . . {containing halogen}
4/6494 . . . . . {containing oxygen}
4/6495 . . . . . {containing nitrogen}
4/6496 . . . . . {containing sulfur}
4/6497 . . . . . {containing phosphorus}
4/6498 . . . . . {containing another heteroatom}
4/65 . . . . . Pretreating the metal or compound covered by group C08F 4/64 before the final contacting with the metal or compound covered by group C08F 4/44 {(C08F 4/64003 - C08F 4/64196 take precedence)}
4/651 . . . . . Pretreating with non-metals or metal-free compounds
4/652 . . . . . Pretreating with metals or metal-containing compounds
4/653 . . . . . with metals of C08F 4/64 or compounds thereof
4/654 . . . . . with magnesium or compounds thereof
4/6541 . . . . . {and metals of C08F 4/64 or compounds thereof}
4/6543 . . . . . {halides of magnesium}

4/6545 . . . . . {and metals of C08F 4/64 or compounds thereof}
4/6546 . . . . . {organo-magnesium compounds}
4/6548 . . . . . {magnesium or compounds thereof, not provided for in C08F 4/6543 or C08F 4/6546}
4/655 . . . . . with aluminium or compounds thereof
4/6552 . . . . . {and metals of C08F 4/64 or compounds thereof}
4/6555 . . . . . {and magnesium or compounds thereof}
4/6557 . . . . . {and metals of C08F 4/64 or compounds thereof}
4/656 . . . . . with silicon or compounds thereof
4/6562 . . . . . {and metals of C08F 4/64 or compounds thereof}
4/6565 . . . . . {and magnesium or compounds thereof}
4/6567 . . . . . {and aluminium or compounds thereof}
4/657 . . . . . with metals or metal-containing compounds, not provided for in groups C08F 4/653 - C08F 4/656
4/6572 . . . . . {and metals of C08F 4/64 or compounds thereof}
4/6574 . . . . . {and magnesium or compounds thereof}
4/6576 . . . . . {and aluminium or compounds thereof}
4/6578 . . . . . {and silicon or compounds thereof}
4/658 . . . . . with metals or metal-containing compounds, not provided for in a single group of groups C08F 4/653 - C08F 4/657
4/6581 . . . . . {and metals of C08F 4/64 or compounds thereof}
4/6583 . . . . . {and magnesium or compounds thereof}
4/6585 . . . . . {and aluminium or compounds thereof}
4/6586 . . . . . {and silicon or compounds thereof}
4/6588 . . . . . {and metals or metal-containing compounds of C08F 4/657}
4/659 . . . . . Component covered by group C08F 4/64 containing a transition metal-carbon bond {(C08F 4/64003 - C08F 4/64196 take precedence)}
4/65904 . . . . . {in combination with another component of C08F 4/64}
4/65908 . . . . . {in combination with an ionising compound other than alumoxane, e.g. $(C_6F_5)_4B^-X^+$}
4/65912 . . . . . {in combination with an organoaluminium compound}
4/65916 . . . . . {supported on a carrier, e.g. silica, $MgCl_2$, polymer}
4/6592 . . . . . containing at least one cyclopentadienyl ring, condensed or not, e.g. an indenyl or a fluorenyl ring
4/65922 . . . . . {containing at least two cyclopentadienyl rings, fused or not}
4/65925 . . . . . {two cyclopentadienyl rings being mutually non-bridged}
4/65927 . . . . . {two cyclopentadienyl rings being mutually bridged}
4/68 . . . . . Vanadium, niobium, tantalum or compounds thereof
4/68008 . . . . . {the metallic compound containing a multidentate ligand, i.e. a ligand capable of donating two or more pairs of electrons to form a coordinate or ionic bond (not used)}

NOTE

For monoanionic compounds, the charge is on the last mentioned atom; for dianionic compounds, the charge is on the first and the last mentioned atoms except for compounds marked with * where the charge is on the marked atom

4/68017 . . . . . {Bidentate ligand (not used)}
4/68025 . . . . . {Neutral ligand}
4/68034 . . . . . {NN}
4/68043 . . . . . {NO}
4/68051 . . . . . {NS}
4/6806 . . . . . {OS}
4/68068 . . . . . {PN}
4/68077 . . . . . {PO}
4/68086 . . . . . {PP}
4/68094 . . . . . {PS}
4/68103 . . . . . {Monoanionic ligand}
4/68112 . . . . . {NN}
4/6812 . . . . . {NO}
4/68129 . . . . . {NS}
4/68137 . . . . . {ON}
4/68146 . . . . . {OO}
4/68155 . . . . . {PN}
4/68163 . . . . . {PO}
4/68172 . . . . . {Dianionic ligand}
4/68181 . . . . . {NN}
4/68189 . . . . . {NO}
4/68198 . . . . . {OO}
4/68206 . . . . . {Tridentate ligand (not used)}
4/68215 . . . . . {Neutral ligand}
4/68224 . . . . . {NNN}
4/68232 . . . . . {NNO}
4/68241 . . . . . {NNS}
4/6825 . . . . . {NSN}
4/68258 . . . . . {PNN}
4/68267 . . . . . {PNP}
4/68275 . . . . . {Monoanionic ligand}
4/68284 . . . . . {NNN}
4/68293 . . . . . {NNO}
4/68301 . . . . . {ONN}
4/6831 . . . . . {ONO}
4/68318 . . . . . {ON*O}
4/68327 . . . . . {PNO}
4/68336 . . . . . {SNN}
4/68344 . . . . . {SNO}

4/68353 . . . . . {Dianionic ligand}
4/68362 . . . . . {NN(R)C}
4/6837 . . . . . {NN(R)N}
4/68379 . . . . . {NNO}
4/68387 . . . . . {ON(R)C}
4/68396 . . . . . {ONO}
4/68405 . . . . . {O*O*P}
4/68413 . . . . . {OSO}
4/68422 . . . . . {Tetra- or multi-dentate ligand (not used)}
4/68431 . . . . . {Neutral ligand}
4/68439 . . . . . {ONNO}
4/68448 . . . . . {PNNN}
4/68456 . . . . . {Monoanionic ligand}
4/68465 . . . . . {Dianionic ligand}
4/68474 . . . . . {ONNO}
4/68482 . . . . . {OOOO}
4/68491 . . . . . {OSSO}
4/685 . . . . . Vanadium or compounds thereof in combination with titanium or compounds thereof
4/69 . . . . . Chromium, molybdenum, tungsten or compounds thereof
4/69008 . . . . . {the metallic compound containing a multidentate ligand, i.e. a ligand capable of donating two or more pairs of electrons to form a coordinate or ionic bond (not used)}

NOTE

For monoanionic compounds, the charge is on the last mentioned atom; for dianionic compounds, the charge is on the first and the last mentioned atoms except for compounds marked with * where the charge is on the marked atom

4/69017 . . . . . {Bidentate ligand (not used)}
4/69025 . . . . . {Neutral ligand}
4/69034 . . . . . {NN}
4/69043 . . . . . {NO}
4/69051 . . . . . {NS}
4/6906 . . . . . {OS}
4/69068 . . . . . {PN}
4/69077 . . . . . {PO}
4/69086 . . . . . {PP}
4/69094 . . . . . {PS}
4/69103 . . . . . {Monoanionic ligand}
4/69112 . . . . . {NN}
4/6912 . . . . . {NO}
4/69129 . . . . . {NS}
4/69137 . . . . . {ON}
4/69146 . . . . . {OO}
4/69155 . . . . . {PN}
4/69163 . . . . . {PO}
4/69172 . . . . . {Dianionic ligand}
4/69181 . . . . . {NN}
4/69189 . . . . . {NO}
4/69198 . . . . . {OO}
4/69206 . . . . . {Tridentate ligand (not used)}
4/69215 . . . . . {Neutral ligand}
4/69224 . . . . . {NNN}
4/69232 . . . . . {NNO}
4/69241 . . . . . {NNS}
4/6925 . . . . . {NSN}
4/69258 . . . . . {PNN}
4/69267 . . . . . {PNP}
4/69275 . . . . . {Monoanionic ligand}
4/69284 . . . . . {NNN}
4/69293 . . . . . {NNO}
4/69301 . . . . . {ONN}
4/6931 . . . . . {ONO}
4/69318 . . . . . {ON*O}
4/69327 . . . . . {PNO}
4/69336 . . . . . {SNN}
4/69344 . . . . . {SNO}
4/69353 . . . . . {Dianionic ligand}
4/69362 . . . . . {NN(R)C}
4/6937 . . . . . {NN(R)N}
4/69379 . . . . . {NNO}
4/69387 . . . . . {ON(R)C}
4/69396 . . . . . {ONO}
4/69405 . . . . . {O*O*P}
4/69413 . . . . . {OSO}
4/69422 . . . . . {Tetra- or multi-dentate ligand (not used)}
4/69431 . . . . . {Neutral ligand}
4/69439 . . . . . {ONNO}
4/69448 . . . . . {PNNN}
4/69456 . . . . . {Monoanionic ligand}
4/69465 . . . . . {Dianionic ligand}
4/69474 . . . . . {ONNO}
4/69482 . . . . . {OOOO}
4/69491 . . . . . {OSSO}
4/695 . . . . Manganese, technetium, rhenium or compounds thereof
4/70 . . . . Iron group metals, platinum group metals or compounds thereof
4/7001 . . . . . {the metallic compound containing a multidentate ligand, i.e. a ligand capable of donating two or more pairs of electrons to form a coordinate or ionic bond (not used)}

NOTE

For monoanionic compounds, the charge is on the last mentioned atom; for dianionic compounds, the charge is on the first and the last mentioned atoms except for compounds marked with * where the charge is on the marked atom

4/7003 . . . . . {Bidentate ligand (not used)}
4/7004 . . . . . {Neutral ligand}
4/7006 . . . . . {NN}
4/7008 . . . . . {NO}
4/7009 . . . . . {NS}
4/7011 . . . . . {OS}
4/7013 . . . . . {PN}
4/7014 . . . . . {PO}
4/7016 . . . . . {PP}
4/7018 . . . . . {PS}
4/7019 . . . . . {Monoanionic ligand}
4/7021 . . . . . {NN}

4/7022 . . . . . {NO}
4/7024 . . . . . {NS}
4/7026 . . . . . {ON}
4/7027 . . . . . {OO}
4/7029 . . . . . {PN}
4/7031 . . . . . {PO}
4/7032 . . . . . {Dianionic ligand}
4/7034 . . . . . {NN}
4/7036 . . . . . {NO}
4/7037 . . . . . {OO}
4/7039 . . . . . {Tridentate ligand (not used)}
4/704 . . . . . {Neutral ligand}
4/7042 . . . . . {NNN}
4/7044 . . . . . {NNO}
4/7045 . . . . . {NNS}
4/7047 . . . . . {NSN}
4/7049 . . . . . {PNN}
4/705 . . . . . {PNP}
4/7052 . . . . . {Monoanionic ligand}
4/7054 . . . . . {NNN}
4/7055 . . . . . {NNO}
4/7057 . . . . . {ONN}
4/7059 . . . . . {ONO}
4/706 . . . . . {ON*O}
4/7062 . . . . . {PNO}
4/7063 . . . . . {SNN}
4/7065 . . . . . {SNO}
4/7067 . . . . . {Dianionic ligand}
4/7068 . . . . . {NN(R)C}
4/707 . . . . . {NN(R)N}
4/7072 . . . . . {NNO}
4/7073 . . . . . {ON(R)C}
4/7075 . . . . . {ONO}
4/7077 . . . . . {O*O*P}
4/7078 . . . . . {OSO}
4/708 . . . . . {Tetra- or multi-dentate ligand (not used)}
4/7081 . . . . . {Neutral ligand}
4/7083 . . . . . {ONNO}
4/7085 . . . . . {PNNN}
4/7086 . . . . . {Monoanionic ligand}
4/7088 . . . . . {Dianionic ligand}
4/709 . . . . . {ONNO}
4/7091 . . . . . {OOOO}
4/7093 . . . . . {OSSO}
4/7095 . . . . . {Cobalt, nickel or compounds thereof (C08F 4/7001 - C08F 4/7093 take precedence)}
4/7096 . . . . . {Cobalt or compounds thereof}
4/7098 . . . . . {Nickel or compounds thereof}
4/72 . . selected from metals not provided for in group C08F 4/44 (C08F 4/54 - C08F 4/70 take precedence)
4/74 . . . selected from refractory metals
4/76 . . . . selected from titanium, zirconium, hafnium, vanadium, niobium or tantalum
4/78 . . . . selected from chromium, molybdenum or tungsten
4/80 . . . selected from iron group metals or platinum group metals
4/82 . . . . pi-Allyl complexes

6/00 **Post-polymerisation treatments** (C08F 8/00 takes precedence; of conjugated diene rubbers C08C)

NOTES

1. In groups C08F 6/00 - C08F 6/28 the treatment of specific polymers is indicated using the subdivision of C08L 23/00 - C08L 57/12 in the form of C-Sets. Example: (C08F 6/12, C08L 25/06)
2. Groups C08F 6/001, C08F 6/006, C08F 6/008, C08F 6/02, C08F 6/04 take precedence over the other groups.

6/001 . {Removal of residual monomers by physical means}
6/003 . . {from polymer solutions, suspensions, dispersions or emulsions without recovery of the polymer therefrom}
6/005 . . {from solid polymers}
6/006 . {Removal of residual monomers by chemical reaction, e.g. scavenging}
6/008 . {Treatment of solid polymer wetted by water or organic solvents, e.g. coagulum, filter cakes}
6/02 . Neutralisation of the polymerisation mass, e.g. killing the catalyst (short-stopping C08F 2/42) {also removal of catalyst residues}
6/04 . Fractionation
6/06 . Treatment of polymer solutions
6/08 . . Removal of catalyst residues {(not used, see C08F 6/02)}
6/10 . . Removal of volatile materials, e.g. monomers, solvents
6/12 . . Separation of polymers from solutions
6/14 . Treatment of polymer emulsions
6/16 . . Purification
6/18 . . Increasing the size of the dispersed particles
6/20 . . Concentration
6/22 . . Coagulation
6/24 . Treatment of polymer suspensions
6/26 . Treatment of polymers prepared in bulk {also solid polymers or polymer melts}
6/28 . . Purification

8/00 **Chemical modification by after-treatment** (graft polymers, block polymers, crosslinking with unsaturated monomers or with polymers C08F 251/00 - C08F 299/00; of conjugated diene rubbers C08C; crosslinking in general C08J)

NOTE

Classification is given in the form of C-Sets when sufficient information is provided concerning the polymer to be modified. In groups C08F 8/00 - C08F 8/50, the chemical modification of specific polymers is indicated using the subdivisions of C08F 10/00 - C08F 34/04, C08F 38/00 - C08F 38/04, C08F 110/00 - C08F 134/04, C08F 138/00 - C08F 138/04, C08F 210/00 - C08F 234/04, C08F 238/00 - C08F 299/08. Example: (C08F 8/44, C08F 16/06) Otherwise, only the C08F 8/00 - C08F 8/50 symbol(s) is (are) given.

8/02 . Alkylation
8/04 . Reduction, e.g. hydrogenation

8/06 . Oxidation
8/08 . Epoxidation
8/10 . Acylation
8/12 . Hydrolysis
8/14 . Esterification
8/16 . . Lactonisation
8/18 . Introducing halogen atoms or halogen-containing groups
8/20 . . Halogenation
8/22 . . . by reaction with free halogens
8/24 . . Haloalkylation
8/26 . Removing halogen atoms or halogen-containing groups from the molecule
8/28 . Condensation with aldehydes or ketones
8/30 . Introducing nitrogen atoms or nitrogen-containing groups (polymeric products of isocyanates or thiocyanates C08G)
8/32 . . by reaction with amines
8/34 . Introducing sulfur atoms or sulfur-containing groups
8/36 . . Sulfonation; Sulfation
8/38 . . Sulfohalogenation
8/40 . Introducing phosphorus atoms or phosphorus-containing groups
8/42 . Introducing metal atoms or metal-containing groups
8/44 . Preparation of metal salts or ammonium salts
8/46 . Reaction with unsaturated dicarboxylic acids or anhydrides thereof, e.g. maleinisation
8/48 . Isomerisation; Cyclisation

NOTE

When the cyclisation is an epoxidation, C08F 8/08 takes precedence. When the cyclisation is a lactonisation, C08F 8/16 takes precedence.

8/50 . Partial depolymerisation

Homopolymers and copolymers

10/00 Homopolymers and copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond

NOTE

In groups C08F 10/00 - C08F 10/14 the method of polymerisation or the nature of the catalyst may be indicated using the subdivision of C08F 2/00 - C08F 2/58 or of C08F 4/00 - C08F 4/82 in the form of C-Sets. Example: (C08F 10/02, C08F 4/651)

10/02 . Ethene
10/04 . Monomers containing three or four carbon atoms
10/06 . . Propene
10/08 . . Butenes
10/10 . . . Isobutene
10/14 . Monomers containing five or more carbon atoms

12/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring

NOTES

1. Until March 2012, in groups C08F 12/04 - C08F 12/08 the method of polymerisation might be indicated using the subdivision of C08F 2/02 - C08F 2/06, C08F 2/16 - C08F 2/30, C08F 2/34 or C08F 2/38 - C08F 2/46 in the form of C-sets; the nature of the catalyst might be indicated using the subdivision of C08F 4/00 - C08F 4/60, C08F 4/62, C08F 4/64 or C08F 4/68 - C08F 4/82 in the form of C-Sets. Example: (C08F 12/08, C08F 2/20)
2. From April 2012 on, in groups C08F 12/00 - C08F 12/36 the method of polymerisation may be indicated using the subdivision of C08F 2/00 - C08F 2/60 in the form of C-Sets; the nature of the catalyst may be indicated using the subdivision of C08F 4/00 - C08F 4/82 in the form of C-Sets. Example: (C08F 12/08, C08F 2/56)

12/02 . Monomers containing only one unsaturated aliphatic radical
12/04 . . containing one ring
12/06 . . . Hydrocarbons
12/08 . . . . Styrene
12/12 . . . . Monomers containing a branched unsaturated aliphatic radical or a ring substituted by an alkyl radical
12/14 . . . substituted by hetero atoms or groups containing heteroatoms
12/16 . . . . Halogens
12/18 . . . . . Chlorine
12/20 . . . . . Fluorine
12/22 . . . . Oxygen
12/24 . . . . . Phenols or alcohols
12/26 . . . . Nitrogen
12/28 . . . . . Amines
12/30 . . . . Sulfur
12/32 . . containing two or more rings
12/34 . Monomers containing two or more unsaturated aliphatic radicals
12/36 . . Divinylbenzene

14/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen

14/02 . Monomers containing chlorine
14/04 . . Monomers containing two carbon atoms
14/06 . . . Vinyl chloride

NOTE

In group C08F 14/06 the method of polymerisation may be indicated using the subdivision of C08F 2/02 - C08F 2/06, C08F 2/16 - C08F 2/30, C08F 2/34 or C08F 2/38 - C08F 2/46 in the form of C-Sets. Example: (C08F 14/06, C08F 2/44)

14/08 . . . Vinylidene chloride
14/12 . . . 1,2- Dichloroethene
14/14 . . Monomers containing three or more carbon atoms
14/16 . Monomers containing bromine or iodine
14/18 . Monomers containing fluorine

NOTE

In group C08F 14/18 and subgroups, the method of polymerisation may be indicated using the subdivision of C08F 2/02, C08F 2/04, C08F 2/16, C08F 2/38, C08F 2/44 and C08F 2/46 in the form of C-Sets. Example: (C08F 14/22, C08F 2/38)

14/185 . . {Monomers containing fluorine not covered by the groups C08F 14/20 - C08F 14/28}
14/20 . . Vinyl fluoride
14/22 . . Vinylidene fluoride
14/24 . . Trifluorochloroethene
14/26 . . Tetrafluoroethene
14/28 . . Hexafluoropropene

16/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal or ketal radical

16/02 . by an alcohol radical
16/04 . . Acyclic compounds
16/06 . . . Polyvinyl alcohol {; Vinyl alcohol}
16/08 . . . Allyl alcohol
16/10 . . Carbocyclic compounds
16/12 . by an ether radical
16/14 . . Monomers containing only one unsaturated aliphatic radical
16/16 . . . Monomers containing no hetero atoms other than the ether oxygen
16/18 . . . . Acyclic compounds
16/20 . . . . . Monomers containing three or more carbon atoms in the unsaturated aliphatic radical
16/22 . . . . Carbocyclic compounds
16/24 . . . Monomers containing halogen
16/26 . . . Monomers containing oxygen atoms in addition to the ether oxygen
16/28 . . . Monomers containing nitrogen
16/30 . . . Monomers containing sulfur
16/32 . . Monomers containing two or more unsaturated aliphatic radicals
16/34 . by an aldehydo radical
16/36 . by a ketonic radical
16/38 . by an acetal or ketal radical

18/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid or of a haloformic acid

18/02 . Esters of monocarboxylic acids
18/04 . . Vinyl esters
18/06 . . . Vinyl formate
18/08 . . . Vinyl acetate
18/10 . . . of monocarboxylic acids containing three or more carbon atoms
18/12 . . with unsaturated alcohols containing three or more carbon atoms
18/14 . Esters of polycarboxylic acids
18/16 . . with alcohols containing three or more carbon atoms
18/18 . . . Diallyl phthalate
18/20 . Esters containing halogen
18/22 . Esters containing nitrogen
18/24 . Esters of carbonic or haloformic acids

20/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and only one being terminated by only one carboxyl radical or a salt, anhydride, ester, amide, imide or nitrile thereof

20/02 . Monocarboxylic acids having less than ten carbon atoms, Derivatives thereof
20/04 . . Acids, Metal salts or ammonium salts thereof
20/06 . . . Acrylic acid; Methacrylic acid; Metal salts or ammonium salts thereof
20/08 . . Anhydrides
20/10 . . Esters

NOTE

In groups C08F 20/12 - C08F 20/14 the method of polymerisation may be indicated using the subdivision of C08F 2/02 - C08F 2/06, C08F 2/16 - C08F 2/30, C08F 2/34 or C08F 2/38 - C08F 2/46 in the form of C-Sets. Example: (C08F 20/12, C08F 2/26)

20/12 . . . of monohydric alcohols or phenols
20/14 . . . . Methyl esters
20/16 . . . . of phenols or of alcohols containing two or more carbon atoms
20/18 . . . . . with acrylic or methacrylic acids
20/20 . . . of polyhydric alcohols or phenols
20/22 . . . Esters containing halogen
20/24 . . . . containing perhaloalkyl radicals
20/26 . . . Esters containing oxygen in addition to the carboxy oxygen
20/28 . . . . containing no aromatic rings in the alcohol moiety
20/30 . . . . containing aromatic rings in the alcohol moiety
20/32 . . . . containing epoxy radicals
20/34 . . . Esters containing nitrogen
20/36 . . . . containing oxygen in addition to the carboxy oxygen
20/38 . . . Esters containing sulfur
20/40 . . . Esters of unsaturated alcohols
20/42 . . Nitriles
20/44 . . . Acrylonitrile

NOTE

In group C08F 20/44 the method of polymerisation may be indicated using the subdivision of C08F 2/02 - C08F 2/06, C08F 2/16 - C08F 2/30, C08F 2/34 or

C08F 20/44 (continued) C08F 2/38 - C08F 2/46 in the form of C-Sets. Example: (C08F 20/44, C08F 2/46)

20/50 . . . containing four or more carbon atoms
20/52 . . Amides or imides
20/54 . . . Amides
20/56 . . . . Acrylamide; Methacrylamide
20/58 . . . . containing oxygen in addition to the carbonamido oxygen
20/60 . . . . containing nitrogen in addition to the carbonamido nitrogen
20/62 . Monocarboxylic acids having ten or more carbon atoms; Derivatives thereof
20/64 . . Acids; Metal salts or ammonium salts thereof
20/66 . . Anhydrides
20/68 . . Esters
20/70 . . Nitriles; Amides; Imides

22/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical and containing at least one other carboxyl radical in the molecule; Salts, anhydrides, esters, amides, imides or nitriles thereof

22/02 . Acids; Metal salts or ammonium salts thereof
22/04 . Anhydrides, e.g. cyclic anhydrides
22/06 . . Maleic anhydride
22/10 . Esters
22/105 . . {of polyhydric alcohols or polyhydric phenols, e.g. ethylene glycol dimethacrylate}
22/12 . . of phenols or saturated alcohols {(C08F 22/105 takes precedence)}
22/14 . . . Esters having no free carboxylic acid groups
22/16 . . . Esters having free carboxylic acid groups
22/18 . . . Esters containing halogen
22/20 . . . Esters containing oxygen in addition to the carboxy oxygen
22/22 . . . Esters containing nitrogen
22/24 . . . Esters containing sulfur
22/26 . . of unsaturated alcohols {(C08F 22/105 takes precedence)}
22/28 . . . Diallyl maleate
22/30 . Nitriles
22/32 . . Alpha-cyano-acrylic acid; Esters thereof
22/34 . . Vinylidene cyanide
22/36 . Amides or imides
22/38 . . Amides
22/385 . . . {Monomers containing two or more (meth)acrylamide groups, e.g. N,N'-methylenebisacrylamide}
22/40 . . Imides, e.g. cyclic imides

24/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (cyclic esters of polyfunctional acids C08F 18/00; cyclic anhydrides of unsaturated acids C08F 20/00, C08F 22/00)

26/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen

26/02 . by a single or double bond to nitrogen
26/04 . . Diallylamine
26/06 . by a heterocyclic ring containing nitrogen
26/08 . . N-Vinyl-pyrrolidine
26/10 . . N-Vinyl-pyrrolidone
26/12 . . N-Vinyl-carbazole

28/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur

28/02 . by a bond to sulfur
28/04 . . Thioethers
28/06 . by a heterocyclic ring containing sulfur

30/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing phosphorus, selenium, tellurium or a metal (metal salts, e.g. phenolates or alcoholates, see the parent compounds)

30/02 . containing phosphorus
30/04 . containing a metal
30/06 . . containing boron
30/08 . . containing silicon
30/10 . . containing germanium

32/00 Homopolymers and copolymers of cyclic compounds having no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic ring system

32/02 . having no condensed rings
32/04 . . having one carbon-to-carbon double bond
32/06 . . having two or more carbon-to-carbon double bonds
32/08 . having two condensed rings (coumarone-indene polymers C08F 244/00)

34/00 Homopolymers and copolymers of cyclic compounds having no unsaturated aliphatic radicals in a side chain and having one or more carbon-to-carbon double bonds in a heterocyclic ring (cyclic esters of polyfunctional acids C08F 18/00; cyclic anhydrides or imides C08F 22/00)

34/02 . in a ring containing oxygen (coumarone-indene polymers C08F 244/00)
34/04 . in a ring containing sulfur

36/00 Homopolymers and copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds (C08F 32/00 takes precedence)

NOTE

In C08F 36/00 - C08F 36/22 the method of polymerisation may be indicated using the subdivision of C08F 2/00 - C08F 2/58 in the form of C-Sets; the nature of the catalyst

C08F 36/00 (continued)

may be indicated using the subdivision of C08F 4/00 - C08F 4/60, C08F 4/62, C08F 4/64, C08F 4/642, C08F 4/6421, C08F 4/643 or C08F 4/68 - C08F 4/82 in the form of C-Sets. Example: (C08F 36/04, C08F 4/642)

36/02 . the radical having only two carbon-to-carbon double bonds
36/04 . . conjugated
36/045 . . . {conjugated hydrocarbons other than butadiene or isoprene}
36/06 . . . Butadiene
36/08 . . . Isoprene
36/14 . . . containing elements other than carbon and hydrogen
36/16 . . . . containing halogen
36/18 . . . . . containing chlorine
36/20 . . unconjugated
36/22 . the radical having three or more carbon-to-carbon double bonds

38/00 Homopolymers and copolymers of compounds having one or more carbon-to-carbon triple bonds

38/02 . Acetylene
38/04 . Vinylacetylene

Homopolymers

110/00 Homopolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond

NOTE

In groups C08F 110/00 - C08F 110/14 the method of polymerisation or the nature of the catalyst may be indicated using the subdivision of C08F 2/00 - C08F 2/58 or of C08F 4/00 - C08F 4/82 in the form of C-Sets. Example: (C08F 110/14, C08F 4/6592)

110/02 . Ethene
110/04 . Monomers containing three or four carbon atoms
110/06 . . Propene
110/08 . . Butenes
110/10 . . . Isobutene
110/14 . Monomers containing five or more carbon atoms

112/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring

NOTE

From April 2012 on, in groups C08F 112/00 - C08F 112/36 the method of polymerisation may be indicated using the subdivision of C08F 2/00 - C08F 2/60 in the form of C-Sets; the nature of the catalyst may be indicated using the subdivision of C08F 4/00 - C08F 4/82 in the form of C-Sets. Example: (C08F 112/08, C08F 4/70)

112/02 . Monomers containing only one unsaturated aliphatic radical
112/04 . . containing one ring
112/06 . . . Hydrocarbons
112/08 . . . . Styrene
112/12 . . . . Monomers containing a branched unsaturated aliphatic radical or a ring substituted by an alkyl radical
112/14 . . . substituted by hetero atoms or groups containing heteroatoms
112/32 . . containing two or more rings
112/34 . Monomers containing two or more unsaturated aliphatic radicals
112/36 . . Divinylbenzene

114/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen

114/02 . Monomers containing chlorine
114/04 . . Monomers containing two carbon atoms
114/06 . . . Vinyl chloride
114/08 . . . Vinylidene chloride
114/12 . . . 1,2- Dichloroethene
114/14 . . Monomers containing three or more carbon atoms
114/16 . Monomers containing bromine or iodine
114/18 . Monomers containing fluorine
114/185 . . {Monomers containing fluorine not covered by the groups C08F 114/20 - C08F 114/28}
114/20 . . Vinyl fluoride
114/22 . . Vinylidene fluoride
114/24 . . Trifluorochloroethene
114/26 . . Tetrafluoroethene
114/28 . . Hexafluoropropene

116/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal or ketal radical

116/02 . by an alcohol radical
116/04 . . Acyclic compounds
116/06 . . . Polyvinyl alcohol {; Vinyl alcohol}
116/08 . . . Allyl alcohol
116/10 . . Carbocyclic compounds
116/12 . by an ether radical
116/14 . . Monomers containing only one unsaturated aliphatic radical
116/16 . . . Monomers containing no hetero atoms other than the ether oxygen
116/18 . . . . Acyclic compounds
116/20 . . . . . Monomers containing three or more carbon atoms in the unsaturated aliphatic radical
116/34 . by an aldehydo radical
116/36 . by a ketonic radical
116/38 . by a acetal or ketal radical

118/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid or of a haloformic acid

118/02 . Esters of monocarboxylic acids
118/04 . . Vinyl esters
118/06 . . . Vinyl formate
118/08 . . . Vinyl acetate

118/10 . . . of monocarboxylic acids containing three or more carbon atoms
118/12 . . with unsaturated alcohols containing three or more carbon atoms
118/14 . Esters of polycarboxylic acids
118/16 . . with alcohols containing three or more carbon atoms
118/18 . . . Diallyl phthalate

120/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and only one being terminated by only one carboxyl radical or a salt, anhydride, ester, amide, imide or nitrile thereof

120/02 . Monocarboxylic acids having less than ten carbon atoms; Derivatives thereof
120/04 . . Acids; Metal salts or ammonium salts thereof
120/06 . . . Acrylic acid; Methacrylic acid; Metal salts or ammonium salts thereof
120/08 . . Anhydrides
120/10 . . Esters
120/12 . . . of monohydric alcohols or phenols
120/14 . . . . Methyl esters
120/16 . . . . of phenols or of alcohols containing two or more carbon atoms
120/18 . . . . . with acrylic or methacrylic acids
120/20 . . . of polyhydric alcohols or phenols
120/22 . . . Esters containing halogen
120/24 . . . . containing perhaloalkyl radicals
120/26 . . . Esters containing oxygen in addition to the carboxy oxygen
120/28 . . . . containing no aromatic rings in the alcohol moiety
120/30 . . . . containing aromatic rings in the alcohol moiety
120/32 . . . . containing epoxy radicals
120/34 . . . Esters containing nitrogen
120/36 . . . . containing oxygen in addition to the carboxy oxygen
120/38 . . . Esters containing sulfur
120/40 . . . Esters of unsaturated alcohols
120/42 . . Nitriles
120/44 . . . Acrylonitrile
120/50 . . . containing four or more carbon atoms
120/52 . . Amides or imides
120/54 . . . Amides
120/56 . . . . Acrylamide; Methacrylamide
120/58 . . . . containing oxygen in addition to the carbonamido oxygen
120/60 . . . . containing nitrogen in addition to the carbonamido nitrogen
120/62 . Monocarboxylic acids having ten or more carbon atoms; Derivatives thereof
120/64 . . Acids; Metal salts or ammonium salts thereof
120/66 . . Anhydrides
120/68 . . Esters
120/70 . . Nitriles; Amides; Imides

122/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical and containing at least one other carboxyl radical in the molecule; Salts, anhydrides, esters, amides, imides or nitriles thereof

122/02 . Acids; Metal salts or ammonium salts thereof
122/04 . Anhydrides, e.g. cyclic anhydrides
122/06 . . Maleic anhydride
122/10 . Esters
122/105 . . {of polyhydric alcohols or polyhydric phenols, e.g. ethylene glycol dimethacrylat}
122/12 . . of phenols or saturated alcohols {(C08F 122/105 takes precedence)}
122/14 . . . Esters having no free carboxylic acid groups
122/16 . . . Esters having free carboxylic acid groups
122/18 . . . Esters containing halogen
122/20 . . . Esters containing oxygen in addition to the carboxy oxygen
122/22 . . . Esters containing nitrogen
122/24 . . . Esters containing sulfur
122/26 . . of unsaturated alcohols {(C08F 122/105 takes precedence)}
122/28 . . . Diallyl maleate
122/30 . Nitriles
122/32 . . Alpha-cyano-acrylic acid; Esters thereof
122/34 . . Vinylidene cyanide
122/36 . Amides or imides
122/38 . . Amides
122/385 . . . {Monomers containing two or more (meth)acrylamide groups, e.g. N,N'-methylenebisacrylamide}
122/40 . . Imides, e.g. cyclic imides

124/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (cyclic esters of polyfunctional acids C08F 118/00; cyclic anhydrides of unsaturated acids C08F 120/00, C08F 122/00)

126/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen

126/02 . by a single or double bond to nitrogen
126/04 . . Diallylamine
126/06 . by a heterocyclic ring containing nitrogen
126/08 . . N-Vinyl-pyrrolidine
126/10 . . N-Vinyl-pyrrolidone
126/12 . . N-Vinyl-carbazole

128/00 Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur

128/02 . by a bond to sulfur
128/04 . . Thioethers
128/06 . by a heterocyclic ring containing sulfur

130/00 **Homopolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing phosphorus, selenium, tellurium or a metal** (metal salts, e.g. phenolates or alcoholates, see the parent compounds)

130/02 . containing phosphorus
130/04 . containing a metal
130/06 . . containing boron
130/08 . . containing silicon
130/10 . . containing germanium

132/00 **Homopolymers of cyclic compounds containing no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic ring system**

132/02 . having no condensed rings
132/04 . . having one carbon-to-carbon double bond
132/06 . . having two or more carbon-to-carbon double bonds
132/08 . having condensed rings

134/00 **Homopolymers of cyclic compounds having no unsaturated aliphatic radicals in a side chain and having one or more carbon-to-carbon double bonds in a heterocyclic ring** (cyclic esters of polyfunctional acids C08F 118/00; cyclic anhydrides or imides C08F 122/00)

134/02 . in a ring containing oxygen
134/04 . in a ring containing sulfur

136/00 **Homopolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds** (C08F 132/00 takes precedence)

NOTE

In C08F 136/00 - C08F 136/22 the method of polymerisation may be indicated using the subdivision of C08F 2/00 - C08F 2/58 in the form of C-Sets; the nature of the catalyst may be indicated using the subdivision of C08F 4/00 - C08F 4/60, C08F 4/62, C08F 4/64, C08F 4/642, C08F 4/6421, C08F 4/643 or C08F 4/68 - C08F 4/82 in the form of C-Sets. Example: (C08F 136/18, C08F 2/26)

136/02 . the radical having only two carbon-to-carbon double bonds
136/04 . . conjugated
136/045 . . . {conjugated hydrocarbons other than butadiene or isoprene}
136/06 . . . Butadiene
136/08 . . . Isoprene
136/14 . . . containing elements other than carbon and hydrogen
136/16 . . . . containing halogen
136/18 . . . . . containing chlorine
136/20 . . unconjugated
136/22 . the radical having three or more carbon-to-carbon double bonds

138/00 **Homopolymers of compounds having one or more carbon-to-carbon triple bonds**

138/02 . Acetylene
138/04 . Vinylacetylene

Copolymers

210/00 **Copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond**

NOTE

In C08F 210/00 - C08F 210/18 the method of polymerisation or the nature of the catalyst may be indicated using the subdivision of C08F 2/00 - C08F 2/58 or of C08F 4/00 - C08F 4/82 in the form of C-Sets. Example: (C08F 210/06, C08F 4/04)

210/02 . Ethene
210/04 . Monomers containing three or four carbon atoms
210/06 . . Propene
210/08 . . Butenes
210/10 . . . Isobutene
210/12 . . . . with conjugated diolefins, e.g. butyl rubber
210/14 . Monomers containing five or more carbon atoms
210/16 . Copolymers of ethene with alpha-alkenes, e.g. EP rubbers
210/18 . . with non-conjugated dienes, e.g. EPT rubbers

212/00 **Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring**

NOTE

From April 2012 on, in groups C08F 212/00 - C08F 212/36 the method of polymerisation may be indicated using the subdivision of C08F 2/00 - C08F 2/60 in the form of C-Sets; the nature of the catalyst may be indicated using the subdivision of C08F 4/00 - C08F 4/82 in the form of C-Sets. Example: (C08F 212/08, C08F 4/16)

212/02 . Monomers containing only one unsaturated aliphatic radical
212/04 . . containing one ring
212/06 . . . Hydrocarbons
212/08 . . . . Styrene
212/10 . . . . . with nitriles
212/12 . . . . Monomers containing a branched unsaturated aliphatic radical or a ring substituted by an alkyl radical
212/14 . . . substituted by heteroatoms or groups containing heteroatoms
212/145 . . . . {the heteroatoms being part of ester groups derived from unsaturated acids}
212/32 . . containing two or more rings
212/34 . Monomers containing two or more unsaturated aliphatic radicals
212/36 . . Divinylbenzene

214/00 **Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen**

214/02 . Monomers containing chlorine
214/04 . . Monomers containing two carbon atoms
214/06 . . . Vinyl chloride
214/08 . . . Vinylidene chloride

214/10 . . . . with nitriles
214/12 . . . 1,2-Dichloroethene
214/14 . . Monomers containing three or more carbon atoms
214/16 . Monomers containing bromine or iodine
214/18 . Monomers containing fluorine
214/182 . . {Monomers containing fluorine not covered by the groups C08F 214/20 - C08F 214/28}
214/184 . . {with fluorinated vinyl ethers}
214/186 . . {with non-fluorinated comonomers}
214/188 . . . {with non-fluorinated vinyl ethers}
214/20 . . Vinyl fluoride
214/202 . . . {with fluorinated vinyl ethers}
214/205 . . . {with non-fluorinated comonomers}
214/207 . . . . {with non-fluorinated vinyl ethers}
214/22 . . Vinylidene fluoride
214/222 . . . {with fluorinated vinyl ethers}
214/225 . . . {with non-fluorinated comonomers}
214/227 . . . . {with non-fluorinated vinyl ethers}
214/24 . . Trifluorochloroethene
214/242 . . . {with fluorinated vinyl ethers}
214/245 . . . {with non-fluorinated comonomers}
214/247 . . . . {with non-fluorinated vinyl ethers}
214/26 . . Tetrafluoroethene
214/262 . . . {with fluorinated vinyl ethers}
214/265 . . . {with non-fluorinated comonomers}
214/267 . . . . {with non-fluorinated vinyl ethers}
214/28 . . Hexyfluoropropene
214/282 . . . {with fluorinated vinyl ethers}
214/285 . . . {with non-fluorinated comonomers}
214/287 . . . . {with non-fluorinated vinyl ethers}

216/00 Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal or ketal radical

216/02 . by an alcohol radical
216/04 . . Acyclic compounds
216/06 . . . Polyvinyl alcohol {; Vinyl alcohol}
216/08 . . . Allyl alcohol
2216/085 . . . . {Allyl alcohol alkoxylate}
216/10 . . Carbocyclic compounds
216/12 . by an ether radical
216/125 . . {monomers containing two or more unsaturated aliphatic radicals}
216/14 . . Monomers containing only one unsaturated aliphatic radical
216/1408 . . . {Monomers containing halogen}
216/1416 . . . {Monomers containing oxygen in addition to the ether oxygen}
2216/1425 . . . . {Monomers containing side chains of polyether groups}
2216/1433 . . . . . {Monomers containing side chains of polyethyleneoxide groups}
2216/1441 . . . . . {Monomers containing side chains of polypropyleneoxide groups}
2216/145 . . . . . {Monomers containing side chains of polyethylene-co-propyleneoxide groups}
216/1458 . . . {Monomers containing nitrogen}
216/1466 . . . {Monomers containing sulfur}
2216/1475 . . . . {Monomers containing sulfur and oxygen}
2216/1483 . . . . {Monomers containing sulfur and nitrogen}
2216/1491 . . . . {Monomers containing sulfur, oxygen and nitrogen}
216/16 . . . Monomers containing no hetero atoms other than the ether oxygen
216/165 . . . . {Carbocyclic compounds}
216/18 . . . . Acyclic compounds
216/20 . . . . . Monomers containing three or more carbon atoms in the unsaturated aliphatic radical
216/34 . by an aldehydo radical
216/36 . by a ketonic radical
216/38 . by an acetal or ketal radical

218/00 Copolymers having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid or of a haloformic acid

218/02 . Esters of monocarboxylic acids
218/04 . . Vinyl esters
218/06 . . . Vinyl formate
218/08 . . . Vinyl acetate
218/10 . . . of monocarboxylic acids containing three or more carbon atoms
218/12 . . with unsaturated alcohols containing three or more carbon atoms
218/14 . Esters of polycarboxylic acids
218/16 . . with alcohols containing three or more carbon atoms
218/18 . . . Diallyl phthalate
2218/20 . {Esters containing halogen}
2218/22 . {Esters containing nitrogen}
2218/24 . {Esters of carbonic or haloformic acids}
2218/245 . . {Esters of carbonic or haloformic acids, e.g. allyl carbonate}

220/00 Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and only one being terminated by only one carboxyl radical or a salt, anhydride ester, amide, imide or nitrile thereof

220/02 . Monocarboxylic acids having less than ten carbon atoms; Derivatives thereof
220/04 . . Acids; Metal salts or ammonium salts thereof
220/06 . . . Acrylic acid; Methacrylic acid; Metal salts or ammonium salts thereof
220/08 . . Anhydrides
220/10 . . Esters
220/12 . . . of monohydric alcohols or phenols
220/14 . . . . Methyl esters
220/16 . . . . of phenols or of alcohols containing two or more carbon atoms
220/18 . . . . . with acrylic or methacrylic acids
2220/1808 . . . . . {Ethyl or undefined short-chain (meth)acrylate}
2220/1816 . . . . . {Propyl(meth)acrylate}
2220/1825 . . . . . {Butyl(meth)acrylate}
2220/1833 . . . . . {Pentyl or undefined long chain (meth)acrylate}
2220/1841 . . . . . {Hexyl(meth)acrylate}
2220/185 . . . . . {Heptyl(meth)acrylate}
2220/1858 . . . . . {(iso)Octyl(meth)acrylate}

2220/1866 . . . . . {C9-(meth)Acrylate}
2220/1875 . . . . . {(iso)Decyl(meth)acrylate}
2220/1883 . . . . . {Lauryl(meth)acrylate}
2220/1891 . . . . . {Longer chain (meth)acrylate}
220/20 . . . of polyhydric alcohols or phenols
220/22 . . . Esters containing halogen
220/24 . . . . containing perhaloalkyl radicals
220/26 . . . Esters containing oxygen in addition to the carboxy oxygen
220/28 . . . . containing no aromatic rings in the alcohol moiety
2220/281 . . . . . {and containing only one oxygen}
2220/282 . . . . . {and containing two or more oxygen atoms}
2220/283 . . . . . {and containing one or more carboxylic moiety in the chain}
2220/285 . . . . . {and containing an ether chain in the alcohol moiety}
2220/286 . . . . . {and containing polyethylenoxide in the alcohol moiety}
2220/287 . . . . . {and containing polypropylenoxide in the alcohol moiety}
2220/288 . . . . . {and containing polypropylen-co-ethylen oxide in the alcohol moiety}
220/30 . . . . containing aromatic rings in the alcohol moiety
2220/301 . . . . . {and one oxygen in the alcohol moiety}
2220/302 . . . . . {and two or more oxygen atoms in the alcohol moiety}
2220/303 . . . . . {and one or more carboxylic moieties in the chain}
2220/305 . . . . . {and ether chain in the alcohol moiety}
2220/306 . . . . . {and polythylenoxide chain in the alcohol moiety}
2220/307 . . . . . {and polypropylene oxide chain in the alcohol moiety}
2220/308 . . . . . {and polyethylene-co-propylene oxide chain in the alcohol moiety}
220/32 . . . . containing epoxy radicals
2220/325 . . . . . {containing glycidyl radical}
220/34 . . . Esters containing nitrogen
2220/343 . . . . {in the form of urethane links}
2220/346 . . . . . {and further oxygen}
220/36 . . . . containing oxygen in addition to the carboxy oxygen
2220/365 . . . . . {containing further carboxylic moieties}
220/38 . . . Esters containing sulfur
2220/382 . . . . {and containing oxygen}
2220/385 . . . . {and containing nitrogen}
2220/387 . . . . {and containing nitrogen and oxygen}
220/40 . . . Esters of unsaturated alcohols
220/42 . . Nitriles
220/44 . . . Acrylonitrile
220/46 . . . . with carboxylic acids, sulfonic acids or salts thereof
220/48 . . . . with nitrogen-containing monomers
220/50 . . . containing four or more carbon atoms
220/52 . . Amides or imides
220/54 . . . Amides
220/56 . . . . Acrylamide; Methacrylamide
220/58 . . . . containing oxygen in addition to the carbonamido oxygen
2220/585 . . . . . {and containing other heteroatoms}
220/60 . . . . containing nitrogen in addition to the carbonamido nitrogen
2220/603 . . . . . {and containing oxygen in addition to the carbonamido oxygen and nitrogen}
2220/606 . . . . . {and containing other heteroatoms}
220/62 . Monocarboxylic acids having ten or more carbon atoms; Derivatives thereof (copolymers of drying oils C08F 242/00)
220/64 . . Acids; Metal salts or ammonium salts thereof
220/66 . . Anhydrides
220/68 . . Esters
220/70 . . Nitriles; Amides; Imides

222/00 Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical and containing at least one other carboxyl radical in the molecule; Salts, anhydrides, esters, amides, imides, or nitriles thereof

222/02 . Acids; Metal salts or ammonium salts thereof
222/04 . Anhydrides, e.g. cyclic anhydrides
222/06 . . Maleic anhydride
222/08 . . . with vinyl aromatic monomers
222/10 . Esters
222/1006 . . {of polyhydric alcohols or polyhydric phenols, e.g. ethylene glycol dimethacrylat}
2222/1013 . . . {of dialcohols}
2222/102 . . . . {of aromatic dialcohols}
2222/1026 . . . {of trialcohols}
2222/1033 . . . . {of aromatic trialcohols}
2222/104 . . . {of tetraalcohols}
2222/1046 . . . . {of aromatic tetraalcohols}
2222/1053 . . . {of pentaalcohols}
2222/106 . . . . {of aromatic pentaalcohols}
2222/1066 . . . {Esters of polycondensation macromers}
2222/1073 . . . . {of alcohol terminated polyesters or polycarbonates}
2222/108 . . . . {of alcohol terminated polyethers}
2222/1086 . . . . {of alcohol terminated (poly)urethanes}
2222/1093 . . . . {of alcohol terminated epoxy functional polymers}
222/12 . . of phenols or saturated alcohols {(C08F 222/1006 takes precedence)}
222/14 . . . Esters having no free carboxylic acid groups
2222/145 . . . . {the ester chains containing seven or more carbon atoms}
222/16 . . . Esters having free carboxylic acid groups
2222/165 . . . . {the ester chains containing seven or more carbon atoms}
222/18 . . . Esters containing halogen
2222/185 . . . . {the ester chains containing seven or more carbon atoms}
222/20 . . . Esters containing oxygen in addition to the carboxy oxygen
2222/205 . . . . {the ester chains containing seven or more carbon atoms}
222/22 . . . Esters containing nitrogen
2222/225 . . . . {the ester chains containing seven or more carbon atoms}
222/24 . . . Esters containing sulfur
2222/245 . . . . {the ester chains containing seven or more carbon atoms}

222/26 . . of unsaturated alcohols {(C08F 222/1006 takes precedence)}
222/28 . . . Diallyl maleate
222/30 . Nitriles
222/32 . . Alpha-cyano-acrylic acid; Esters thereof
2222/321 . . . {alpha-Cyano-acrylic acid methyl ester}
2222/322 . . . {alpha-Cyano-acrylic acid ethyl ester}
2222/323 . . . {alpha-Cyano-acrylic acid propyl ester}
2222/324 . . . {alpha-Cyano-acrylic acid butyl ester}
2222/325 . . . {alpha-Cyano-acrylic acid pentyl ester}
2222/326 . . . {alpha-Cyano-acrylic acid longer chain ester}
2222/327 . . . {alpha-Cyano-acrylic acid alkoxy ester}
2222/328 . . . {alpha-Cyano-acrylic acid with more than one oxygen in the ester moiety}
222/34 . . Vinylidene cyanide
222/36 . Amides or imides
222/38 . . Amides
222/385 . . . {Monomers containing two or more (meth)acrylamide groups, e.g. N,N'-methylenebisacrylamide}
222/40 . . Imides, e.g. cyclic imides
2222/402 . . . {Alkyl substituted imides}
2222/404 . . . {the substituted imides comprising oxygen other than the carboxy oxygen}
2222/406 . . . {the substituted imides comprising nitrogen other than the imide nitrogen}
2222/408 . . . {the substituted imides comprising other heteroatom}

224/00 Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (cyclic esters of polyfunctional acids C08F 218/00; cyclic anhydrides of unsaturated acids C08F 220/00, C08F 222/00)

226/00 Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen

226/02 . by a single or double bond to nitrogen
226/04 . . Diallylamine
226/06 . by a heterocyclic ring containing nitrogen
226/08 . . N-Vinyl-pyrrolidine
226/10 . . N-Vinyl-pyrrolidone
226/12 . . N-Vinylcarbazole

228/00 Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur

228/02 . by a bond to sulfur
228/04 . . Thioethers
228/06 . by a heterocyclic ring containing sulfur

230/00 Copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing phosphorus, selenium, tellurium or a metal (metal salts, e.g. phenolates or alcoholates, see the parent compounds)

230/02 . containing phosphorus
230/04 . containing a metal
230/06 . . containing boron
2230/065 . . . {the monomer being a polymerisable additive}
230/08 . . containing silicon
2230/085 . . . {the monomer being a polymerisable additive}
230/10 . . containing germanium

232/00 Copolymers of cyclic compounds containing no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic ring system

232/02 . having no condensed rings
232/04 . . having one carbon-to-carbon double bond
232/06 . . having two or more carbon-to-carbon double bonds
232/08 . having condensed rings (coumarone-indene polymers C08F 244/00)

234/00 Copolymers of cyclic compounds having no unsaturated aliphatic radicals in a side chain and having one or more carbon-to-carbon double bonds in aheterocyclic ring (cyclic esters of polyfunctional acids C08F 218/00; cyclic anhydrides or imides C08F 222/00)

234/02 . in a ring containing oxygen (coumarone-indene polymers C08F 244/00)
234/04 . in a ring containing sulfur

236/00 Copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds (C08F 232/00 takes precedence)

NOTE

In C08F 236/00 - C08F 236/22 the method of polymerisation may be indicated using the subdivision of C08F 2/00 - C08F 2/58 in the form of C-Sets; the nature of the catalyst may be indicated using the subdivision of C08F 4/00 - C08F 4/60, C08F 4/62, C08F 4/64, C08F 4/642, C08F 4/6421, C08F 4/643 or C08F 4/68 - C08F 4/82 in the form of C-Sets. Example: (C08F 236/10, C08F 4/46)

236/02 . the radical having only two carbon-to-carbon double bonds
236/04 . . conjugated
236/045 . . . {conjugated hydrocarbons other than butadiene or isoprene}
236/06 . . . Butadiene
236/08 . . . Isoprene
236/10 . . . with vinyl-aromatic monomers
236/12 . . . with nitriles
236/14 . . . containing elements other than carbon and hydrogen
236/16 . . . . containing halogen
236/18 . . . . . containing chlorine
236/20 . . unconjugated
236/22 . the radical having three or more carbon-to-carbon double bonds

238/00 Copolymers of compounds having one or more carbon-to-carbon triple bonds

238/02 . Acetylene
238/04 . Vinylacetylene

240/00 **Copolymers of hydrocarbons and mineral oils, e.g. petroleum resins**

242/00 **Copolymers of drying oils with other monomers**

244/00 **Coumarone-indene copolymers**

246/00 **Copolymers in which the nature of only the monomers in minority is defined**

Graft polymers; Polymers crosslinked with unsaturated monomers

NOTE

In C08F 251/00 - C08F 292/00 the grafted monomer may be indicated using the subdivision of C08F 210/00 - C08F 238/04 preceded by a "+" sign.

Example:

C08F 265/06 + C08F 220/06

251/00 **Macromolecular compounds obtained by polymerising monomers on to polysaccharides or derivatives thereof**

251/02 . on to cellulose or derivatives thereof

253/00 **Macromolecular compounds obtained by polymerising monomers on to natural rubbers or derivatives thereof**

255/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of hydrocarbons as defined in group C08F 10/00**

255/02 . on to polymers of olefins having two or three carbon atoms

255/023 . . {On to modified polymers, e.g. chlorinated polymers}

255/026 . . {on to ethylene-vinylester copolymers}

255/04 . . on to ethene-propene copolymers {(C08F 255/023 takes precedence)}

255/06 . . on to ethene-propene-diene terpolymers {(C08F 255/023 takes precedence)}

255/08 . on to polymers of olefins having four or more carbon atoms

255/10 . . on to butene polymers

257/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of aromatic monomers as defined in group C08F 12/00**

257/02 . on to polymers of styrene or alkyl-substituted styrenes

259/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of halogen containing monomers as defined in group C08F 14/00**

259/02 . on to polymers containing chlorine

259/04 . . on to polymers of vinyl chloride

259/06 . . on to polymers of vinylidene chloride

259/08 . on to polymers containing fluorine

261/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of oxygen-containing monomers as defined in group C08F 16/00**

261/02 . on to polymers of unsaturated alcohols

261/04 . . on to polymers of vinyl alcohol

261/06 . on to polymers of unsaturated ethers

261/08 . on to polymers of unsaturated aldehydes

261/10 . on to polymers of unsaturated ketones

261/12 . on to polymers of unsaturated acetals or ketals

263/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of esters of unsaturated alcohols with saturated acids as defined in group C08F 18/00**

263/02 . on to polymers of vinyl esters with monocarboxylic acids

263/04 . . on to polymers of vinyl acetate

263/06 . on to polymers of esters with polycarboxylic acids

263/08 . . Polymerisation of diallyl phthalate prepolymers

265/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of unsaturated monocarboxylic acids or derivatives thereof as defined in group C08F 20/00**

265/02 . on to polymers of acids, salts or anhydrides

265/04 . on to polymers of esters

265/06 . . Polymerisation of acrylate or methacrylate esters on to polymers thereof

NOTE

In C08F 265/06 the method of polymerisation may be indicated using the subdivision of C08F 2/02, C08F 2/16, C08F 2/18 or C08F 2/22 in the form of C-Sets. Example: (C08F 265/06, C08F 2/16)

265/08 . on to polymers of nitriles

265/10 . on to polymers of amides or imides

267/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of unsaturated polycarboxylic acids or derivatives thereof as defined in group C08F 22/00**

267/02 . on to polymers of acids or salts

267/04 . on to polymers of anhydrides

267/06 . on to polymers of esters

267/08 . on to polymers of nitriles

267/10 . on to polymers of amides or imides

269/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of heterocyclic oxygen-containing monomers as defined in group C08F 24/00**

271/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of nitrogen-containing monomers as defined in group C08F 26/00**

271/02 . on to polymers of monomers containing heterocyclic nitrogen

273/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of sulfur-containing monomers as defined in group C08F 28/00**

275/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of monomers containing phosphorus, selenium, tellurium or a metal as defined in group C08F 30/00**

277/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of carbocyclic or heterocyclic monomers as defined respectively in group C08F 32/00 or in group C08F 34/00**

279/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of monomers having two or more carbon-to-carbon double bonds as defined in group C08F 36/00**

NOTE

In C08F 279/02 and C08F 279/04 the method of polymerisation may be indicated using the subdivision of C08F 2/02, C08F 2/16, C08F 2/18 or C08F 2/22 in the form of C-Sets. Example: (C08F 279/02, C08F 2/22)

279/02 . on to polymers of conjugated dienes

279/04 . . Vinyl aromatic monomers and nitriles as the only monomers

279/06 . . Vinyl aromatic monomers and methacrylates as the only monomers

281/00 **Macromolecular compounds obtained by polymerising monomers on to polymers of monomers having carbon-to-carbon triple bonds as defined in group C08F 38/00**

283/00 **Macromolecular compounds obtained by polymerising monomers on to polymers provided for in subclass C08G {(on to polymers modified by introduction of aliphatic unsaturated end or side groups C08F 290/00)}**

283/002 . {on to polymers modified by after-treatment}

283/004 . . {modified by incorporation of silicium atoms}

283/006 . {on to polymers provided for in C08G 18/00 (C08F 283/004 takes precedence)}

283/008 . . {on to unsaturated polymers}

283/01 . on to unsaturated polyesters {(C08F 283/004 takes precedence)}

NOTE

After the symbol of group C08F 283/01 - C08F 283/14 and using the C-Sets, notations concerning the method of polymerisation or the nature of the catalyst can be indicated. These notations are selected from groups C08F 2/00, C08F 2/16, C08F 2/46, C08F 2/48, C08F 2/50, C08F 4/00, C08F 4/04, C08F 4/06, C08F 4/28 and C08F 4/42. Example: (C08F 283/01, C08F 2/16)

283/02 . on to polycarbonates or saturated polyesters {(C08F 283/004 takes precedence)}

283/04 . on to polycarbonamides, polyesteramides or polyimides {(C08F 283/004 takes precedence)}

283/045 . . {on to unsaturated polycarbonamides, polyesteramides or polyimides}

283/06 . on to polyethers, polyoxymethylenes or polyacetals {(C08F 283/004 takes precedence)}

283/065 . . {on to unsaturated polyethers, polyoxymethylenes or polyacetals}

283/08 . . on to polyphenylene oxides

283/085 . . . {on to unsaturated polyphenylene oxides}

283/10 . on to polymers containing more than one epoxy radical per molecule {(C08F 283/004 takes precedence)}

283/105 . . {on to unsaturated polymers containing more than one epoxy radical per molecule}

283/12 . on to polysiloxanes

283/122 . . {on to saturated polysiloxanes containing hydrolysable groups, e.g. alkoxy-, thio-, hydroxy-}

283/124 . . {on to polysiloxanes having carbon-to-carbon double bonds}

283/126 . . {on to polysiloxanes being the result of polycondensation and radical polymerisation reactions}

283/128 . . {on to reaction products of polysiloxanes having at least one Si-H bond and compounds having carbon-to-carbon double bonds}

283/14 . on to polymers obtained by ring-opening polymerisation of carbocyclic compounds having one or more carbon-to-carbon double bonds in the carbocyclic ring, i.e. polyalkeneamers {(C08F 283/004 takes precedence)}

285/00 **Macromolecular compounds obtained by polymerising monomers on to preformed graft polymers {(C08F 283/00 takes precedence)}**

287/00 **Macromolecular compounds obtained by polymerising monomers on to block polymers {(C08F 283/00 takes precedence)}**

289/00 **Macromolecular compounds obtained by polymerising monomers on to macromolecular compounds not provided for in groups C08F 251/00 - C08F 287/00**

290/00 **Macromolecular compounds obtained by polymerising monomers on to polymers modified by introduction of aliphatic unsaturated end or side groups**

290/02 . on to polymers modified by introduction of unsaturated end groups

290/04 . . Polymers provided for in subclasses C08C or C08F

290/042 . . . {Polymers of hydrocarbons as defined in group C08F 10/00}

290/044 . . . {Polymers of aromatic monomers as defined in group C08F 12/00}

290/046 . . . {Polymers of unsaturated carboxylic acids or derivatives thereof}

290/048 . . . {Polymers of monomers having two or more carbon-to-carbon double bonds as defined in group C08F 36/00}

290/06 . . Polymers provided for in subclass C08G

290/061 . . . {Polyesters; Polycarbonates}

290/062 . . . {Polyethers}

290/064 . . . {Polymers containing more than one epoxy group per molecule}

290/065 . . . {Polyamides; Polyesteramides; Polyimides}

290/067 . . . {Polyurethanes; Polyureas}

290/068 . . . {Polysiloxanes}

290/08 . on to polymers modified by introduction of unsaturated side groups

290/10 . . Polymers provided for in subclass C08B

290/12 . . Polymers provided for in subclasses C08C or C08F

290/122 . . . {Polymers of hydrocarbons as defined in group C08F 10/00}
290/124 . . . {Polymers of aromatic monomers as defined in group C08F 12/00}
290/126 . . . {Polymers of unsaturated carboxylic acids or derivatives thereof}
290/128 . . . {Polymers of monomers having two or more carbon-to-carbon double bonds as defined in group C08F 36/00}
290/14 . . Polymers provided for in subclass C08G
290/141 . . . {Polyesters; Polycarbonates}
290/142 . . . {Polyethers}
290/144 . . . {Polymers containing more than one epoxy group per molecule}
290/145 . . . {Polyamides; Polyesteramides; Polyimides}
290/147 . . . {Polyurethanes; Polyureas}
290/148 . . . {Polysiloxanes}

291/00 Macromolecular compounds obtained by polymerising monomers on to macromolecular compounds according to more than one of the groups C08F 251/00 - C08F 289/00

NOTE

In C08F 291/00 the method of polymerisation may be indicated using the subdivision of C08F 2/02, C08F 2/16, C08F 2/18 or C08F 2/22 in the form of C-Sets. Example: (C08F 291/00, C08F 2/16)

291/02 . on to elastomers
291/04 . on to halogen-containing macromolecules
291/06 . on to oxygen-containing macromolecules
291/08 . . on to macromolecules containing hydroxy radicals
291/10 . . on to macromolecules containing epoxy radicals
291/12 . on to nitrogen-containing macromolecules
291/14 . on to sulfur-containing macromolecules
291/16 . on to macromolecules containing more than two metal atoms
291/18 . on to irradiated or oxidised macromolecules (epoxidised C08F 291/10)
291/185 . . {The monomer(s) not being present during the irradiation or the oxidation of the macromolecule}

292/00 Macromolecular compounds obtained by polymerising monomers on to inorganic materials

Block polymers

293/00 Macromolecular compounds obtained by polymerisation on to a macromolecule having groups capable of inducing the formation of new polymer chains bound exclusively at one or both ends of the starting macromolecule (on to polymers modified by introduction of unsaturated end groups C08F 290/02)

293/005 . {using free radical "living" or "controlled" polymerisation, e.g. using a complexing agent}

295/00 Macromolecular compounds obtained by polymerisation using successively different catalyst types without deactivating the intermediate polymer

297/00 Macromolecular compounds obtained by successively polymerising different monomer systems using a catalyst of the ionic or coordination type without deactivating the intermediate polymer

297/02 . using a catalyst of the anionic type
297/023 . . {using a coupling agent}
297/026 . . {polymerising acrylic acid, methacrylic acid or derivatives thereof}
297/04 . . polymerising vinyl aromatic monomers and conjugated dienes
297/042 . . . {using a polyfunctional initiator}
297/044 . . . {using a coupling agent}
297/046 . . . {polymerising vinyl aromatic monomers and isoprene, optionally with other conjugated dienes}
297/048 . . . {polymerising vinyl aromatic monomers, conjugated dienes and polar monomers}
297/06 . using a catalyst of the coordination type
297/08 . . polymerising mono-olefins
297/083 . . . {the monomers being ethylene or propylene}
297/086 . . . . {the block polymer contains at least three blocks}

299/00 Macromolecular compounds obtained by interreacting polymers involving only carbon-to-carbon unsaturated bond reactions, in the absence of non-macromolecular monomers (in the presence of non-macromolecular monomers C08F 251/00 - C08F 291/00; involving other reactions C08G 81/00)

299/02 . from unsaturated polycondensates
299/022 . . {from polycondensates with side or terminal unsaturations}
299/024 . . . {the unsaturation being in acrylic or methacrylic groups}
299/026 . . {from the reaction products of polyepoxides and unsaturated monocarboxylic acids, their anhydrides, halogenides or esters with low molecular weight}
299/028 . . . {photopolymerisable compositions}
299/04 . . from polyesters
299/0407 . . . {Processes of polymerisation}
299/0414 . . . . {Suspension or emulsion polymerisation}
299/0421 . . . . {Polymerisation initiated by wave energy or particle radiation}
299/0428 . . . . . {by ultra-violet or visible light}
299/0435 . . . . . {with sensitising agents}
299/0442 . . . {Catalysts}
299/045 . . . . {Peroxy-compounds}
299/0457 . . . . {Nitrogen containing compounds}
299/0464 . . . . {Metals or metal containing compounds}
299/0471 . . . . {Other compounds}
299/0478 . . . {Copolymers from unsaturated polyesters and low molecular monomers characterised by the monomers used}
299/0485 . . . {from polyesters with side or terminal unsaturations}
299/0492 . . . . {the unsaturation being in acrylic or methacrylic groups}
299/06 . . from polyurethanes
299/065 . . . {from polyurethanes with side or terminal unsaturations}

299/08 . . from polysiloxanes

301/00 Macromolecular compounds not provided for in groups C08F 10/00 - C08F 299/00

2400/00 Characteristics for processes of polymerization
2400/02 . Control or adjustment of polymerization parameters

2410/00 Catalyst preparation (not used)
2410/01 . Additive used together with the catalyst, excluding compounds containing Al or B
2410/02 . Anti-static agent incorporated into the catalyst
2410/03 . Multinuclear procatalyst, i.e. containing two or more metals, being different or not
2410/04 . Dual catalyst, i.e. use of two different catalysts, where none of the catalysts is a metallocene
2410/05 . Transitioning, i.e. transition from one catalyst to another with use of a deactivating agent

2420/00 Metallocene catalysts (not used)
2420/01 . Cp or analog bridged to a non-Cp X neutral donor
2420/02 . Cp or analog bridged to a non-Cp X anionic donor
2420/03 . Cp or analog not bridged to a non-Cp X ancillary neutral donor
2420/04 . Cp or analog not bridged to a non-Cp X ancillary anionic donor
2420/05 . Cp or analog where at least one of the carbon atom of the Cp ring is replaced by a heteroatom
2420/06 . Cp or analog where at least one of the carbon atoms of the ring is replaced by a heteroatom

2438/00 Living radical polymerisation
2438/01 . Atom Transfer Radical Polymerization [ATRP] or reverse ATRP
2438/02 . Stable Free Radical Polymerisation [SFRP]; Nitroxide Mediated Polymerisation [NMP] for, e.g. using 2,2,6,6-tetramethylpiperidine-1-oxyl [TEMPO]
2438/03 . Use of a di- or tri-thiocarbonylthio compound, e.g. di- or tri-thioester, di- or tri-thiocarbamate, or a xanthate as chain transfer agent, e.g . Reversible Addition Fragmentation chain Transfer [RAFT] or Macromolecular Design via Interchange of Xanthates [MADIX]

2500/00 Characteristics or properties of obtained polymers; Use thereof (not used)
2500/01 . High molecular weight
2500/02 . Low molecular weight
2500/03 . Narrow molecular weight distribution
2500/04 . Broad molecular weight distribution
2500/05 . Bimodal or multimodal molecular weight distribution
2500/06 . Narrow composition distribution
2500/07 . High density
2500/08 . Low density
2500/09 . Long chain branches
2500/10 . Short chain branches
2500/11 . Melt tension or melt strength
2500/12 . Melt flow index or melt flow ratio
2500/13 . Environmental stress cracking resistance
2500/14 . Die swell or die swell ratio or swell ratio
2500/15 . Isotactic
2500/16 . Syndiotactic
2500/17 . Viscosity
2500/18 . Bulk density
2500/19 . Shear ratio or shear ratio index
2500/20 . Activation energy or enthalpy
2500/21 . Rubbery or elastomeric properties
2500/22 . Sticky polymer
2500/23 . Waxy properties
2500/24 . Polymer with special particle form or size
2500/25 . Cycloolefine
2500/26 . Use as polymer for film forming

2800/00 Copolymer characterised by the proportions of the comonomers expressed (not used)
2800/10 . as molar percentages
2800/20 . as weight or mass percentages

2810/00 Chemical modification of a polymer (not used)
2810/10 . including a reactive processing step which leads, inter alia, to morphological and/or rheological modifications, e.g. visbreaking
2810/20 . leading to a crosslinking, either explicitly or inherently
2810/30 . leading to the formation or introduction of aliphatic or alicyclic unsaturated groups
2810/40 . taking place solely at one end or both ends of the polymer backbone, i.e. not in the side or lateral chains
2810/50 . wherein the polymer is a copolymer and the modification is taking place only on one or more of the monomers present in minority