CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY
  (NOTES omitted)

CHEMISTRY

C09 DYES; PAINTS; POLISHES; NATURAL RESINS; ADHESIVES; COMPOSITIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR

C09D COATING COMPOSITIONS, e.g. PAINTS, VARNISHES OR LACQUERS; FILLING PASTES; CHEMICAL PAINT OR INK REMOVERS; INKS; CORRECTING FLUIDS; WOODSTAINS; PASTES OR SOLIDS FOR COLOURING OR PRINTING; USE OF MATERIALS THEREFOR (cosmetics A61K; processes for applying liquids or other fluent materials to surfaces, in general, B05D; staining wood B27K 5/02; glazes or vitreous enamels C03C; organic macromolecular compounds C08; organic dyes or closely-related compounds for producing dyes, mordants or lakes, per se, C09B; treatment of inorganic materials other than fibrous fillers used as pigments or fillers C09C; natural resins, French polish, drying-oils, driers, turpentine, per se, C09F; polishing compositions other than French polish, ski waxes C09G; preparation of glue or gelatine C09H; { C08H 1/06 } ; adhesives or use of materials as adhesives C09J; materials for sealing or packing joints or covers C09K 3/10; materials for stopping leaks C09K 3/12; processes for the electrolytic or electrophoretic production of coatings C25D; textile-treating compositions D06; paper-making D21; conductors, insulators H01B)

NOTES

1. In this subclass, the following terms or expressions are used with the meanings indicated:
   • “use of materials for coating compositions” means the use of known or new polymers or products;
   • “rubber” includes:
     a. natural or conjugated diene rubbers;
     b. rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for coating compositions based on such macromolecular compounds);
   • “based on” is defined by means of Note 3, below;
   • “filling pastes” means materials used to fill up the holes or cavities of a substrate in order to smooth its surface prior to coating.

2. In this subclass, coating compositions containing specific macromolecular substances are classified only according to the macromolecular substance, non-macromolecular substances not being taken into account.
   Example: a coating composition containing polyethene and amino-propyltrimethoxysilane is classified in group C09D 123/06.
   However, coating compositions containing combinations of organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond with prepolymers or polymers other than unsaturated polymers of groups C09D 159/00 - C09D 187/00 are classified according to the unsaturated non-macromolecular component in group C09D 4/00.
   Example: a coating composition containing polyethylene and styrene monomer is classified in group C09D 4/06.
   Aspects relating to the physical nature of the coating compositions or to the effects produced, as defined in group C09D 5/00, if clearly and explicitly stated, are also classified in this subclass.
   Coating compositions characterised by other features, e.g. additives, are classified in group C09D 7/00, unless the macromolecular constituent is specified.

3. In this subclass, coating compositions comprising two or more macromolecular constituents are classified according to the macromolecular constituent or constituents present in the highest proportion, i.e. the constituent on which the composition is based. If the composition is based on two or more constituents, present in equal proportions, the composition is classified according to each of these constituents.
   Examples:
   A coating composition containing 80 parts of polyethylene and 20 parts of polyvinylchloride is classified in group C09D 123/06;
   A coating composition containing 40 parts of polyethylene and 40 parts of polyvinylchloride is classified in groups C09D 123/06 and C09D 127/06.
C09D

(continued)

4. Documents classified up until 04.2012: after the notation of group C09D 4/06, and separated therefrom by a + sign, notations concerning the macromolecular compound may be added. The notations are selected from the main groups C08F 251/00 - C08F 291/00 and from the subgroups of C08F 290/00 - C08F 290/04 and C08F 290/08 - C08F 290/12. Example: a paint based on a mixture of methylvinyleylate monomer and a polymer of vinylchloride is classified in C09D 4/06 + C08F 259/04.

5. From April 2012 onwards, after the notation C09D 4/00, classification concerning the monomer may be added, in the form of C-sets. The notation is selected from C08F 210/00 - C08F 246/00, C08G 77/00 - C08G 77/04 or C08G 77/20 - C08G 77/30. Ex.: A paint based on a mixture of methylvinyleylate monomer and a polymer of vinylchloride is classified ( C09D 4/06, C08F 259/04 ).

6. Documents classified up until 09-2003: Classification is given in the form of C-Sets. The polymer in majority is given a C09D symbol, and the minor components are characterised by Indexing Codes taken from the list below. The Indexing Codes are linked. The polymer in majority is always first in the C-set. List of C08L codes: C08L 23/00, C08L 23/26, C08L 25/00, C08L 27/00, C08L 27/04, C08L 27/12, C08L 29/00, C08L 31/00, C08L 33/00, C08L 35/00, C08L 37/00, C08L 51/00, C08L 53/00, C08L 55/02, C08L 61/04, C08L 61/20, C08L 63/00, C08L 67/00, C08L 67/02, C08L 67/05, C08L 67/04, C08L 67/06, C08L 67/07, C08L 69/00, C08L 69/05, C08L 71/00, C08L 75/04, C08L 77/00, C08L 77/08, C08L 77/12, C08L 79/08, C08L 79/085, C08L 81/00, C08L 83/00, C08L 85/00, C08L 91/06, C08L 95/00 or C08L 2666/00 - C08L 266686. Documents from group C09D 123/00 - C09D 123/36, C09D 145/00 - C09D 145/02 and C09D 149/00 have all been reclassified following Note 3 below. An additive is classified in the last appropriate place in the list as selected for each C09D group. Examples:

a. A coating composition based on a polyamide and a graft polymer is classified in ( C09D 177/00, C08L 2666/24).
b. A coating composition based on polyvinylchloride and containing CaCO3 is classified according to note 4 of C08K, i.e. in C08K 3/26 and C09D 127/06. If this coating composition contains also a polyamide, then the classification will be ( C09D 177/06, C08L 77/00, C08L 3/26).
c. A coating composition based on a polysiloxane ( C09D 183/04) and containing a second polysiloxane, a phenol and silica is classified in ( C09D 183/04, C08L 83/04, C08L 2666/34, C08L 2666/54).

7. From 01.09.2003 until April 2012: Classification is given in the form of C-Sets. The polymer in majority is given a C09D symbol, and the minor components are characterised by Indexing Codes taken from C08L or C08K and they are linked or unlinked. The polymer in majority is always first in the C-set. List of indexing codes in the C-Sets: C08L 1/00, C08L 81/00, C08L 83/00, C08L 91/06, C08L 95/00 or C08L 2666/02 - C08L 2666/08, C08L 2666/14 - C08L 2666/26. Examples:

a. A coating of 60 parts polyvinylchloride ( C09D 127/06) and 40 parts polyamide is classified in ( C09D 127/06, C08L 2666/20, C08L 77/00).
b. A coating of 50 parts polyvinylchloride ( C09D 127/06) and 50 parts polyamide ( C09D 177/00) is classified in ( C09D 127/06, C08L 2666/20), and C08L 77/00, as well as ( C09D 177/00, C08L 2666/04) and C08L 27/06.
c. A coating composition based on polyvinylchloride and containing CaCO3 is classified according to [N: Note 4 of C08K, i.e. in C08K 3/26, C09D 127/06]. If this composition contains also a polyamide, then the classification will be ( C09D 127/06, C08L 2666/20) and C08K 3/26.
d. A composition based on a first polysiloxane ( C09D 183/04) and containing a second polysiloxane, a phenol and silica is classified in ( C09D 183/04, C08L 83/00, C08K 5/13, C08K 3/36) and C08L 2205/02.

8. From April 2012 onwards, after the notation of groups C09D 101/00 - C09D 201/00, notations concerning the other constituents of the coating composition may be added, in the form of C-Sets. The further constituent is added with an indexing code. The indexing codes are chosen from C08L 1/00 - C08L 255/86 or C08K and they may be linked or unlinked: - C08L 1/00 - C08L 101/10 are linked. - C08L 2201/00 - C08L 255/86 are unlinked. The polymer in majority is always first in the C-set. Examples:

a. A coating composition containing polyethylene and amino-allyltrimethoxysilane is classified in groups C09D 123/06 and C08K 5/544 (unlinked).
b. A coating composition containing 80 parts of polyethylene and 20 parts of polyvinylchloride is classified in ( C09D 123/06, C08L 27/06).
c. A coating composition containing 40 parts of polyethylene and 40 parts of polyvinylchloride is classified in ( C09D 123/06, C08L 27/06) and ( C09D 127/06, C08L 23/06).
d. A coating composition containing 90% of polysiloxane ( C09D 183/04) further containing 10% of polyester ( C08L 67/00) and an alcohol is classified in ( C09D 183/04, C08L 67/00, C08K 5/05).

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

**C09D 4/02** covered by C09D 4/00, C08F 22000

**C09D 4/04** covered by C09D 4/00, C08F 22200

**C09D 5/23** covered by H01F 41/16

**C09D 5/25** covered by H01B 3/308

**C09D 5/33** covered by C09D 5/004

**C09D 5/46** covered by C09D 5/03

**C09D 161/08, C09D 161/10** covered by C09D 161/06

**C09D 163/02** covered by C09D 163/00

**C09D 171/08** covered by C09D 171/02

**C09D 171/10** covered by C09D 171/12
C09D

Coating compositions, e.g. paints, varnishes or lacquers, based on inorganic substances (C04B takes precedence; glazes or vitreous enamels C03C)

1/00

Coating compositions, e.g. paints, varnishes or lacquers, based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond

1/02 . alkali metal silicates
1/04 . . with organic additives
1/06 . cement
1/08 . . with organic additives
1/10 . lime
1/12 . . with organic additives

4/00

Coating compositions, e.g. paints, varnishes or lacquers, based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond

4/06 . (Organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond) in combination with a macromolecular compound other than an unsaturated polymer of groups C09D 159/00 - C09D 187/00

5/00

Coating compositions, e.g. paints, varnishes or lacquers, characterised by their physical nature or the effects produced; Filling pastes

5/02 . Emulsion paints (including aerosols)
5/021 . . (Aerosols (aerosol compositions C09K 3/30))
5/022 . . . (Emulsions, e.g. oil in water)
5/024 . . . [characterised by the additives]
5/025 . . . . [Preservatives, e.g. antimicrobial agents]
5/027 . . . . [Dispersion agents (anti-settling agents C09D 7/45)]
5/028 . . . . [Pigments; Filters]
5/03 . Powdery paints
5/031 . . [characterised by particle size or shape]
5/032 . . . [characterised by a special effect of the produced film, e.g. wrinkle, pearlescence, matt finish]
5/033 . . . [characterised by the additives]
5/034 . . . . [Charge control agents (for toners C03G 9/097)]
5/035 . . . . [Coloring agents, e.g. pigments (C09D 5/032 takes precedence)]
5/036 . . . . [Stabilisers (organic stabilisers for paints C09D 7/48)]
5/037 . . . . [Rheology improving agents, e.g. flow control agents]
5/038 . . . [Anticorrosion agents]
5/04 . Thixotropic paints

5/06 . Artists' paints
5/08 . Anti-corrosive paints
5/082 . . . [characterised by the anti-corrosive pigment]
5/084 . . . [Inorganic compounds]
5/086 . . . [Organic or non-macromolecular compounds]
5/088 . . . [Autophoretic paints]
5/10 . . containing metal dust
5/103 . . . [containing Al]
5/106 . . . [containing Zn]
5/12 . . Wash primers
5/14 . . Paints containing biocides, e.g. fungicides, insecticides or pesticides (C09D 5/16 takes precedence)
5/16 . . Antifouling paints: Underwater paints
5/1606 . . . [characterised by the anti-fouling agent]
5/1612 . . . [Non-macromolecular compounds]
5/1618 . . . . [organic]
5/1625 . . . . [organic]
5/1631 . . . . . [Organotin compounds]
5/1637 . . . . . [Macromolecular compounds]
5/1643 . . . . . [containing tin]
5/165 . . . . . [containing hydrolysable groups (C09D 5/1643 takes precedence)]
5/1656 . . . . [characterised by the film-forming substance (C09D 5/1637 takes precedence)]
5/1662 . . . . [Synthetic film-forming substance]
5/1668 . . . . [Vinyl-type polymers]
5/1675 . . . . . [Polyorganosiloxane-containing compositions]
5/1681 . . . [Antifouling coatings characterised by surface structure, e.g. for roughness effect giving superhydrophobic coatings or Lotus effect]
5/1687 . . . . [Use of special additives]
5/1693 . . . . [as part of a multilayer system]
5/18 . Fireproof paints [including high temperature resistant paints]
5/185 . . . [Intumescent paints]
5/20 . . for coatings strippable as coherent films, e.g. temporary coatings strippable as coherent films
5/22 . . Luminous paints ([luminous compositions C09K 11/00])
5/23 . . Magnetisable or magnetic paints or lacquers
5/24 . . Electrically-conducting paints ([conductive materials H01B 1/00])
5/26 . . Thermosensitive paints
5/28 . . for wrinkle, crinkle, orange-peel, or similar decorative effects
5/29 . . . for multicoleour effects
5/30 . . Camouflage paints
5/32 . . Radiation-absorbing paints ([protection against X-, gamma- or corpuscular radiation G21F])
5/34 . . Filling pastes (materials for sealing or packing joints or covers C09K 3/10; materials for stopping leaks C09K 3/12)
5/36 . . Pearl essence, e.g. coatings containing platelet-like pigments for pearl lustre
7/40

7/20

7/00

features of coating compositions, not provided for in group C09D 5/00 (driers C09F 9/00); Processes for incorporating ingredients in coating compositions

7/44

for electrophoretic applications (processes for coating by electrophoresis C25D 13/00)

NOTE

The groups C09D 5/4403 - C09D 5/4476 relating to paints based on a specified film-forming polymer or mixture of polymers take precedence over the groups C09D 5/4448 - C09D 5/4496 relating to paints characterised by other features

7/41

7/20

Organic pigments; Organic dyes

WARNING

Group C09D 7/41 is incomplete pending reclassification of documents from groups C09D 7/60, C09D 7/61, C09D 7/62, C09D 7/63, C09D 7/65 and C09D 7/70.

All groups listed in this Warning should be considered in order to perform a complete search.

7/42

Gloss-reducing agents

WARNING

Group C09D 7/42 is incomplete pending reclassification of documents from groups C09D 7/60, C09D 7/61, C09D 7/62, C09D 7/63, C09D 7/65 and C09D 7/70.

All groups listed in this Warning should be considered in order to perform a complete search.

7/43

Thickening agents

WARNING

Group C09D 7/43 is incomplete pending reclassification of documents from groups C09D 7/60, C09D 7/61, C09D 7/62, C09D 7/63, C09D 7/65 and C09D 7/70.

All groups listed in this Warning should be considered in order to perform a complete search.

7/44

Combinations of two or more thickening agents

WARNING

Group C09D 7/44 is incomplete pending reclassification of documents from groups C09D 7/60, C09D 7/61, C09D 7/62, C09D 7/63, C09D 7/65 and C09D 7/70.

All groups listed in this Warning should be considered in order to perform a complete search.

7/45

Anti-settling agents

WARNING

Group C09D 7/45 is incomplete pending reclassification of documents from groups C09D 7/60, C09D 7/61, C09D 7/62, C09D 7/63, C09D 7/65 and C09D 7/70.

All groups listed in this Warning should be considered in order to perform a complete search.

7/46

Anti-skinning agents

WARNING

Group C09D 7/46 is incomplete pending reclassification of documents from groups C09D 7/60, C09D 7/61, C09D 7/62, C09D 7/63, C09D 7/65 and C09D 7/70.

All groups listed in this Warning should be considered in order to perform a complete search.
C09D

7/47 . . Levelling agents

WARNING

Group C09D 7/47 is incomplete pending reclassification of documents from groups C09D 7/60, C09D 7/61, C09D 7/62, C09D 7/63, C09D 7/65 and C09D 7/70.

All groups listed in this Warning should be considered in order to perform a complete search.

7/48 . . Stabilisers against degradation by oxygen, light or heat

WARNING

Group C09D 7/48 is incomplete pending reclassification of documents from groups C09D 7/60, C09D 7/61, C09D 7/62, C09D 7/63, C09D 7/65 and C09D 7/70.

All groups listed in this Warning should be considered in order to perform a complete search.

7/60 . . non-macromolecular (C09D 7/41-C09D 7/48 take precedence)

WARNING


All groups listed in this Warning should be considered in order to perform a complete search.

7/61 . . inorganic

WARNING

Group C09D 7/61 is incomplete pending reclassification of documents from group C09D 7/70. Group C09D 7/61 is also impacted by reclassification into groups C09D 7/41, C09D 7/42, C09D 7/43, C09D 7/44, C09D 7/45, C09D 7/46, C09D 7/47, and C09D 7/48.

All groups listed in this Warning should be considered in order to perform a complete search.

7/62 . . . modified by treatment with other compounds

WARNING


All groups listed in this Warning should be considered in order to perform a complete search.

7/63 . . organic

WARNING


All groups listed in this Warning should be considered in order to perform a complete search.

7/65 . . macromolecular (C09D 7/41-C09D 7/48 take precedence)

WARNING

Group C09D 7/65 is incomplete pending reclassification of documents from group C09D 7/70. Group C09D 7/65 is also impacted by reclassification into groups C09D 7/41, C09D 7/42, C09D 7/43, C09D 7/44, C09D 7/45, C09D 7/46, C09D 7/47, and C09D 7/48.

All groups listed in this Warning should be considered in order to perform a complete search.

7/66 . . {characterised by particle size}

7/67 . . . {Particle size smaller than 100 nm}

7/68 . . . {Particle size between 100-1000 nm}

7/69 . . . {Particle size larger than 1000 nm}

7/70 . . . {characterised by shape, e.g. fibres, flakes or microspheres}

WARNING


All groups listed in this Warning should be considered in order to perform a complete search.

7/71 . . {Paint detackifiers or coagulants, e.g. for the treatment of oversprays in paint spraying installations (chemical paint removers C09D 9/00) }

7/80 . Processes for incorporating ingredients

9/00 Chemical paint or ink removers (fluid media for correction of typographical errors by coating C09D 10/00)

9/005 . {containing organic solvents}

9/02 . with abrasives

9/04 . with surface-active agents

10/00 Correcting fluids, e.g. fluid media for correction of typographical errors by coating {[correcting errors by overprinting B41J 29/36]}

11/00 Inks

11/02 . Printing inks (C09D 11/30 takes precedence)

11/023 . Emulsion inks

11/0235 . Duplicating inks, e.g. for stencil printing

11/03 . characterised by features other than the chemical nature of the binder
11/033 . . . characterised by the solvent
11/037 . . . characterised by the pigment
11/04 . . . based on proteins
11/06 . . . based on fatty oils
11/08 . . . based on natural resins
11/10 . . . based on artificial resins
11/101 . . . Inks specially adapted for printing processes
11/102 . . . containing macromolecular compounds
11/103 . . . of aldehydes, e.g. phenol-formaldehyde resins
11/104 . . . . Polymers
11/105 . . . . Alkyd resins
11/106 . . . containing macromolecular compounds
11/107 . . . from unsaturated acids or derivatives thereof
11/108 . . . Hydrocarbon resins
11/12 . . . based on waxes or bitumen
11/14 . . . based on carbohydrates
11/16 . . Writing inks
11/17 . . . characterised by colouring agents
11/18 . . . specially adapted for ball-point writing instruments
11/20 . . . indelible
11/30 . . Inkjet printing inks
11/32 . . . characterised by colouring agents
11/322 . . . Pigment inks
11/324 . . . containing carbon black
11/326 . . . characterised by the pigment dispersant
11/328 . . . characterised by dyes
11/34 . . . Hot-melt inks
11/36 . . . based on non-aqueous solvents
11/38 . . . characterised by non-macromolecular additives other than solvents, pigments or dyes
11/40 . . . Ink-sets specially adapted for multi-colour inkjet printing
11/50 . . . Sympathetic, colour changing or similar inks
11/52 . . . Electrically conductive inks
11/54 . . . Inks based on two liquids, one liquid being the ink, the other liquid being a reaction solution, a fixer or a treatment solution for the ink

13/00  Pencil-leads; Crayon compositions; Chalk compositions

15/00  Woodstains

17/00  Pigment pastes, e.g. for mixing in paints (artists’ paints C09D 5/06)
17/001 . . [in aqueous medium (C09D 17/003, C09D 17/004 take precedence)]
17/002 . . [in organic medium (C09D 17/003, C09D 17/004 take precedence)]
17/003 . . [containing an organic pigment (process features in the making of dye stuff preparations C09B 67/00)]
17/004 . . [containing an inorganic pigment]
17/005 . . [Carbon black]
17/006 . . . [Metal]
17/007 . . . [Metal oxide]

17/008 . . . [Titanium dioxide]
Coating compositions based on rubbers or on their derivatives

107/02 . Latex

109/00 Coating compositions based on homopolymers or copolymers of conjugated diene hydrocarbons
109/02 . Copolymers with acrylonitrile
109/04 . Latex
109/06 . Copolymers with styrene
109/08 . Latex
109/10 . Latex (C09D 109/04, C09D 109/08 take precedence)

111/00 Coating compositions based on homopolymers or copolymers of chloroprene
111/02 . Latex

113/00 Coating compositions based on rubbers containing carboxyl groups
113/02 . Latex

115/00 Coating compositions based on rubber derivatives (C09D 111/00, C09D 113/00 take precedence)
115/005 . [Hydrogenated nitrile rubber]
115/02 . Rubber derivatives containing halogen

117/00 Coating compositions based on reclaimed rubber
119/00 Coating compositions based on rubbers, not provided for in groups C09D 107/00 - C09D 117/00
119/003 . [Precrosslinked rubber; Scrap rubber; Used vulcanised rubber]
119/006 . [Rubber characterised by functional groups, e.g. telechelic diene polymers]
119/02 . Latex

121/00 Coating compositions based on unspecified rubbers
121/02 . Latex

Coating compositions based on organic macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds

123/00 Coating compositions based on homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Coating compositions based on derivatives of such polymers
123/02 . not modified by chemical after-treatment
123/025 . . . [Copolymer of an unspecified olefine with a monomer other than an olefine]
123/04 . . . Homopolymers or copolymers of ethene
123/06 . . . Polyethene
123/08 . . . Copolymers of ethene (C09D 123/16 takes precedence)
123/0807 . . . . . . . [Copolymers of ethene with unsaturated hydrocarbons containing more than three carbon atoms]
123/0815 . . . . . . . [Copolymers of ethene with aliphatic 1-olefins]
123/0823 . . . . . . . [Copolymers of ethene with aliphatic cyclic olefins]
123/083 . . . . . . . [Copolymers of ethene with aliphatic polyenes, i.e. containing more than one unsaturated bond]
123/0838 . . . . . . . [Copolymers of ethene with aromatic monomers]
123/0846 . . . . . . . [Copolymers of ethene with unsaturated hydrocarbons containing other atoms than carbon or hydrogen atoms]
123/0853 . . . . . . . [Vinylacetate]
123/0861 . . . . . . . [Saponified vinylacetate]
123/0869 . . . . . . . [Acids or derivatives thereof]
123/0876 . . . . . . . [Neutralised polymers, i.e. ionomers]
123/0884 . . . . . . . [Epoxide containing esters]
123/0892 . . . . . . . [Containing monomers with other atoms than carbon, hydrogen or oxygen atoms]
123/10 . . . Homopolymers or copolymers of propene
123/12 . . . Polypropene
123/14 . . . Copolymers of propene (C09D 123/16 takes precedence)
123/142 . . . . . . . [at least partially crystalline copolymers of propene with other olefins]
123/145 . . . . . . . [Copolymers of propene with monomers having more than one C=C double bond]
123/147 . . . . . . . [Copolymers of propene with monomers containing other atoms than carbon or hydrogen atoms]
123/16 . . . [Elastomeric] ethene-propene or ethene-propene-diene copolymers, [e.g. EPR and EPDM rubbers]

NOTE
This group is used for polymers comprising both ethylene and propylene

123/18 . . . Homopolymers or copolymers of hydrocarbons having four or more carbon atoms
123/20 . . . having four to nine carbon atoms
123/22 . . . . Copolymers of isobutene; Butyl rubber
[Hom- or copolymers of other iso-olefines]
123/24 . . . having ten or more carbon atoms
123/26 . modified by chemical after-treatment
123/28 . . by reaction with halogens or compounds containing halogen (C09D 123/32 takes precedence)
123/283 . . . . . . . [Halogenated homo- or copolymers of iso-olefines]
123/286 . . . . . . . [Chlorinated polyethylene]
123/30 . . by oxidation
123/32 . . by reaction with compounds containing phosphorus or sulfur
123/34 . . . by chlorosulfonation
123/36 . . . by reaction with compounds containing nitrogen, e.g. by nitrination

125/00 Coating compositions based on homopolymers or 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; Coating compositions based on derivatives of such polymers
125/02 . . . Homopolymers or copolymers of hydrocarbons
125/04 . . . Homopolymers or copolymers of styrene
125/06 . . . Polystyrene
125/08 . . . Copolymers of styrene (C09D 129/08, C09D 135/06, C09D 155/02 take precedence)
125/10 . . . with conjugated dienes
125/12 . . . with unsaturated nitriles
125/14 . . . with unsaturated esters
125/16 . . . Homopolymers or copolymers of alkyl-substituted styrenes
Coating compositions based on organic macromolecular compounds obtained by reactions only involving carbon-to-carbon...

125/18. Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen

127/00 Coating compositions based on homopolymers or 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; Coating compositions based on derivatives of such polymers

127/02. not modified by chemical after-treatment
127/04. containing chlorine atoms
127/06. Homopolymers or copolymers of vinyl chloride
127/08. Homopolymers or copolymers of vinylidene chloride
127/10. containing bromine or iodine atoms
127/12. containing fluorine atoms
127/14. Homopolymers or copolymers of vinyl fluoride
127/16. Homopolymers or copolymers of vinylidene fluoride
127/18. Homopolymers or copolymers of tetrafluoroethene
127/20. Homopolymers or copolymers of hexafluoropropene
127/22. modified by chemical after-treatment
127/24. halogenated

129/00 Coating compositions based on homopolymers or 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; Coating compositions based on hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Coating compositions based on derivatives of such polymers

129/02. Homopolymers or copolymers of unsaturated alcohols (C09D 129/14 takes precedence)
129/04. Polyvinyl alcohol: Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids

129/06. Copolymers of allyl alcohol
129/08. with vinyl aromatic monomers
129/10. Homopolymers or copolymers of unsaturated ethers (C09D 135/08 takes precedence)
129/12. Homopolymers or copolymers of unsaturated ketones
129/14. Homopolymers or copolymers of acetics or ketals obtained by polymerisation of unsaturated acetics or ketals or by after-treatment of polymers of unsaturated alcohols

131/00 Coating compositions based on homopolymers or 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 carboxylic acid, or of a haliformic acid (based on hydrolysed polymers C09D 129/00); Coating compositions based on derivatives of such polymers

131/02. Homopolymers or copolymers of esters of monocarboxylic acids
Coating compositions based on organic macromolecular compounds obtained by reactions only involving carbon-to-carbon...
Coating compositions based on organic macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds

| 159/00 | Coating compositions based on polyaacetals; Coating compositions based on derivatives of polyaacetals |
| 159/02 | Polyaacetals containing polyoxymethylene sequence only |
| 159/04 | Copolyoxymethylene |
| 161/00 | Coating compositions based on condensation polymers of aldehydes or ketones (with polyalcohols C09D 159/00; with polyamines C09D 177/00); Coating compositions based on derivatives of such polymers |
| 161/02 | Condensation polymers of aldehydes or ketones only |
| 161/04 | Condensation polymers of aldehydes or ketones with phenols only |
| 161/06 | Of aldehydes with phenols |
| 161/12 | With polyhydric phenols |
| 161/14 | Modified phenol-aldehyde condensates |
| 161/16 | Of ketones with phenols |
| 161/18 | Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only |
| 161/20 | Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with amino phenols C09D 161/04) |
| 161/22 | Of aldehydes with acyclic or carbocyclic compounds |
| 161/24 | With urea or thiourea |
| 161/26 | Of aldehydes with heterocyclic compounds |
| 161/28 | With melamine |
| 161/30 | Of aldehydes with heterocyclic and acyclic or carbocyclic compounds |
| 161/32 | Modified amine-aldehyde condensates |
| 161/34 | Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups C09D 161/04, C09D 161/18 and C09D 161/20 |

163/00 Coating compositions based on epoxy resins; Coating compositions based on derivatives of epoxy resins

| 163/04 | Epoxynovolacs |
| 163/06 | Triglycidylisocyanurates |
| 163/08 | Epoxidised polymerised polyenes |
| 163/10 | Epoxy resins modified by unsaturated compounds |

**NOTE**
In groups C09D 165/00 - C09D 183/00, in the absence of an indication to the contrary, adhesives based on macromolecular compounds obtained by reactions forming two different linkages in the main chain are classified according to the linkage present in excess.

165/00 Coating compositions based on macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain (C09D 107/00 - C09D 157/00, C09D 161/00 take precedence); Coating compositions based on derivatives of such polymers

| 165/02 | Polyphenylenes |

167/00 Coating compositions based on polyesters obtained by reactions forming a carboxylic ester link in the main chain (based on polyester-amides C09D 177/12; based on polyester-imides C09D 179/08); Coating compositions based on derivatives of such polymers

| 167/02 | Polymers derived from dicarboxylic acids and dihydroxy compounds (C09D 167/06 takes precedence) |

167/04 | Polymers derived from hydroxyacidic acids, e.g. lactones (C09D 167/06 takes precedence) |

167/06 | Unsaturated polyesters having carbon-to-carbon unsaturation |

| 167/07 | Having terminal carbon-to-carbon unsaturated bonds |
| 167/08 | Polymers modified with higher fatty oils or their acids, or with natural resins or resin acids |

169/00 Coating compositions based on polycarbonates; Coating compositions based on derivatives of polycarbonates

| 169/005 | (Polyester-carbonates) |

171/00 Coating compositions based on polyethers obtained by reactions forming an ether link in the main chain (based on polyacetals C09D 159/00; based on epoxy resins C09D 163/00; based on polythioether-ethers C09D 181/02; based on polyethersulfones C09D 181/06); Coating compositions based on derivatives of such polymers

| 171/02 | Polyalkylene oxides |
| 171/03 | Polyepihalohydrins |
| 171/08 | Polymers derived from hydroxy compounds or from their metallic derivatives (C09D 171/02 takes precedence) (not used) |

| 171/10 | From phenols (not used) |
| 171/12 | Polyphenylene oxides |
| 171/14 | Furfuryl alcohol polymers |

173/00 Coating compositions based on macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C09D 159/00 - C09D 171/00; Coating compositions based on derivatives of such polymers

| 173/02 | Polyanhydrides |

175/00 Coating compositions based on polyureas or polyurethanes; Coating compositions based on derivatives of such polymers

| 175/02 | Polyureas |
| 175/04 | Polyurethanes |
| 175/06 | From polyesters |
| 175/08 | From polyethers |
| 175/10 | From polyaacetals |
| 175/12 | From compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group |
Coating compositions based on organic macromolecular compounds obtained otherwise than by reactions only involving...

175/14 . . Polyurethanes having carbon-to-carbon unsaturated bonds
175/16 . . having terminal carbon-to-carbon unsaturated bonds

177/00 Coating compositions based on polyamides obtained by reactions forming a carboxylic amide link in the main chain (based on polyhydrazides C09D 179/06; based on polyamide-imides C09D 179/08); Coating compositions based on derivatives of such polymers

177/02 . Polyamides derived from omega-amino carboxylic acids or from lactams thereof (C09D 177/10 takes precedence)
177/04 . Polyamides derived from alpha-amino carboxylic acids (C09D 177/10 takes precedence)
177/06 . Polyamides derived from polyamines and polycarboxylic acids (C09D 177/10 takes precedence)
177/08 . . from polyamines and polymerised unsaturated fatty acids
177/10 . Polyamides derived from aromatically bound amino and carbonyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids
177/12 . Polyester-amides

179/00 Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing nitrogen, with or without oxygen, or carbon only, not provided for in groups C09D 161/00 - C09D 177/00

179/02 . Polymers
179/04 . Polycarboxylic acids; Heterocyclic rings in the main chain; Polyhydrazides; Polychlorophenols; Polysiloxanes; Polysiloxanes
179/06 . . Polyhydrazides; Polynitrile; Polyaldehyde-terephthalate, Polyanhydrides; Polysiloxanes; Polysiloxanes
179/08 . . Polyimides; Polyamide-amides; Polyamide-acids or similar polyimide precursors
179/085 . . . {Unsaturated polyamide precursors}

181/00 Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing sulfur, with or without nitrogen, oxygen, or carbon only; Coating compositions based on polysulfones; Coating compositions based on derivatives of such polymers

181/02 . Polythioetherpolymers, Polythioether-thiols, Polythioether-thers
181/04 . Polysulfides
181/06 . Polysulfones, Polythioether sulfones
181/08 . Polysulfonates
181/10 . Polysulfonamides; Polysulfonimides

183/00 Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon, with or without sulfur, nitrogen, oxygen, or carbon only; Coating compositions based on derivatives of such polymers

NOTE
In this main group and its subgroups, from 01.09.2010 onwards, new documents are classified according to the following system. The coating composition is identified with the C-Set, e.g. (C09D 183/10, C08L 83/04) for a coating composition containing two or more silicones, while the information as to which different polymers are present in the coating composition is identified with additional indexing codes, e.g. C08G 77/12 and C08G 77/20.

183/02 . Polysilicates
183/04 . Polysiloxanes
183/06 . . containing silicon bound to oxygen-containing groups (C09D 183/12 takes precedence)
183/08 . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen
183/10 . Block or graft copolymers containing polysiloxane sequences (obtained by polymerising a compound having a carbon-to-carbon double bond on to a polysiloxane C09D 151/08, C09D 153/00)
183/12 . . containing polyether sequences
183/14 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (C09D 183/10 takes precedence)
183/16 . in which all the silicon atoms are connected by linkages other than oxygen atoms

185/00 Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon; Coating compositions based on derivatives of such polymers

185/02 . containing phosphorus
185/04 . containing boron

187/00 Coating compositions based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds

187/005 . [Block or graft polymers not provided for in groups C09D 101/00 - C09D 185/04]

Coating compositions based on natural macromolecular compounds or on derivatives thereof (based on polysaccharides C09D 101/00, C09D 105/00; based on natural rubber C09D 107/00)

189/00 Coating compositions based on proteins; Coating compositions based on derivatives thereof (foodstuff preparations A23J 3/00)

189/005 . [Casein]
189/02 . Casein-aldehyde condensates
189/04 . Products derived from waste materials, e.g. horn, hoof or hair
189/06 . . derived from leather or skin

191/00 Coating compositions based on oils, fats or waxes; Coating compositions based on derivatives thereof (polishing compositions, ski waxes C09G; soaps, detergent compositions C11D)

191/005 . [Drying oils]
191/02 . Vulcanised oils, e.g. factice
191/04 . Linoleum
191/06 . Waxes
191/08 . . Mineral waxes
Coating compositions based on natural macromolecular compounds or on derivatives thereof

193/00  Coating compositions based on natural resins;
         Coating compositions based on derivatives thereof
         (polishing compositions C09G)
193/02  .  Shellac
193/04  .  Rosin

195/00  Coating compositions based on bituminous
         materials, e.g. asphalt, tar, pitch
195/005  .  {Aqueous compositions, e.g. emulsions}

197/00  Coating compositions based on lignin-containing
         materials
197/002  .  {Peat, lignite, coal (briquettes C10L 5/00; working-
         up peat; ceramic products based on carbon or
         carbides)}
197/005  .  {Lignin}
197/007  .  {Cork}
197/02  .  Lignocellulosic material, e.g. wood, straw or
         bagasse

199/00  Coating compositions based on natural
         macromolecular compounds or on derivatives
         thereof, not provided for in groups
         C09D 189/00 - C09D 197/00

201/00  Coating compositions based on unspecified
         macromolecular compounds
201/005  .  {Dendritic macromolecules}
201/02  .  characterised by the presence of specified groups {,
         e.g. terminal or pendant functional groups}
201/025  .  .  {containing nitrogen atoms}
201/04  .  .  containing halogen atoms
201/06  .  .  containing oxygen atoms {((C09D 201/025 takes
         precedence))}
201/08  .  .  .  Carboxyl groups
201/10  .  .  .  containing hydrolysable silane groups