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

C09K MATERIALS FOR MISCELLANEOUS APPLICATIONS, NOT PROVIDED FOR **ELSEWHERE**

NOTES

- 1. This subclass covers also the use of specified materials in general or their use for the applications not specially provided for
- 2. In this subclass, the following term is used with the meaning indicated:
 - "materials" includes compositions.

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:

C09K 11/78-C09K 11/86

covered by

C09K 11/77 - C09K 11/7798, C09K 11/87, C09K 11/88, C09K 11/89

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

3/00 Materials not provided for elsewhere

NOTE

When classifying in groups C09K 3/10 - C09K 3/1028 the properties and uses of the material can be further indexed by using indexing codes chosen from <u>C09K 2003/1034</u> - <u>C09K 2003/1096</u> and the chemical nature of the materials can be further indexed by using indexing codes chosen from C09K 2200/00 - C09K 2200/0697

3/10 . {Materials in mouldable or extrudable form} for sealing or packing joints or covers (filling pastes C09D 5/34)

3/1003 • • {Pure inorganic mixtures}

. . {characterised by the chemical nature of one of its 3/1006 constituents }

3/1009 • • {Fluorinated polymers, e.g. PTFE}

3/1012 • • {Sulfur-containing polymers, e.g. polysulfides}

3/1015 • • {Polysaccharides or derivatives thereof}

3/1018 . . . {Macromolecular compounds having one or more carbon-to-silicon linkages}

3/1021 • • {Polyurethanes or derivatives thereof}

3/1025 . . {characterised by non-chemical features of one or more of its constituents}

3/1028 • • {Fibres}

3/1031 • • {Sealing waxes, e.g. sealing letters, bottles, or the

2003/1034 . . {Materials or components characterised by specific properties}

2003/1037 . . . {Intumescent materials}

2003/104 . . . {Water-swellable materials} 2003/1043 . . . {Non water-swellable materials} 2003/1046 . . . {Water-absorbing materials}

2003/105 . . . {Water-soluble materials} 2003/1053 . . . {Elastomeric materials}

2003/1056 . . . {Moisture-curable materials} 2003/1059 . . . {Heat-curable materials} 2003/1062 . . . {UV-curable materials}

2003/1065 . . . {Anaerobically hardenable materials}

2003/1068 . . . {Crosslinkable materials} 2003/1071 . . . {Thixotropic materials} 2003/1075 . . . {Injection-mouldable materials}

2003/1078 . . . {Fire-resistant, heat-resistant materials}

2003/1081 . . . {Water-proofed materials}

2003/1084 . . {Laminates}

2003/1087 . . {Materials or components characterised by specific uses}

2003/109 . . . {Crown caps} 2003/1093 . . . {Cables}

2003/1096 . . . {Cylinder head gaskets}

. Materials for stopping leaks, e.g. in radiators, in 3/12 tanks (filling pastes C09D 5/34)

3/14	 Anti-slip materials; Abrasives {(products) 	5/042	• • • {comprising compounds containing carbon
	specifically intended for the fabrication of abrasive		and hydrogen only}
	tools, blocks or papers, or for operations of the	5/044	• • • {comprising halogenated compounds}
	kind of sand-blasting and barrelling <u>B24B 31/14</u> ,	5/045	{containing only fluorine as halogen}
	<u>B24C 1/00</u> ; polishing compositions containing	5/047	{for absorption-type refrigeration systems}
	abrasive or grinding agents C09G 1/02; polishing	5/048	• • {Boiling liquids as heat transfer materials}
	of semi-conductors <u>H01L</u> ; friction compositions for	5/06	
	brakes or clutches $F16D 69/02$)	3/06	the change of state being from liquid to solid or
	NOTE	7 /0 / 0	vice versa
	<u>NOTE</u>	5/063	{Materials absorbing or liberating heat during
	In this group, boron and silicon are considered as		crystallisation; Heat storage materials}
	being metals. Likewise for associations of carbon	5/066	• • • {Cooling mixtures; De-icing compositions}
	with metals, e.g. carbides.	5/08	 Materials not undergoing a change of physical
			state when used (<u>C09K 5/16</u> , <u>C09K 5/20</u> take
3/1409	• • {Abrasive particles <u>per se</u> (preparation of		precedence)
	diamond <u>C01B 32/25</u>)}	5/10	Liquid materials
3/1418	• • • {obtained by division of a mass agglomerated	5/12	Molten materials, i.e. materials solid at room
	by sintering}		temperature, e.g. metals or salts
3/1427	• • · {obtained by division of a mass agglomerated	5/14	Solid materials, e.g. powdery or granular
	by melting, at least partially, e.g. with a binder}	5/16	Materials undergoing chemical reactions when used
3/1436	• • {Composite particles, e.g. coated particles}	5/18	Non-reversible chemical reactions
3/1445	• • { the coating consisting exclusively of metals }		
3/1454	• • {Abrasive powders, suspensions and pastes for	5/20	• Antifreeze additives therefor, e.g. for radiator
3/1434	polishing}		liquids (for application to surfaces <u>C09K 3/18;</u>
3/1463	• • {Aqueous liquid suspensions}		inhibiting corrosion by liquids <u>C23F 11/00</u>)
		8/00	Compositions for drilling of boreholes or wells;
3/1472	{Non-aqueous liquid suspensions}		Compositions for treating boreholes or wells, e.g.
3/1481	• • • {Pastes, optionally in the form of blocks or		for completion or for remedial operations
2/1/0	sticks}		
3/149	• • {Antislip compositions}		NOTE
3/16	Anti-static materials		{When classifying in groups
3/18	 for application to surfaces to minimize adherence 		C09K 8/00-C09K 8/40 and C09K 8/50-C09K 8/94,
	of ice, mist or water thereto (rendering particulate		it is mandatory when appropriate to classify with
	materials free flowing, in general, e.g. making them		indexing codes for aspects relating to compositions
			macking codes for aspects relating to compositions
	hydrophobic <u>B01J 2/30</u>); Thawing or antifreeze		
			for drilling or treating boreholes or wells. The
	hydrophobic <u>B01J 2/30</u>); Thawing or antifreeze		for drilling or treating boreholes or wells. The indexing codes are chosen from the groups
	hydrophobic <u>B01J 2/30</u>); Thawing or antifreeze materials for application to surfaces (used in liquids		for drilling or treating boreholes or wells. The
	hydrophobic <u>B01J 2/30</u>); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage	8/02	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups
3/185	hydrophobic <u>B01J 2/30</u>); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, <u>C09K 5/00</u>)	8/02	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions
3/185 3/20	hydrophobic <u>B01J 2/30</u>); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, <u>C09K 5/00</u>) • {Thawing materials}	8/02	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} • Well-drilling compositions NOTE
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3/20 3/22 3/24	hydrophobic <u>B01J 2/30</u>); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, <u>C09K 5/00</u>) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow		for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} • Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place.
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3/20 3/22 3/24 3/30 3/32 5/00	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • the change of state being from liquid to vapour or vice versa	8/03 8/032 8/035 8/04 8/05 8/06 8/08	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions Containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) Containing natural organic compounds, e.g. polysaccharides, or derivatives thereof
3/20 3/22 3/24 3/30 3/32 5/00	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • the change of state being from liquid to vapour or	8/03 8/032 8/035 8/04 8/05 8/06	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) Containing natural organic compounds, e.g. polysaccharides, or derivatives thereof Cellulose or derivatives thereof Containing synthetic organic macromolecular
3/20 3/22 3/24 3/30 3/32 5/00	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • the change of state being from liquid to vapour or vice versa NOTE	8/03 8/032 8/035 8/04 8/05 8/06 8/08 8/10 8/12	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) containing natural organic compounds, e.g. polysaccharides, or derivatives thereof Cellulose or derivatives thereof Containing synthetic organic macromolecular compounds or their precursors
3/20 3/22 3/24 3/30 3/32 5/00	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • the change of state being from liquid to vapour or vice versa NOTE When classifying in groups C09K 5/042,	8/03 8/032 8/035 8/04 8/05 8/06 8/08	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) Containing natural organic compounds, e.g. polysaccharides, or derivatives thereof Cellulose or derivatives thereof Containing synthetic organic macromolecular compounds or their precursors Clay-containing compositions (containing
3/20 3/22 3/24 3/30 3/32 5/00	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • • the change of state being from liquid to vapour or vice versa NOTE When classifying in groups C09K 5/042, C09K 5/044 and C09K 5/045 the chemical	8/03 8/032 8/035 8/04 8/05 8/06 8/08 8/10 8/12	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) Containing natural organic compounds, e.g. polysaccharides, or derivatives thereof Cellulose or derivatives thereof Containing synthetic organic macromolecular compounds or their precursors Clay-containing compositions (containing inorganic compounds C09K 8/05)
3/20 3/22 3/24 3/30 3/32 5/00	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • • the change of state being from liquid to vapour or vice versa NOTE When classifying in groups C09K 5/042, C09K 5/044 and C09K 5/045 the chemical nature of the material can be further indexed	8/03 8/032 8/035 8/04 8/05 8/06 8/08 8/10 8/12	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) containing natural organic compounds, e.g. polysaccharides, or derivatives thereof Cellulose or derivatives thereof Celly-containing synthetic organic macromolecular compounds or their precursors Clay-containing compositions (containing inorganic compounds C09K 8/05) Clay-containing compositions (containing inorganic compounds C09K 8/05)
3/20 3/22 3/24 3/30 3/32 5/00	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • • the change of state being from liquid to vapour or vice versa NOTE When classifying in groups C09K 5/042, C09K 5/044 and C09K 5/045 the chemical	8/03 8/032 8/035 8/04 8/05 8/06 8/08 8/10 8/12 8/14	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) containing natural organic compounds, e.g. polysaccharides, or derivatives thereof Cellulose or derivatives thereof Containing synthetic organic macromolecular compounds or their precursors Clay-containing compositions (containing inorganic compounds C09K 8/05) Claracterised by the composition of the clay}
3/20 3/22 3/24 3/30 3/32 5/00 5/02	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • • the change of state being from liquid to vapour or vice versa NOTE When classifying in groups C09K 5/042, C09K 5/044 and C09K 5/045 the chemical nature of the material can be further indexed by using indexing codes chosen from C09K 2205/00 - C09K 2205/48	8/03 8/032 8/035 8/04 8/05 8/06 8/08 8/10 8/12	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions Containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) Containing natural organic compounds, e.g. polysaccharides, or derivatives thereof Cellulose or derivatives thereof Containing synthetic organic macromolecular compounds or their precursors Clay-containing compositions (containing inorganic compounds C09K 8/05) Claracterised by the composition of the clay} characterised by the inorganic compounds
3/20 3/22 3/24 3/30 3/32 5/00	hydrophobic B01J 2/30); Thawing or antifreeze materials for application to surfaces (used in liquids for heat-transfer, heat-exchange or heat-storage or for the production of heat or cold other than by combustion, e.g. radiator liquids, C09K 5/00) • {Thawing materials} • as substitutes for glycerol in its non-chemical uses, e.g. as a base in toiletry creams or ointments • for dust-laying or dust-absorbing • for simulating ice or snow • for aerosols (aerosol containers B65D 83/14) • for absorbing liquids to remove pollution, e.g. oil, gasoline, fat Heat-transfer, heat-exchange or heat-storage materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions other than by combustion • Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) • • the change of state being from liquid to vapour or vice versa NOTE When classifying in groups C09K 5/042, C09K 5/044 and C09K 5/045 the chemical nature of the material can be further indexed by using indexing codes chosen from	8/03 8/032 8/035 8/04 8/05 8/06 8/08 8/10 8/12 8/14	for drilling or treating boreholes or wells. The indexing codes are chosen from the groups C09K 2208/00-C09K 2208/34} Well-drilling compositions NOTE In groups C09K 8/02-C09K 8/38, in the absence of an indication to the contrary, classification is made in the last appropriate place. Specific additives for general use in well-drilling compositions Inorganic additives Organic additives Aqueous well-drilling compositions containing inorganic compounds only, e.g. mixtures of clay and salt Clay-free compositions (containing inorganic compounds only C09K 8/05) containing natural organic compounds, e.g. polysaccharides, or derivatives thereof Cellulose or derivatives thereof Containing synthetic organic macromolecular compounds or their precursors Clay-containing compositions (containing inorganic compounds C09K 8/05) Claracterised by the composition of the clay}

8/20	Natural organic compounds or derivatives	8/52	• Compositions for preventing, limiting or eliminating
	thereof, e.g. polysaccharides or lignin		depositions, e.g. for cleaning
	derivatives	8/524	• organic depositions, e.g. paraffins or asphaltenes
8/203	• • • • • {Wood derivatives, e.g. lignosulfonate,	8/528	• • inorganic depositions, e.g. sulfates or carbonates
0.12.0 4	tannin, tall oil, sulfite liquor}	8/532	Sulfur
8/206	• • • • • {Derivatives of other natural products, e.g. cellulose, starch, sugars}	8/536	 characterised by their form or by the form of their components, e.g. encapsulated material
8/22	Synthetic organic compounds	8/54	• Compositions for <u>in situ</u> inhibition of corrosion in
8/24	Polymers	5,6 .	boreholes or wells
8/26	Oil-in-water emulsions	8/56	• Compositions for consolidating loose sand or the
8/265	{containing inorganic additives}		like around wells without excessively decreasing the
8/28	containing organic additives		permeability thereof (compositions for plastering
8/32	. Non-aqueous well-drilling compositions, e.g. oil-		borehole walls <u>C09K 8/50</u> ; {Soil-conditioning
	based		materials or soil-stabilising materials in general
8/34	Organic liquids		<u>C09K 17/00</u> })
8/36	Water-in-oil emulsions	8/565	 Oil-based compositions
8/38	Gaseous or foamed well-drilling compositions	8/57	 Compositions based on water or polar solvents
8/40	• Spacer compositions, e.g. compositions used to		(<u>C09K 8/565</u> takes precedence)
	separate well-drilling from cementing masses	8/572	• • • {containing inorganic compounds}
8/42	Compositions for cementing, e.g. for cementing	8/575	containing organic compounds
	casings into boreholes; Compositions for plugging,	8/5751	• • • • {Macromolecular compounds (<u>C09K 8/5756</u>
	e.g. for killing wells (compositions for plastering		takes precedence)}
	<u>C09K 8/50</u>)	8/5753	• • • • {obtained by reactions only involving
8/422	• • {specially adapted for sealing expandable pipes,		carbon-to-carbon unsaturated bonds}
	e.g. of the non-hardening type}	8/5755	• • • • • {obtained otherwise than by reactions only
8/424	• • {using "spacer" compositions}		involving carbon-to-carbon unsaturated
8/426	• • {for plugging}	0/5756	bonds}
8/428	• • {for squeeze cementing, e.g. for repairing}	8/5756	{containing cross-linking agents}
8/44	containing organic binders only	8/5758	• • • • {of natural origin, e.g. polysaccharides,
8/46	containing inorganic binders, e.g. Portland cement		cellulose (<u>C09K 8/5756</u> takes precedence)}
8/467	containing additives for specific purposes	8/58	 Compositions for enhanced recovery methods for
8/473	Density reducing additives, e.g. for obtaining		obtaining hydrocarbons, i.e. for improving the
	foamed cement compositions		mobility of the oil, e.g. displacing fluids
8/48	Density increasing or weighting additives	8/582	characterised by the use of bacteria
8/487	Fluid loss control additives; Additives for	8/584	characterised by the use of specific surfactants
	reducing or preventing circulation loss	8/588	characterised by the use of specific polymers
8/493	Additives for reducing or preventing gas	0.4704	{(polymeric surfactants <u>C09K 8/584</u>)}
	migration	8/592	Compositions used in combination with generated
8/50	 Compositions for plastering borehole walls, i.e. 	0/504	heat, e.g. by steam injection
	compositions for temporary consolidation of	8/594	Compositions used in combination with injected
	borehole walls (compositions for consolidating	8/394	gas {, e.g. CO ₂ or carbonated gas}(C09K 8/592
	borehole walls (compositions for consolidating loose sand or the like around wells <u>C09K 8/56</u>)		gas {, e.g. CO ₂ orcarbonated gas}(<u>C09K 8/592</u> takes precedence)
8/501	borehole walls (compositions for consolidating loose sand or the like around wells <u>C09K 8/56</u>) • {using spacer compositions}	8/594	gas {, e.g. CO ₂ orcarbonated gas}(<u>C09K 8/592</u> takes precedence) Compositions for stimulating production by acting
8/502	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions	8/60	gas {, e.g. CO ₂ orcarbonated gas}(<u>C09K 8/592</u> takes precedence) Compositions for stimulating production by acting on the underground formation
	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) . {using spacer compositions} . Oil-based compositions . Compositions based on water or polar solvents	8/60 8/601	 gas {, e.g. CO₂ orcarbonated gas}(<u>C09K 8/592</u> takes precedence) Compositions for stimulating production by acting on the underground formation {using spacer compositions}
8/502 8/504	borehole walls (compositions for consolidating loose sand or the like around wells <u>C09K 8/56</u>) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (<u>C09K 8/502</u> takes precedence)	8/60 8/601 8/602	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants)
8/502 8/504 8/5045	borehole walls (compositions for consolidating loose sand or the like around wells <u>C09K 8/56</u>) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (<u>C09K 8/502</u> takes precedence) • {containing inorganic compounds}	8/601 8/602 8/604	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) Polymeric surfactants}
8/502 8/504 8/5045 8/506	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • containing organic compounds	8/601 8/602 8/604 8/605	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (Polymeric surfactants) (containing biocides)
8/502 8/504 8/5045	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • • {containing inorganic compounds} • • containing organic compounds • • • macromolecular compounds {(C09K 8/512)	8/601 8/602 8/604 8/605 8/607	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (Polymeric surfactants) (containing biocides) (specially adapted for clay formations)
8/502 8/504 8/5045 8/506 8/508	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • • containing organic compounds • • macromolecular compounds {(C09K 8/512 takes precedence)}	8/601 8/602 8/604 8/605 8/607 8/608	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (Polymeric surfactants) (specially adapted for clay formations) (Polymer compositions)
8/502 8/504 8/5045 8/506	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) . {using spacer compositions} . Oil-based compositions . Compositions based on water or polar solvents (C09K 8/502 takes precedence) {containing inorganic compounds} containing organic compounds macromolecular compounds {(C09K 8/512 takes precedence)} {obtained by reactions only involving	8/601 8/602 8/604 8/605 8/607 8/608 8/62	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (polymeric surfactants) (specially adapted for clay formations) (Polymer compositions) (Polymer compositions) Compositions for forming crevices or fractures
8/502 8/504 8/5045 8/506 8/508 8/5083	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • • containing organic compounds • • macromolecular compounds {(C09K 8/512 takes precedence)} • • {obtained by reactions only involving carbon-to-carbon unsaturated bonds}	8/601 8/602 8/604 8/605 8/607 8/608 8/62 8/64	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (polymeric surfactants) (specially adapted for clay formations) (Polymer compositions) (Compositions for forming crevices or fractures) Oil-based compositions
8/502 8/504 8/5045 8/506 8/508	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • • containing organic compounds • • macromolecular compounds {(C09K 8/512 takes precedence)} • • {obtained by reactions only involving carbon-to-carbon unsaturated bonds} • • {obtained otherwise than by reactions only	8/601 8/602 8/604 8/605 8/607 8/608 8/62	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (polymeric surfactants) (specially adapted for clay formations) (polymer compositions) Compositions for forming crevices or fractures Oil-based compositions Compositions based on water or polar solvents
8/502 8/504 8/5045 8/506 8/508 8/5083	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • containing organic compounds • macromolecular compounds {(C09K 8/512 takes precedence)} • • {obtained by reactions only involving carbon-to-carbon unsaturated bonds} • • • {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated	8/60 8/601 8/602 8/604 8/605 8/607 8/608 8/62 8/64 8/66	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (polymeric surfactants) (specially adapted for clay formations) (polymer compositions) Compositions for forming crevices or fractures Oil-based compositions Compositions based on water or polar solvents (C09K 8/64 takes precedence)
8/502 8/504 8/5045 8/506 8/508 8/5083 8/5086	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • containing organic compounds • macromolecular compounds {(C09K 8/512 takes precedence)} • • {obtained by reactions only involving carbon-to-carbon unsaturated bonds} • • • {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds}	8/601 8/602 8/604 8/605 8/607 8/608 8/62 8/64	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (polymeric surfactants) (specially adapted for clay formations) (polymer compositions) Compositions for forming crevices or fractures Oil-based compositions Compositions based on water or polar solvents (C09K 8/64 takes precedence) (containing inorganic compounds (proppants)
8/502 8/504 8/5045 8/506 8/508 8/5083 8/5086	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • containing organic compounds • macromolecular compounds {(C09K 8/512 takes precedence)} • {obtained by reactions only involving carbon-to-carbon unsaturated bonds} • • {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds} • • • containing cross-linking agents	8/60 8/601 8/602 8/604 8/605 8/607 8/608 8/62 8/64 8/66	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (polymeric surfactants) (specially adapted for clay formations) (polymer compositions) Compositions for forming crevices or fractures Oil-based compositions Compositions based on water or polar solvents (C09K 8/64 takes precedence) (containing inorganic compounds (proppants C09K 8/80))
8/502 8/504 8/5045 8/506 8/508 8/5083 8/5086	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • containing organic compounds • macromolecular compounds {(C09K 8/512 takes precedence)} • {obtained by reactions only involving carbon-to-carbon unsaturated bonds} • • {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds} • • • containing cross-linking agents • • • of natural origin, e.g. polysaccharides,	8/60 8/601 8/602 8/604 8/605 8/607 8/608 8/62 8/64 8/66	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (specially adapted for clay formations) (polymer compositions) Compositions for forming crevices or fractures Oil-based compositions Compositions based on water or polar solvents (C09K 8/64 takes precedence) (containing inorganic compounds (proppants C09K 8/80)) containing organic compounds
8/502 8/504 8/5045 8/506 8/508 8/5083 8/5086	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • containing organic compounds • macromolecular compounds {(C09K 8/512 takes precedence)} • {obtained by reactions only involving carbon-to-carbon unsaturated bonds} • • {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds} • • • containing cross-linking agents • • • of natural origin, e.g. polysaccharides, cellulose (C09K 8/512 takes precedence)	8/60 8/601 8/602 8/604 8/605 8/607 8/608 8/62 8/64 8/66	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (polymeric surfactants) (specially adapted for clay formations) (polymer compositions) Compositions for forming crevices or fractures Oil-based compositions Compositions based on water or polar solvents (C09K 8/64 takes precedence) (containing inorganic compounds (proppants C09K 8/80))
8/502 8/504 8/5045 8/506 8/508 8/5083 8/5086	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • containing organic compounds • macromolecular compounds {(C09K 8/512 takes precedence)} • (obtained by reactions only involving carbon-to-carbon unsaturated bonds} • • (obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds} • • • (obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds} • • • • (of natural origin, e.g. polysaccharides, cellulose (C09K 8/512 takes precedence) • • characterised by their form or by the form of their	8/60 8/601 8/602 8/604 8/605 8/607 8/608 8/62 8/64 8/66	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (specially adapted for clay formations) (polymer compositions) Compositions for forming crevices or fractures Oil-based compositions Compositions based on water or polar solvents (C09K 8/64 takes precedence) (containing inorganic compounds (proppants C09K 8/80)) containing organic compounds
8/502 8/504 8/5045 8/506 8/508 8/5083 8/5086	borehole walls (compositions for consolidating loose sand or the like around wells C09K 8/56) • {using spacer compositions} • Oil-based compositions • Compositions based on water or polar solvents (C09K 8/502 takes precedence) • {containing inorganic compounds} • containing organic compounds • macromolecular compounds {(C09K 8/512 takes precedence)} • {obtained by reactions only involving carbon-to-carbon unsaturated bonds} • • {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds} • • • containing cross-linking agents • • • of natural origin, e.g. polysaccharides, cellulose (C09K 8/512 takes precedence)	8/60 8/601 8/602 8/604 8/605 8/607 8/608 8/62 8/64 8/66	gas {, e.g. CO ₂ orcarbonated gas}(C09K 8/592 takes precedence) Compositions for stimulating production by acting on the underground formation (using spacer compositions) (containing surfactants) (polymeric surfactants) (specially adapted for clay formations) (polymer compositions) Compositions for forming crevices or fractures Oil-based compositions Compositions based on water or polar solvents (C09K 8/64 takes precedence) (containing inorganic compounds (proppants C09K 8/80)) containing organic compounds

C09K 8/68 (continued)	C09K 8/88 - C09K 8/905 according to the	<u>C09K 2211/00</u> - <u>C09K 2211/188</u> relating to the
(specific compositions	chemical nature of the luminescent material}
8/685	{containing cross-linking agents}	11/07 • having chemically interreactive components, e.g.
8/70	 characterised by their form or by the form of their components, e.g. foams 	reactive chemiluminescent compositions 11/08 • containing inorganic luminescent materials
8/703	· · · · {Foams}	NOTES
8/706	{Encapsulated breakers}	
8/72	Eroding chemicals, e.g. acids	1. In groups <u>C09K 11/08</u> - <u>C09K 11/897</u> , in
8/725	• • • {Compositions containing polymers}	the absence of an indication to the contrary, classification of materials is made in the last
8/74	combined with additives added for specific purposes	appropriate place 2. { In this group, magnesium is considered as an
8/76	• • • • for preventing or reducing fluid loss	alkaline earth metal }
8/78	for preventing sealing	untulnic cutti inctui j
8/80	• Compositions for reinforcing fractures, e.g.	<u>WARNING</u>
	compositions of proppants used to keep the	Groups <u>C09K 11/0805</u> - <u>C09K 11/0894</u> , with
9/905	fractures open	the exception of <u>C09K 11/0883</u> for classifying
8/805 8/82	{Coated proppants}	nitrides, are no longer used for classification
8/82	Oil-based compositions (<u>C09K 8/64</u> takes precedence)	of new documents. The backlog of this group
8/84	Compositions based on water or polar solvents (C09K 8/66, C09K 8/82 take precedence)	is being continuously reclassified to subgroups C09K 11/54 - C09K 11/897
8/845	• • {containing inorganic compounds}	11/0805 {Chalcogenides}
8/86	containing organic compounds	11/0811 {with zinc or cadmium}
8/88	macromolecular compounds	11/0816 { with alkaline earth metals}
8/882	{obtained by reactions only involving	11/0822 { with rare earth metals}
	carbon-to-carbon unsaturated bonds}	11/0827 • • {Halogenides (<u>C09K 11/0805</u> takes precedence)}
8/885	• • • • { obtained otherwise than by reactions only	11/0833 { with alkali or alkaline earth metals}
	involving carbon-to-carbon unsaturated	11/0838 • • {Aluminates; Silicates}
0.400	bonds}	11/0844 {Germanates}
8/887	{containing cross-linking agents}	11/085 • • {Vanadates}
8/90	• • • • of natural origin, e.g. polysaccharides, cellulose	11/0855 • • {Phosphates}
8/905	· · · · · {Biopolymers}	11/0861 {with alkaline earth metals}
8/92	characterised by their form or by the form of	11/0866 {with halogens} 11/0872 {with rare earth metals}
0,72	their components, e.g. encapsulated material	11/0872 • • • { with rare earth metals } 11/0877 • • • { Borates }
	(C09K 8/70 takes precedence)	11/0883 • {Arsenides; Nitrides; Phosphides}
8/94	Foams	11/0888 • • {Sulfates}
9/00	Tenebrescent materials, i.e. materials for which	11/0894 • • {Antimonates; Arsenates}
	the range of wavelengths for energy absorption is	11/54 containing zinc or cadmium
	changed as a result of excitation by some form of	11/55 containing beryllium, magnesium, alkali metals or
	energy	alkaline earth metals
	NOTE	11/56 containing sulfur
	When classifying in groups C09K 9/02 the	11/562 {Chalcogenides}
	chemical nature of the tenebrescent material can	11/565 {with zinc cadmium}
	be further indexed by using indexing codes chosen	11/567 {with alkaline earth metals}
	from <u>C09K 2211/00</u> - <u>C09K 2211/188</u>	11/57 containing manganese or rhenium
9/02	Organic tanabrascent materials	11/572 {Chalcogenides} 11/574 {with zinc or cadmium}
9/02	Organic tenebrescent materials	11/574 {with zinc or cadmium} 11/576 {with alkaline earth metals}
11/00	Luminescent, e.g. electroluminescent,	11/578 {Sulfates}
د شد د د	chemiluminescent materials	11/58 (Surfaces) 11/58 containing copper, silver or gold
11/01	Recovery of luminescent materials	11/582 {Chalcogenides}
11/02	Use of particular materials as binders, particle costings or suspension madia therefor	11/584 {with zinc or cadmium}
11/025	coatings or suspension media therefor	11/586 {with alkaline earth metals}
11/025	 {non-luminescent particle coatings or suspension media} 	11/588 {Sulfates}
11/04	containing natural or artificial radioactive elements	11/59 containing silicon
	or unspecified radioactive elements	11/592 {Chalcogenides}
11/06	containing organic luminescent materials	11/595 • • • • { with zinc or cadmium}
	NOTE	11/597 {Sulfates}
		11/60 containing iron, cobalt or nickel
	{When classifying in this group it is desirable to add the indexing codes of groups	11/602 {Chalcogenides}

11/605		11/607 (D)
11/605	• • • { with zinc or cadmium }	11/687 {Borates}
11/607	{Silicates}	11/688 {Sulfates}
11/61	• containing fluorine, chlorine, bromine, iodine or	11/69 containing vanadium
	unspecified halogen elements	11/691 {Chalcogenides}
11/611	{Chalcogenides}	11/693 {with zinc or cadmium}
11/612	• • • { with zinc or cadmium}	11/695 • • • • {with alkaline earth metals}
11/613	• • • { with alkali or alkakine earth metals }	11/696 • • • • {Halogenides}
11/615	• • • {Halogenides}	11/698 {Aluminates; Silicates}
11/616	• • • { with alkali or alkaline earth metals}	11/70 containing phosphorus
11/617	{Silicates}	11/701 {Chalcogenides}
11/618	{Sulfates}	11/703 {with zinc or cadmium}
11/62	containing gallium, indium or thallium	11/705 {Halogenides (<u>C09K 11/701</u> takes
11/621	{Chalcogenides}	precedence)}
11/623	• • • {with zinc or cadmium}	11/706 {Aluminates; Silicates}
11/625	• • • {with alkaline earth metals}	11/708 {Borates}
11/626	{Halogenides (C09K 11/621 takes	11/71 also containing alkaline earth metals
11/020	precedence)}	11/712 {Halogenides}
11/628	• • • {with alkali or alkaline earth metals}	
11/628	containing boron	,
11/632		11/717 {Aluminates; Silicates}
	· · · {Halogenides}	11/72 also containing halogen, e.g. halophosphates
11/634	• • • { with alkali or alkaline earth metals }	11/722 {Chalcogenides}
11/636	{Silicates}	11/725 {with alkaline earth metals}
11/638	{Sulfates}	11/727 {Aluminates; Silicates}
11/64	containing aluminium	11/73 also containing alkaline earth metals
11/641	· · · {Chalcogenides}	11/74 • containing arsenic, antimony or bismuth
11/642	• • • { with zinc or cadmium}	11/7407 {Chalcogenides}
11/643	• • • { with alkaline earth metals}	11/7414 { with zinc or cadmium}
11/644	• • • {Halogenides (<u>C09K 11/641</u> takes	11/7421 { with alkaline earth metals}
	precedence)}	11/7428 {Halogenides (<u>C09K 11/7407</u> takes
11/645	• • • { with alkali or alkaline earth metals }	precedence)}
11/646	{Silicates}	11/7435 { with alkali or alkaline earth metals}
11/647	{Borates}	11/7442 {Aluminates; Silicates}
11/648	· · · {Sulfates}	11/745 {Germanates}
11/65	containing carbon (in organic compounds)	11/7457 • • • {Vanadates; Chromates; Molybdates;
11/05	C09K 11/06)	Tungstates}
11/655	{Aluminates; Silicates}	11/7464 • • • {Phosphates}
11/66	• containing germanium, tin or lead	11/7471 {with alkaline earth metals}
11/661	{Chalcogenides}	
11/662	{with zinc or cadmium}	11/7478 {with halogens}
11/663	• • • {with zinc of cadmidni} • • • {with alkaline earth metals}	11/7485 {Borates}
		11/7492 {Arsenides; Nitrides; Phosphides}
11/664	{Halogenides (<u>C09K 11/661</u> takes precedence)}	11/75 containing antimony
11/665	•	11/751 {Chalcogenides}
11/665	• • • {with alkali or alkaline earth metals}	11/752 {with zinc or cadmium}
11/666	{Aluminates; Silicates}	11/753 {with alkaline earth metals}
11/667	{Borates}	11/755 {Halogenides (<u>C09K 11/751</u> takes
11/668	{Sulfates}	precedence)}
11/67	containing refractory metals	11/756 {with alkali or alkaline earth metals}
11/671	{Chalcogenides}	11/757 {Aluminates; Silicates}
11/672	• • • { with zinc or cadmium }	11/758 {Vandates; Chromates; Molybdates;
11/673	• • • { with alkaline earth metals}	Tungstates}
11/674	• • • {Halogenides (<u>C09K 11/671</u> takes precedence)}	11/76 also containing phosphorus and halogen, e.g. halophosphates
11/675	• • • {with alkali or alkaline earth metals}	11/765 {Borates}
11/676	{Aluminates; Silicates}	11/77 containing rare earth metals
11/677	• • • {Germanates}	11/7701 {Chalogenides}
11/678	{Borates}	11/7702 · · · · {with zinc or cadmium}
11/679	{Sulfates}	11/7703 {with alkaline earth metals}
11/67	containing chromium, molybdenum or tungsten	11/7704 {With alkaline cardi inclass} 11/7704 {Halogenides (C09K 11/7701 takes
11/681	{Chalcogenides}	precedence)}
	{Charcogenides} {with zinc or cadmium}	11/7705 {with alkali or alkaline earth metals}
11/682		11/7706 {Aluminates}
11/684	{ with alkaline earth metals}	11/7706 {Adminiates} 11/77062 {Silicates}
11/685	{Aluminates; Silicates}	11///002 • • (Silicates)

11/77064 {Aluminosilicates}	11/7745 { with zinc or cadmium }
11/77066 {Aluminium Nitrides or Aluminium	11/7745 { with zinc or cadmium} 11/7746 { with alkaline earth metals}
Oxynitrides }	
· · · · · · · · · · · · · · · · · · ·	11/7747 {Halogenides (<u>C09K 11/7744</u> takes
11/77069 {Silicon Nitrides or Silicon Oxynitrides}	precedence)}
11/77068 {Silicon Aluminium Nitrides or Silicon	11/7748 {with alkali or alkaline earth metals}
Aluminium Oxynitrides}	11/7749 {Aluminates}
11/7707 {Germanates}	11/77492 {Silicates}
11/7708 {Vanadates; Chromates; Molybdates;	11/77494 {Aluminosilicates}
Tungstates}	11/77496 {Aluminium Nitrides or Aluminium
11/7709 {Phosphates}	Oxynitrides}
11/771 {with alkaline earth metals}	11/77497 {Silicon Nitrides or Silicon Oxynitrides}
11/7711 {with halogens}	11/77498 (Silicon Aluminium Nitrides or Silicon
11/7712 {Borates}	Aluminium Oxynitrides}
11/7713 {Sulfates}	11/775 {Germanates}
11/7714 {Antimonates; Arsenates}	11/7751 {Vanadates; Chromates; Molybdates;
11/7715 {containing cerium}	Tungstates}
11/7716 {Chalcogenides}	11/7752 {Phosphates}
11/7717 { with zinc or cadmium}	11/7753 { with alkaline earth metals}
11/7718 { with alkaline earth metals}	11/7754 {with halogens}
11/7719 {Halogenides (<u>C09K 11/7716</u> takes	11/7755 {Borates}
precedence)}	11/7756 {containing neodynium}
11/772 {with alkali or alkaline earth metals}	11/7757 {Halogenides}
11/7721 {Aluminates}	11/7758 {Aluminates; Silicates}
11/77212 {Silicates}	11/7759 {containing samarium}
11/77214 {Aluminosilicates}	11/776 {Chalcogenides}
11/77216 {Aluminium Nitrides or Aluminium	11/7761 {with alkaline earth metals}
Oxynitrides}	11/7762 {Halogenides (<u>C09K 11/776</u> takes
11/77217 {Silicon Nitrides or Silicon Oxynitrides}	precedence)}
11/77218 {Silicon Aluminium Nitrides or Silicon	11/7763 {with alkali or alkaline earth metals}
Aluminium Oxynitrides}	11/7764 {Aluminates; Silicates}
11/7722 {Vanadates; Chromates; Molybdates;	11/7765 {Vanadates; Chromates; Molybdates;
Tungstates}	Tungstates}
11/7723 {Phosphates}	11/7766 {containing two or more rare earth metals}
11/7724 { with alkaline earth metals}	11/7767 {Chalcogenides}
11/7725 {with halogens}	11/7768 {with alkaline earth metals}
11/7726 {Borates}	11/7769 {Oxides (<u>C09K 11/7768</u> takes
11/7727 {Sulfates}	precedence)}
11/7728 {containing europium}	11/777 {Oxyhalogenides}
11/7729 {Chalcogenides}	11/7771 (Oxysulfides)
11/773 {with zinc or cadmium}	11/7772 {Halogenides (<u>C09K 11/7767</u> takes
11/7731 { with alkaline earth metals }	precedence)}
11/7732 {Halogenides}	11/7773 {with alkali or alkaline earth metal}
11/7733 { with alkali or alkaline earth metals}	11/7774 {Aluminates}
11/7734 {Aluminates}	11/77742 {Silicates}
11/77342 • • • • { Silicates }	11/77744 {Aluminosilicates}
11/77344 {Aluminosilicates}	11/77746 {Aluminium Nitrides or Aluminium
11/77346 {Aluminium Nitrides or Aluminium	Oxynitrides}
Oxynitrides}	11/77747 {Silicon Nitrides or Silicon Oxynitrides}
11/77347 {Silicon Nitrides or Silicon Oxynitrides}	11/77748 {Silicon Aluminium Nitrides or Silicon
11/77348 (Silicon Aluminium Nitrides or Silicon	Aluminium Oxynitrides}
Aluminium Oxynitrides}	11/7775 {Germanates}
11/7735 {Germanates}	11/7776 {Vanadates; Chromates; Molybdates;
11/7736 {Vanadates; Chromates; Molybdates;	Tungstates}
Tungstates}	11/7777 {Phosphates}
11/7737 {Phosphates}	11/7778 { with alkaline earth metals}
11/7738 { with alkaline earth metals}	11/7779 {with halogens}
11/7739 {with halogens}	11/778 {Borates}
11/774 {Borates}	11/7781 {Sulfates}
11/7741 {Sulfates}	11/7782 {Antimonates; Arsenates}
11/7742 {Antimonates; Arsenates}	11/7783 {containing two or more rare earth metals one
11/7743 {containing terbium}	of which being europium}
11/7744 • • • • {Chalcogenides}	11/7784 {Chalcogenides}

11/7785	• • • • {with zinc or cadmium}	15/00	Anti-oxidant compositions; Compositions
11/7786	• • • • { with alkaline earth metals }		inhibiting chemical change ({for use in well-
11/7787	• • • • • • • • • • • • • • • • • • •		specified applications, <u>see</u> the relevant places, e.g.
11/7700	precedence)}		in etching or pickling compositions <u>C09K 13/00</u> , <u>C23G</u> }, in foodstuffs <u>A21D</u> , <u>A23</u> , {in association
11/7788	{Oxyhalogenides}		with organic compounds $\underline{C07C}$, $\underline{C07D}$, in
11/7789	{Oxysulfides}		macromolecular compositions <u>C08</u> ; in liquid fuels
11/779	{Halogenides (<u>C09K 11/7784</u> takes precedence)}		or lubricants <u>C10</u> ; in fats, fatty substances, fatty
11/7791	• • • • { with alkali or alkaline earth metals }		oils or waxes <u>C11B 5/00</u> ; in detergents <u>C11D</u> ;
11/7792	{Aluminates}		{coating or impregnating carbon or graphite based
	{Silicates}		bodies to protect them from oxidation <u>C04B 41/45</u> };
	{Aluminosilicates}		corrosion inhibiting compositions for metallic
	{Aluminium Nitrides or Aluminium		material <u>C23F 11/00</u>)
	Oxynitrides}		NOTE
11/77927	{Silicon Nitrides or Silicon Oxynitrides}		In groups C09K 15/02 - C09K 15/34, in the
11/77928	{Silicon Aluminium Nitrides or Silicon		absence of an indication to the contrary, a
	Aluminium Oxynitrides}		composition is classified in the last appropriate
11/7793	{Germanates}		place.
11/7794	{Vanadates; Chromates; Molybdates;	15/02	containing inorganic compounds
	Tungstates}	15/04	containing morganic compounds containing organic compounds
11/7795	· · · {Phosphates}	15/06	containing organic compounds containing oxygen
11/7796	• • • • {with alkaline earth metals}	15/08	containing oxygen containing a phenol or quinone moiety
11/7797	{Borates}	15/10	containing a phonor or quinone morety containing sulfur
11/7798	{Antimonates; Arsenates}	15/12	containing sulfur and oxygen
11/87	containing platina group metals	15/14	• • containing a phenol or quinone moiety
11/873	(Chalcogenides)	15/16	containing nitrogen
11/876 11/88	• • • { with zinc or cadmium}	15/18	containing an amine or imine moiety
11/88	containing selenium, tellurium or unspecified chalcogen elements	15/20	containing nitrogen and oxygen
11/881	{Chalcogenides}	15/22	containing an amide or imide moiety
11/883	• • • {with zinc or cadmium}	15/24	containing a phenol or quinone moiety
11/885	{with alkaline earth metals}	15/26	containing nitrogen and sulfur
11/886	• • • {with rare earth metals}	15/28	containing nitrogen, oxygen and sulfur
11/888	{Borates}	15/30	containing heterocyclic ring with at least one
11/89	containing mercury		nitrogen atom as ring member
11/892	{Chalcogenides}	15/32	containing {two or more of} boron, silicon,
11/895	{Halogenides (C09K 11/892 takes	15/222	phosphorus, selenium, tellurium or a metal
	precedence)}	15/322	• • {containing only phosphorus}
11/897	• • • { with alkali or alkaline metals }	15/324	{containing phosphorus and sulfur}
13/00	Etching, surface-brightening or pickling	15/326	 {containing only metals} {containing boron, silicon, selenium or
13/00	compositions (for glass C03C 15/00, {C03C 25/66;	15/328	tellurium}
	for mortars, concrete, artificial or natural stone or	15/34	containing plant or animal materials of unknown
	ceramics <u>C04B 41/5338</u> }; for metallic material <u>C23F</u> ,	10,01	composition
	<u>C23G 1/00</u> , <u>C25F 1/00</u> ; {for semi-conductors <u>H01L</u> })	1=100	•
	NOTE	17/00	Soil-conditioning materials or soil-stabilising
			materials (specially adapted for boreholes or wells <u>C09K 8/00</u> ; fertilisers <u>C05</u> ; consolidating by placing
	In groups <u>C09K 13/02</u> - <u>C09K 13/12</u> , in the absence of an indication to the contrary, materials		solidifying or pore-filling substances in the soil
	are classified in the last appropriate place.		E02D 3/12)
13/02	. containing an alkali metal hydroxide		NOTES
13/04	containing an inorganic acid		1. This group <u>covers</u> mixtures of soil-conditioning
13/06	• with organic material		or soil-stabilising materials with fertilisers
13/08	containing a fluorine compound		characterised by their soil-conditioning or soil- stabilising activity.
13/10	• containing a boron compound		2. This group <u>does not cover</u> mixtures of soil-
13/12	containing heavy metal salts in an amount of at least		conditioning or soil-stabilising materials with
	50% of the non-solvent components		fertilisers characterised by their fertilising activity
			which are covered by subclass <u>C05G</u> .
			3 For the purpose of classification in this group, the

3. For the purpose of classification in this group, the presence of fertilisers in the composition is not

taken into account.

00711		
C09K 17/00		
(continued)	4. In groups <u>C09K 17/02</u> - <u>C09K 17/50</u> , in the	19/0225 {Ferroelectric}
	absence of an indication to the contrary, materials	19/0233 • • {Electroclinic}
	are classified in the last appropriate place.	19/0241 {Ferrielectric; Ferromagnetic}
4=100		19/025 • • {Ferronematic; Ferrosmetic}
17/02	 containing inorganic compounds only 	19/0258 • {Flexoelectric}
17/04	• applied in a physical form other than a solution or	19/0266 {Antiferroelectrics}
	a grout, e.g. as granules or gases	
17/045	• • • {applied as gases}	19/0275 • • {Blue phase}
17/06	Calcium compounds, e.g. lime	19/0283 {Cubic phase}
17/08	Aluminium compounds, e.g. aluminium	19/0291 {anticlinic}
-1,700	hydroxide	19/04 . characterised by the chemical structure of the liquid
17/10	Cements, e.g. Portland cement	crystal components {, e.g. by a specific unit}
17/12	Water-soluble silicates, e.g. waterglass	19/0403 {the structure containing one or more specific,
	 containing organic compounds only 	optionally substituted ring or ring systems}
17/14		2019/0407 {containing a carbocyclic ring, e.g.
17/16	applied in a physical form other than a solution or	dicyano-benzene, chlorofluoro-benzene or
	a grout, e.g. as platelets or granules	cyclohexanone}
17/18	Prepolymers; Macromolecular compounds	2019/0411 {containing a chlorofluoro-benzene, e.g. 2-
17/20	Vinyl polymers	chloro-3-fluoro-phenylene-1,4-diyl}
17/22	• • • Polyacrylates; Polymethacrylates	2019/0414 {containing a heterocyclic ring}
17/24	Condensation polymers of aldehydes or ketones	2019/0418 {containing a heterocyclic ring}
17/26	Phenol-aldehyde condensation polymers	, ,
17/28	Urea-aldehyde condensation polymers	liquid crystals}
17/30	Polyisocyanates; Polyurethanes	19/0422 {Sugars (polysaccharides <u>C09K 19/3819</u>)}
17/32	of natural origin, e.g. cellulosic materials	2019/0425 {characterized by a specific unit that results in a
		functional effect}
17/34	Bituminous materials	2019/0429 {the specific unit being a carbocyclic or
17/36	Compounds having one or more carbon-to-silicon	heterocyclic discotic unit}
	linkages	2019/0433 • • • {the specific unit being a luminescent or
17/38	Siloxanes	electroluminescent unit}
17/40	 containing mixtures of inorganic and organic 	2019/0437 {the specific unit being an optically active
	compounds	chain used as linking group between rings or as
17/42	Inorganic compounds mixed with organic active	end group}
	ingredients, e.g. accelerators	2019/044 { the specific unit being a perfluoro chain used
17/44	the inorganic compound being cement	as an end group}
17/46	the inorganic compound being a water-soluble	2019/0444 • • {characterized by a linking chain between
	silicate	rings or ring systems, a bridging chain between
17/48	Organic compounds mixed with inorganic active	extensive mesogenic moieties or an end chain
177 10	ingredients, e.g. polymerisation catalysts	group}
17/50	the organic compound being of natural origin,	2019/0448 { the end chain group being a polymerizable
17/30	e.g. cellulose derivatives	end group, e.gSp-P or acrylate}
17/50	_	2019/0451 { the end chain group being a
17/52	. Mulches	CH ₃ CH=CHCH ₂ CH ₂ - chain}
19/00	Liquid crystal materials	
		2019/0455 {the linking chain being a -CF ₂ CF ₂ - , -
	NOTES	CF ₂ CF ₂ CF ₂ CF ₂ - or -CH ₂ CF ₂ CF ₂ CH ₂ - chain}
	1. In groups <u>C09K 19/02</u> - <u>C09K 19/60</u> ,	2019/0459 {the linking chain being a -CF=CF- chain, e.g.
	{ with the exception of groups	1,2-difluoroethen-1,2-diyl}
	<u>C09K 19/0208</u> - <u>C09K 19/0283</u> }, in the absence	2019/0462 {the linking chain being a - CF_2CF_2O - chain}
	of an indication to the contrary, materials are	2019/0466 • • • {the linking chain being a -CF $_2$ O- chain}
	classified in the last appropriate place.	2019/047 {the linking chain being a -CH ₂ CF ₂ O- chain}
	2. Mixtures containing two or more liquid crystal	2019/0474 {the linking chain being a -CHFO- chain}
	compounds covered individually by the same one	2019/0477 {characterized by the positioning of substituents
	of groups <u>C09K 19/04</u> - <u>C09K 19/40</u> are classified	on phenylene}
	only in that group.	2019/0481 {Phenylene substituted in meta position}
	3. If liquid crystal components of the mixtures	2019/0485 {Phenylene substituted in ortho position}
	classified in groups C09K 19/42 - C09K 19/50	2019/0488 {characterized by a special bonding}
	are of importance as such, they should also be	
	are of importance as such, they should also be	2019/0492 {the special bonding being an hydrogen bond}
	classified according to the compounds in groups	
	classified according to the compounds in groups	2019/0496 {the special bonding being a specific pi-
19/02	classified according to the compounds in groups <u>C09K 19/04</u> - <u>C09K 19/40</u> .	conjugated group}
		conjugated group} 19/06 . Non-steroidal liquid crystal compounds
13,02	<u>C09K 19/04</u> - <u>C09K 19/40</u> .	conjugated group}
	 C09K 19/04 - C09K 19/40. characterised by optical, electrical or physical properties of the components, in general 	conjugated group} 19/06 . Non-steroidal liquid crystal compounds
19/0208	 C09K 19/04 - C09K 19/40. characterised by optical, electrical or physical properties of the components, in general {Twisted Nematic (T.N.); Super Twisted Nematic 	conjugated group} 19/06 . Non-steroidal liquid crystal compounds 19/061 {Linear compounds without any rings}
19/0208	 C09K 19/04 - C09K 19/40. characterised by optical, electrical or physical properties of the components, in general {Twisted Nematic (T.N.); Super Twisted Nematic (S.T.N.); Optical Mode Interference (O.M.I.)} 	conjugated group} 19/06 Non-steroidal liquid crystal compounds 19/061 (Linear compounds without any rings) (containing one non-condensed benzene ring)
	 C09K 19/04 - C09K 19/40. characterised by optical, electrical or physical properties of the components, in general {Twisted Nematic (T.N.); Super Twisted Nematic 	conjugated group} 19/06 Non-steroidal liquid crystal compounds 19/061 Linear compounds without any rings} 19/062 Containing one non-condensed benzene ring} 19/063 Containing one non-condensed saturated non-

19/065	• • • {containing one non-condensed unsaturated non-aromatic ring, e.g. cyclohexene ring}	2019/2057 {Ph-Ph-Ph-Ph-COO-Ph, or more Ph rings}
19/066	• • • {containing one heterocyclic ring having	2019/2064 {Ph-Ph-COO-Ph-Ph}
19/067	oxygen as heteroatom} {containing one heterocyclic ring having	2019/2071 {Ph-Ph-Ph-COO-Ph-Ph, or more Ph rings}
17/00/	nitrogen as heteroatom}	2019/2078 {Ph-COO-Ph-COO-Ph}
19/068	• • {containing one heterocyclic ring having sulfur	2019/2085 {Ph-CH=CH-Ph-COO-Ph}
10/00	as heteroatom}	2019/2092 {Ph-C≡C-Ph-COO-Ph}
19/08 19/10	 containing at least two non-condensed rings containing at least two benzene rings 	19/22 linked by a chain containing carbon and
19/10	at least two benzene rings directly linked,	nitrogen atoms as chain links, e.g. Schiff bases
	e.g. biphenyls	19/24 linked by a chain containing nitrogen-to-
2019/121	{Compounds containing phenylene-1,4-	nitrogen bonds
2010/122	diyl (-Ph-)}	19/26 Azoxy compounds
2019/122 2019/123	{Ph-Ph} {Ph-Ph-Ph}	19/28 linked by a chain containing carbon and sulfur atoms as chain links, e.g. thioesters
2019/123	{Ph-Ph-Ph}	19/30 containing saturated or unsaturated non-
2019/125	Ph-Ph-Ph-Ph or more Ph rings	aromatic rings, e.g. cyclohexane rings
19/126	{Compounds containing at least one	19/3001 {Cyclohexane rings}
	asymmetric carbon atom}	19/3003 {Compounds containing at least two
2019/127	{Compounds containing phenylene-1,3-	rings in which the different rings are
2010/129	diyl}	directly linked (covalent bond)} 2019/3004 {Cy-Cy}
2019/128	{Compounds containing phenylene-1,2-diyl}	2019/3006
19/14	linked by a carbon chain	2019/3007
19/16	the chain containing carbon-to-carbon	2019/3009 {Cy-Ph}
	double bonds, e.g. stilbenes	2019/301 {Cy-Cy-Ph}
2019/161	• • • • • • • • • • • • • • • • • • •	2019/3012 {Cy-Cy-Ph, or more Cy rings}
2019/163	{Ph-Ph-CH=CH-Ph}	2019/3013 {Cy-Ph-Cy}
2019/165	Ph-Ph-CH=CH-Ph-Ph	2019/3015 {Cy-Cy-Ph-Cy}
2019/166	Ph-Ph-Ph-CH=CH-Ph}	2019/3016 {Cy-Ph-Ph}
2019/168 19/18	Ph-CH=CH-Ph-CH=CH-Ph}	2019/3018 {Ph-Cy-Ph}
19/18	triple bonds, e.g. tolans	2019/3019 {Cy-Cy-Ph-Ph} 2019/3021 {Cy-Ph-Ph-Cy}
2019/181	Ph-C≡C-Ph}	2019/3022
2019/183		2019/3024 {Ph-Cy-Cy-Ph}
2019/185	\bullet $\{Ph-Ph-C\equiv C-Ph-Ph\}$	2019/3025 {Cy-Ph-Ph-Ph}
2019/186	{Ph-C≡C-C≡C-Ph}	2019/3027 (Compounds comprising 1,4-
2019/188	{Ph-C≡C-Ph-C≡C-Ph}	cyclohexylene and 2,3-difluoro-1,4-
19/20	linked by a chain containing carbon and oxygen atoms as chain links, e.g. esters {or	phenylene} 19/3028 {in which at least two rings are linked
	ethers}	19/3028 {in which at least two rings are linked by a carbon chain containing carbon to
19/2007	{the chain containing -COO- or -OCO-	carbon single bonds}
	groups}	2019/303 $\{Cy-C_2H_4-Cy\}$
19/2014	{containing additionally a linking	2019/3031 {Cy-Cy-C ₂ H ₄ -Cy}
	group other than -COO- or -OCO-,	2019/3033 $\{Cy-Cy-C_2H_4-Cy\}$
	e.gCH2-CH2-, -CH=CH-, -C=C-; containing at least one additional	$2019/3034$ {Cy-Cy-C ₂ H ₄ -Cy-Cy}
	carbon atom in the chain containing	2019/3036 {Cy-C ₂ H ₄ -Ph}
	-COO- or -OCO- groups, e.g	2019/3037
	(CH2)m-COO-(CH2)n-}	2019/3039 {Cy-Cy-Cy-C ₂ H ₄ -Ph} 2019/304 {Cy-C ₂ H ₄ -Ph-Ph}
19/2021	{Compounds containing at least one	2019/3042
10/2029	asymmetric carbon atom}	2019/3043 {Cy-Cy-C ₂ H ₄ -Ph-Cy}
19/2028	(containing additionally a linking group other than -COO- or -OCO-,	2019/3045 $\{\text{Cy-Ph-C}_2\text{H}_4\text{-Ph-Cy}\}$
	e.gCH ₂ -CH ₂ -, -CH=CH-, -C=C-;	2019/3046 $\{Cy-C_2H_4-Ph-C_2H_4-Cy\}$
	containing at least one additional	19/3048 {in which at least two rings are linked
	carbon atom in the chain containing	by a carbon chain containing carbon to
	-COO- or -OCO- groups, e.g COO-CH*-CH ₃ }	carbon double bonds} 2019/305 {Cy-CH=CH-Cy}
2019/2035	• • • • • • • • • • • • • • • • • • •	2019/3051 {Cy-CH=CH-Cy-Ph}
2019/2033	{Ph-Ph-COO-Ph}	2019/3053
2019/205	{Ph-Ph-COO-Ph}	2019/3054 {Cy-Cy-CH=CH-Ph}
		2019/3056 {Cy-Ph-CH=CH-Ph}

2019/3057	{Cy-Ph-Ph-CH=CH-Ph}	2019/3413 {Three-membered member ring with
19/3059	{in which at least two rings are linked	oxygen(s), e.g. oxirane in fused, bridged
	by a carbon chain containing carbon to	or spiro ring systems}
	carbon triple bonds}	2019/3416 {the heterocyclic ring being a four-
2019/306	{Cy-C≡C-Cy}	membered ring, e.g. oxetane}
2019/3062	{Cy-C≡C-Ph}	2019/3419 {Four-membered ring with oxygen(s), e.g. oxetane, in fused, bridged or spiro
2019/3063	{Cy-Ph-C≡C-Ph}	ring systems}
2019/3065	{Cy-Ph-Ph-C≡C-Ph}	2019/3422 {the heterocyclic ring being a six-
19/3066	{in which the rings are linked by a chain containing carbon and oxygen atoms,	membered ring}
	e.g. esters or ethers}	2019/3425 {Six-membered ring with oxygen(s) in
19/3068	{chain containing -COO- or -OCO-	fused, bridged or spiro ring systems}
	groups}	2019/3427 {Six-membered ring with 3 or more
2019/3069	{Cy-COO-Cy}	oxygen atoms}
	$\{Cy-Cy-COO-Cy\}$	2019/343 {the heterocyclic ring being a seven- membered ring}
2019/3072	{Cy-Cy-COO-Cy, or more Cy	2019/3433 {Seven-membered ring with oxygen(s)
2010/2074	rings}	in fused, bridged or spiro ring systems
2019/30/4	{Cy-Cy-COO-Cy-Cy, or more Cy rings}	2019/3436 {Seven-membered ring with 3 or more
2019/3075	{Cy-COO-Ph}	oxygen atoms}
2019/3077		2019/3438 {Crown ethers}
2019/3078	{Cy-Cy-COO-Ph-Cy}	19/3441 {having nitrogen as hetero atom}
2019/308	{Cy-Cy-COO-Ph-Ph}	19/3444 {the heterocyclic ring being a six-
2019/3081	{Cy-Ph-COO-Cy}	membered aromatic ring containing one
2019/3083	{Cy-Ph-COO-Ph}	nitrogen atom, e.g. pyridine}
2019/3084	{Cy-Ph-COO-Ph-Cy}	19/3447 {Pyridine condensed or bridged with another ring system, e.g. quinoline or
19/3086	• • • • • {in which at least two rings are linked	acridine}
	by a chain containing nitrogen atoms}	19/345 {the heterocyclic ring being a six-
19/3087	{in which at least two rings are linked	membered aromatic ring containing two
2010/2090	by a chain containing sulfur atoms}	nitrogen atoms}
2019/3089 2019/309	{Cy-S-Cy} {Cy-S-Ph}	19/3452 {Pyrazine}
2019/3092	{Cy-S-H}	19/3455 {Pyridazine}
2019/3093	{Cy-Ph-S-Ph}	19/3458 {Uncondensed pyrimidines}
	• • • • • (e) The Thi	19/3461 {Pyrimidine-tolane}
	monoterpene menthyl}	19/3463 {Pyrimidine with a carbon chain containing at least one asymmetric
2019/3096	• • • • {Cyclobutane rings}	carbon atom, i.e. optically active
19/3098	• • • • {Unsaturated non-aromatic rings, e.g.	pyrimidines}
	cyclohexene rings}	19/3466 {Pyrimidine with at least another
19/32	• • containing condensed ring systems, i.e. fused,	heterocycle in the chain}
10/221	bridged or spiro ring systems {Compounds containing a bicyclo [2,2,2]	19/3469 {Pyrimidine with a specific end-group
19/321	octane ring }	other than alkyl, alkoxy or -C*-} 19/3472 {Pyrimidine condensed or bridged with
19/322	• • • {Compounds containing a naphthalene ring	19/3472 {Pyrimidine condensed or bridged with another ring system}
	or a completely or partially hydrogenated	19/3475 {the heterocyclic ring being a six-
	naphthalene ring}	membered aromatic ring containing at
2019/323	{containing a binaphthyl}	least three nitrogen atoms}
2019/324	• • • • {containing a dihydronaphthalene}	19/3477 {the heterocyclic ring being a five-
2019/325	{containing a tetrahydronaphthalene, e.g.	membered aromatic ring containing at
2010/226	-2,6-diyl (tetralin)}	least one nitrogen atom}
2019/326	• • • • {containing a decahydronaphthalene, e.g2,6-diyl (decalin)}	19/348 {containing at least two nitrogen atoms} 19/3483 {the heterocyclic ring being a non-
2019/327	{containing a spiro ring system}	aromatic ring}
2019/328	{containing a triphenylene ring system}	19/3486 {the heterocyclic ring containing
19/34	containing at least one heterocyclic ring	nitrogen and oxygen atoms}
19/3402	• • • {having oxygen as hetero atom (sugars	19/3488 {the heterocyclic ring having more
	<u>C09K 19/0422</u>)}	than 6 members, e.g. macrocycles,
19/3405	• • • • {the heterocyclic ring being a five-	phthalocyanines}
2010/2400	membered ring}	19/3491 {having sulfur as hetero atom}
2019/3408	Five-membered ring with oxygen(s) in fused, bridged or spiro ring systems}	19/3494 {the heterocyclic ring containing sulfur and oxygen atoms}
19/3411	{the heterocyclic ring being a three-	19/3497 {the heterocyclic ring containing sulfur
1//5711	membered ring }	and nitrogen atoms}
	<i>5,</i>	,

40.00		40/504	
19/36	Steroidal liquid crystal compounds	19/584	{having a condensed ring system;
19/38	Polymers	10/506	macrocyclic compounds}
19/3804	• • { with mesogenic groups in the main chain }	19/586	• • • {Optically active dopants; chiral dopants}
19/3809	• • • {Polyesters; Polyester derivatives, e.g.	19/588	• • • {Heterocyclic compounds}
10/2014	polyamides}	19/60	Pleochroic dyes
19/3814	{Polyethers}	19/601	{Azoic}
19/3819	{Polysaccharides or derivatives thereof}	19/603	{Anthroquinonic}
19/3823	• • • • {containing heterocycles having at least one	19/605	• • • {Azomethine dyes}
40/2020	nitrogen as ring hetero atom}	19/606	• • • {Perylene dyes}
19/3828	• • • • {containing triazine rings}	19/608	• • • {Quinoxaline dyes}
19/3833	• • • { with mesogenic groups in the side chain }	21/00	Fireproofing materials (for use in a particular
19/3838	• • • {Polyesters; Polyester derivatives}	21,00	application, see the relevant places, e.g. fireproofing
19/3842	• • • • {Polyvinyl derivatives}		of wood <u>B27K</u> , of polymers <u>C08</u> , of textiles <u>D06M</u> , of
19/3847	· · · · {Polyvinylethers}		paper D21H; fireproof paints C09D 5/18)
19/3852	• • • • {Poly(meth)acrylate derivatives}		NOTE
19/3857	• • • • {containing at least one asymmetric		
10/2071	carbon atom}		In groups $\frac{\text{C09K 21/02}}{\text{C09K 21/14}}$, in the
19/3861	{containing condensed ring systems}		absence of an indication to the contrary, materials
19/3866	• • • • {containing steroid groups}		are classified in the last appropriate place.
19/3871	{containing amino acid derivatives}	21/02	Inorganic materials
19/3876	• • • {Polyoxyalkylene polymers}	21/04	containing phosphorus
19/388	· · · · {Polyepoxides}	21/06	Organic materials
19/3885	· · · · {Polyurethanes}	21/08	containing halogen
19/389	· · · · {Polypeptides}	21/10	containing narogen containing nitrogen
19/3895	• • • {containing two or more mesogenic groups	21/10	containing phosphorus
	per monomer unit, e.g. polyitaconates,	21/12	Macromolecular materials
40/40	polymaleates}	21/14	• Macromolecular materials
19/40	containing elements other than carbon, hydrogen,	23/00	Use of substances as emulsifying, wetting,
	halogen, oxygen, nitrogen or sulfur, e.g. silicon, metals		dispersing, or foam-producing agents
10/402	{containing deuterium}		WARNING
19/402	• • { containing deuterium }		<u></u>
			C C00K 23/00: ' 11 1 :C' '
19/404	• • {containing boron or phosphorus}		Group C09K 23/00 is impacted by reclassification
19/404 19/406	 {containing boron or phosphorus} {containing silicon}		into groups <u>C09K 23/005</u> , <u>C09K 23/02</u> ,
19/404 19/406 19/408	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes}		into groups <u>C09K 23/005</u> , <u>C09K 23/02</u> , <u>C09K 23/04</u> , <u>C09K 23/06</u> , <u>C09K 23/08</u> ,
19/404 19/406	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered 		into groups <u>C09K 23/005</u> , <u>C09K 23/02</u> , <u>C09K 23/04</u> , <u>C09K 23/06</u> , <u>C09K 23/08</u> , <u>C09K 23/10</u> , <u>C09K 23/12</u> , <u>C09K 23/14</u> ,
19/404 19/406 19/408	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups 		into groups <u>C09K 23/005</u> , <u>C09K 23/02</u> , <u>C09K 23/04</u> , <u>C09K 23/06</u> , <u>C09K 23/08</u> , <u>C09K 23/10</u> , <u>C09K 23/12</u> , <u>C09K 23/14</u> , <u>C09K 23/16</u> , <u>C09K 23/18</u> , <u>C09K 23/20</u> ,
19/404 19/406 19/408 19/42	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 		into groups <u>C09K 23/005</u> , <u>C09K 23/02</u> , <u>C09K 23/04</u> , <u>C09K 23/06</u> , <u>C09K 23/08</u> , <u>C09K 23/10</u> , <u>C09K 23/12</u> , <u>C09K 23/14</u> , <u>C09K 23/16</u> , <u>C09K 23/18</u> , <u>C09K 23/20</u> , <u>C09K 23/22</u> , <u>C09K 23/24</u> , <u>C09K 23/26</u> ,
19/404 19/406 19/408	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings 		into groups <u>C09K 23/005</u> , <u>C09K 23/02</u> , <u>C09K 23/04</u> , <u>C09K 23/06</u> , <u>C09K 23/08</u> , <u>C09K 23/10</u> , <u>C09K 23/12</u> , <u>C09K 23/14</u> , <u>C09K 23/16</u> , <u>C09K 23/18</u> , <u>C09K 23/20</u> ,
19/404 19/406 19/408 19/42	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked 		into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32,
19/404 19/406 19/408 19/42 19/44	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups		into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50,
19/404 19/406 19/408 19/42 19/44 19/46 19/48	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups		into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44,
19/404 19/406 19/408 19/42 19/44 19/46 19/48 19/50	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds 		into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50,
19/404 19/406 19/408 19/42 19/44 19/46 19/48	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid 		into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56.
19/404 19/406 19/408 19/42 19/44 19/46 19/48 19/50	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: 	22/002	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/34, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/46, C09K 23/46, C09K 23/46, C09K 23/46, C09K 23/46, C09K 23/50, C09K 23/52, C09K 23/52, C09K 23/52, C09K 23/54, C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search.
19/404 19/406 19/408 19/42 19/44 19/46 19/48 19/50 19/52	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} 	23/002	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/34, C09K 23/34, C09K 23/42, C09K 23/44, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/53, C09K 23/53, C09K 23/53, C09K 23/53, C09K 23/53, C09K 23/53, C09K 23/54, C09K 23/54, C09K 23/55, C09K
19/404 19/406 19/408 19/42 19/44 19/46 19/48 19/50 19/52	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} 	23/002 23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/42, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and
19/404 19/406 19/408 19/42 19/44 19/46 19/48 19/50 19/52 2019/521 2019/523	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen}
19/404 19/406 19/408 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} 		into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/42, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or
19/404 19/406 19/408 19/42 19/44 19/44 19/46 19/48 19/50 19/52 2019/521 2019/523 2019/525 2019/526	 . (containing boron or phosphorus) . (containing silicon) . (Polysiloxanes) . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 . containing compounds with benzene rings directly linked . containing esters . containing Schiff bases . containing steroidal liquid crystal compounds characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium}
19/404 19/406 19/408 19/42 19/44 19/44 19/46 19/48 19/50 19/52 2019/521 2019/523 2019/525 2019/526 2019/528	 . (containing boron or phosphorus) . (containing silicon) . (Polysiloxanes) . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 . containing compounds with benzene rings directly linked . containing esters . containing Schiff bases . containing steroidal liquid crystal compounds characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Solvents} . {Solvents} . {Gelling agents} . {Surfactants} 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/42, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or
19/404 19/406 19/408 19/42 19/44 19/44 19/46 19/48 19/50 19/52 2019/521 2019/523 2019/525 2019/526	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Solvents} . {Solvents} . {Solvents} . {Surfactants} . Additives having no specific mesophase 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54	 {containing boron or phosphorus} {containing silicon} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium}
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing Schiff bases containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Sulvents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} . {Macromolecular compounds} 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Sulvents} . {Sulvents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} {Macromolecular compounds} {as dispersing or encapsulating medium 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending reclassification of documents from group C09K 23/00.
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54 19/544	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing esters containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} {Macromolecular compounds} {as dispersing or encapsulating medium around the liquid crystal} 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending reclassification of documents from group C09K 23/00. Groups C09K 23/00 and C09K 23/005 should
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54 19/544 2019/546	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing steroidal liquid crystal compounds characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} {Macromolecular compounds} {as dispersing or encapsulating medium around the liquid crystal} {creating a polymeric network} 	23/003	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending reclassification of documents from group C09K 23/00.
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54 19/544	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing steroidal liquid crystal compounds containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} {Macromolecular compounds} {as dispersing or encapsulating medium around the liquid crystal} {creating a polymeric network} {stabilizing the alignment; Polymer 	23/003 23/005	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending reclassification of documents from group C09K 23/00. Groups C09K 23/00 and C09K 23/005 should be considered in order to perform a complete search.
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54 19/544 2019/546 2019/548	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing Schiff bases containing Steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} {Macromolecular compounds} {as dispersing or encapsulating medium around the liquid crystal} {stabilizing the alignment; Polymer stabilized alignment} 	23/003 23/005 23/007	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/48, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending reclassification of documents from group C09K 23/00. Groups C09K 23/00 and C09K 23/005 should be considered in order to perform a complete search. • {Organic compounds containing halogen}
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54 19/542 19/544 2019/546 2019/548	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing Schiff bases containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} {Macromolecular compounds} {as dispersing or encapsulating medium around the liquid crystal} {creating a polymeric network} {stabilizing the alignment; Polymer stabilized alignment} Aligning agents 	23/003 23/005 23/007 23/017	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/42, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending reclassification of documents from group C09K 23/00. Groups C09K 23/00 and C09K 23/005 should be considered in order to perform a complete search. • {Organic compounds containing halogen} • {Organic compounds containing halogen}
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54 19/542 19/544 2019/548 19/56 19/58	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing Schiff bases containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} {Macromolecular compounds} {as dispersing or encapsulating medium around the liquid crystal} {creating a polymeric network} {stabilizing the alignment; Polymer stabilized alignment} Aligning agents . Dopants or charge transfer agents 	23/003 23/005 23/007	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/42, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending reclassification of documents from group C09K 23/00. Groups C09K 23/00 and C09K 23/005 should be considered in order to perform a complete search. • {Organic compounds containing halogen} • {Mixtures of compounds} • {Mixtures of two or more different organic
19/404 19/406 19/408 19/42 19/42 19/44 19/46 19/48 19/50 19/52 2019/523 2019/523 2019/525 2019/526 2019/528 19/54 19/542 19/544 2019/546 2019/548	 {containing boron or phosphorus} {Polysiloxanes} {Polysiloxanes} . Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06 - C09K 19/40 containing compounds with benzene rings directly linked containing Schiff bases containing Schiff bases containing steroidal liquid crystal compounds . characterised by components which are not liquid crystals, e.g. additives {with special physical aspect: solvents, solid particles} . {Inorganic solid particles} . {Organic solid particles} . {Solvents} . {Gelling agents} . {Surfactants} . Additives having no specific mesophase {characterised by their chemical composition} {Macromolecular compounds} {as dispersing or encapsulating medium around the liquid crystal} {creating a polymeric network} {stabilizing the alignment; Polymer stabilized alignment} Aligning agents 	23/003 23/005 23/007 23/017	into groups C09K 23/005, C09K 23/02, C09K 23/04, C09K 23/06, C09K 23/08, C09K 23/10, C09K 23/12, C09K 23/14, C09K 23/16, C09K 23/18, C09K 23/20, C09K 23/22, C09K 23/24, C09K 23/26, C09K 23/28, C09K 23/30, C09K 23/32, C09K 23/34, C09K 23/36, C09K 23/38, C09K 23/40, C09K 23/42, C09K 23/44, C09K 23/46, C09K 23/42, C09K 23/50, C09K 23/52, C09K 23/54 and C09K 23/56. All groups listed in this Warning should be considered in order to perform a complete search. • {Inorganic compounds} • {Organic compounds containing only carbon and hydrogen} • {Organic compounds containing selenium or tellurium} WARNING Group C09K 23/005 is incomplete pending reclassification of documents from group C09K 23/00. Groups C09K 23/00 and C09K 23/005 should be considered in order to perform a complete search. • {Organic compounds containing halogen} • {Organic compounds containing halogen}

23/02 • Alkyl sulfonates or sulfuric acid ester salts derived from monohydric alcohols

WARNING

Group C09K 23/02 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K</u> 23/00 and <u>C09K</u> 23/02 should be considered in order to perform a complete search.

 Sulfonates or sulfuric acid ester salts derived from polyhydric alcohols or amino alcohols or derivatives thereof (sulfated or sulfonated fatty oils C09K 23/08)

WARNING

Group C09K 23/04 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/04</u> should be considered in order to perform a complete search.

23/06 • Esters of higher fatty acids with hydroxyalkylated sulfonic acids or salts thereof

WARNING

Group <u>C09K 23/06</u> is incomplete pending reclassification of documents from group <u>C09K 23/00</u>.

Groups <u>C09K 23/00</u> and <u>C09K 23/06</u> should be considered in order to perform a complete search.

 Sulfation or sulfonation products of fats, oils, waxes, or higher fatty acids or esters thereof with monovalent alcohols

WARNING

Group C09K 23/08 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/08</u> should be considered in order to perform a complete search.

23/10 • Derivatives of low-molecular-weight sulfocarboxylic acids or sulfopolycarboxylic acids

WARNING

Group C09K 23/10 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/10</u> should be considered in order to perform a complete search.

23/12 Sulfonates of aromatic or alkylated aromatic compounds

WARNING

Group C09K 23/12 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/12</u> should be considered in order to perform a complete search.

23/14 . Derivatives of phosphoric acid

WARNING

Group C09K 23/14 is incomplete pending reclassification of documents from group C09K 23/00.

Group <u>C09K 23/14</u> is also impacted by reclassification into group <u>C09K 23/20</u>.

Groups <u>C09K 23/00</u>, <u>C09K 23/14</u> and <u>C09K 23/20</u> should be considered in order to perform a complete search.

23/16 • Amines or polyamines

WARNING

Group C09K 23/16 is incomplete pending reclassification of documents from group C09K 23/00.

Group $\underline{\text{C09K 23/16}}$ is also impacted by reclassification into group $\underline{\text{C09K 23/30}}$.

Groups <u>C09K 23/00</u>, <u>C09K 23/16</u> and <u>C09K 23/30</u> should be considered in order to perform a complete search.

23/18 . Quaternary ammonium compounds

WARNING

Group C09K 23/18 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/18</u> should be considered in order to perform a complete search.

23/20 • Phosphonium and sulfonium compounds

WARNING

Group <u>C09K 23/20</u> is incomplete pending reclassification of documents from groups <u>C09K 23/00</u> and <u>C09K 23/14</u>.

Groups C09K 23/00, C09K 23/14 and C09K 23/20 should be considered in order to perform a complete search.

23/22 . Amides or hydrazides

WARNING

Groups C09K 23/22 and C09K 23/24 are incomplete pending reclassification of documents from group C09K 23/00.

Groups C09K 23/00, C09K 23/22 and C09K 23/24 should be considered in order to perform a complete search.

23/24 . Amides of higher fatty acids with aminoalkylated sulfonic acids

23/26 • Sulfonamides

WARNING

Group C09K 23/26 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K</u> 23/00 and <u>C09K</u> 23/26 should be considered in order to perform a complete search.

23/28 • Aminocarboxylic acids (proteins and protein hydrolysates <u>C09K 23/30</u>)

WARNING

Group C09K 23/28 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/28</u> should be considered in order to perform a complete search.

23/30 • Proteins; Protein hydrolysates

WARNING

Group C09K 23/30 is incomplete pending reclassification of documents from groups C09K 23/00 and C09K 23/16.

Groups <u>C09K 23/00</u>, <u>C09K 23/16</u> and <u>C09K 23/30</u> should be considered in order to perform a complete search.

23/32 . Heterocyclic compounds

WARNING

Group C09K 23/32 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/32</u> should be considered in order to perform a complete search.

23/34 • Higher-molecular-weight carboxylic acid esters (esters of higher fatty acids with hydroxyalkylated sulfonic acids or salts thereof C09K 23/06)

WARNING

Groups <u>C09K 23/34</u> and <u>C09K 23/36</u> are incomplete pending reclassification of documents from group <u>C09K 23/00</u>.

Groups <u>C09K 23/00</u>, <u>C09K 23/34</u> and <u>C09K 23/36</u> should be considered in order to perform a complete search.

23/36 . Esters of polycarboxylic acids

. Alcohols, e.g. oxidation products of paraffins

WARNING

23/38

Group <u>C09K 23/38</u> is incomplete pending reclassification of documents from group <u>C09K 23/00</u>.

Groups C09K 23/00 and C09K 23/38 should be considered in order to perform a complete search.

23/40 . Phenols

WARNING

Group C09K 23/40 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/40</u> should be considered in order to perform a complete search.

23/42 . Ethers, e.g. polyglycol ethers of alcohols or phenols

WARNING

Groups <u>C09K 23/42</u> - <u>C09K 23/48</u> are incomplete pending reclassification of documents from group <u>C09K 23/00</u>.

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

23/44 . Ether carboxylic acids

23/46 . Ethers of aminoalcohols

23/48 . . Cellulose ethers

23/50 • Derivatives of lignin

WARNING

Group C09K 23/50 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/50</u> should be considered in order to perform a complete search.

23/52 . Natural or synthetic resins or their salts

WARNING

Group <u>C09K 23/52</u> is incomplete pending reclassification of documents from group <u>C09K 23/00</u>.

Groups <u>C09K</u> 23/00 and <u>C09K</u> 23/52 should be considered in order to perform a complete search.

23/54 • Silicon compounds

WARNING

Group C09K 23/54 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/54</u> should be considered in order to perform a complete search.

23/56 • Glucosides; Mucilage; Saponins

WARNING

Group C09K 23/56 is incomplete pending reclassification of documents from group C09K 23/00.

Groups <u>C09K 23/00</u> and <u>C09K 23/56</u> should be considered in order to perform a complete search.

2101/00 Agricultural use

2103/00 Civil engineering use

2105/00	Erosion prevention	2200/062	Polyethylene
2107/00	Impermeabilisation	2200/0622	Polyvinylalcohols, polyvinylacetates
2107/00	Impermeabilisation	2200/0625	Polyacrylic esters or derivatives thereof
2109/00	pH regulation	2200/0627	Nitrogen-containing polymers, e.g. polyacrylamide
2200/00	Chemical nature of materials in mouldable or	2200/063	Polyacrylamide Polyacrylonitriles
	extrudable form for sealing or packing joints or		Polystyrenes
	covers		Halogen-containing polymers, e.g. PVC
2200/02	Inorganic compounds		Fluoro-containing polymers, e.g. PTFE
2200/0204	Elements		Coumarone polymers
2200/0208	Carbon		Countaione polymers Copolymers containing at least three different
2200/0213	Metals	2200/0042	monomers
2200/0217	Salts	2200/0645	obtained otherwise than by reactions involving
2200/0221	Halogen-containing compounds	2200/0043	carbon-to-carbon unsaturated bonds
2200/0226	Nitrogen-containing compounds	2200/0647	Polyepoxides
2200/023	Sulfur-containing compounds	2200/065	Polyurethanes
2200/0234	Phosphorous-containing compounds	2200/0652	Polyisocyanates
2200/0239	Oxides, hydroxides, carbonates	2200/0655	Polyesters
2200/0243	Silica-rich compounds, e.g. silicates, cement,	2200/0657	Polyethers
	glass	2200/066	Polyester-polyethers
2200/0247	Silica	2200/0662	Polyether-polyol
2200/0252	Clays	2200/0665	Polyurea
2200/0256	Bentonite	2200/0667	Polyamides, polyimides
2200/026	Kaolin	2200/067	Condensation polymers of aldehydes or ketones
2200/0265	Mica		Phenol-aldehyde condensation polymers
2200/0269	Ceramics		Melamine-formaldehyde condensation
2200/0273	Boron-containing compounds	2200,00,0	polymers
2200/0278	Fibres	2200/0677	Urea-formaldehyde condensation polymers
2200/0282	Carbon fibres		Containing also other elements than carbon,
2200/0286	Asbestos		oxygen or nitrogen in the polymer main chain
2200/0291	Glass fibres	2200/0682	Containing sulfur
2200/0295	Ceramic fibres	2200/0685	Containing silicon
2200/04	Non-macromolecular organic compounds	2200/0687	Natural resins, e.g. rosin
2200/0405	Hydrocarbons	2200/069	Bituminous materials, e.g. tar, pitch
2200/0411	Halogen-containing compounds	2200/0692	Fibres
2200/0417	Phosphorus-containing compounds	2200/0695	Polyamide fibres
2200/0423	Boron-containing compounds	2200/0697	Cellulose fibres
2200/0429	Alcohols, phenols, ethers	2207/00	
2200/0435	Aldehydes, ketones	2205/00	Aspects relating to compounds used in
2200/0441	Carboxylic acids, salts, anhydrides or esters	2205/10	compression type refrigeration systems
	thereof	2205/10	. Components
2200/0447	. Fats, fatty oils, higher fatty acids or derivatives	2205/102	Alcohols
2200/0452	thereof	2205/104	Carboxylic acid esters Carbon dioxide
2200/0452	Carbohydrates or derivatives thereof	2205/106	
2200/0458	Nitrogen-containing compounds	2205/108	Aldehydes or ketones
2200/0464	Isocyanates	2205/11	Ethers
2200/047	Amides, imides, imines, N-oxides	2205/112	Halogenated ethers
2200/0476	Heterocyclic nitrogen compounds, e.g.	2205/114	Cyclic ethers
2200/0402	melamine	2205/116	Halogenated cyclic ethers
2200/0482	Peptides, proteins or derivatives thereof	2205/12	Hydrocarbons
2200/0488	Sulfur-containing compounds	2205/122	Halogenated hydrocarbons
2200/0494	Silicon-containing compounds	2205/124	Fluorinated cyclic hydrocarbons
2200/06	Macromolecular organic compounds, e.g.	2205/126	Unsaturated fluorinated hydrocarbons
2200/0602	prepolymers	2205/128	Perfluorinated hydrocarbons (C09K 2205/124,
2200/0602	Polysaccharides or derivatives thereof Lignin containing company de	2205/12	C09K 2205/126 take precedence)
2200/0605	Lignin-containing compounds Publication and being desired in the second s	2205/13	. Inert gases
2200/0607	Rubber or rubber derivatives	2205/132	containing nitrogen
2200/061	Butyl rubber	2205/134	containing sulfur
2200/0612	Butadiene-acrylonitrile rubber	2205/22	All components of a mixture being fluoro
2200/0615	obtained by reactions only involving carbon-to-	2205/24	compounds
2200/0617	carbon unsaturated bonds	2205/24	Only one single fluoro component present The mintum being a greature is.
2200/0617	Polyalkenes	2205/32	The mixture being azeotropic

2205/34	The mixture being non-azeotropic	2211/1074	containing more than three nitrogen atoms as
2205/40	Replacement mixtures		heteroatoms
2205/41	Type R11		with oxygen
2205/42	Type R12	2211/1081	with sulfur
2205/43	Type R22	2211/1085	with other heteroatoms
2205/44	Type R13B1		containing oxygen as the only heteroatom
2205/45	Type R500		containing sulfur as the only heteroatom
2205/46	Type R501		containing other heteroatoms
2205/47	Type R502	2211/14	Macromolecular compounds
2205/48	Type R503	2211/1408	Carbocyclic compounds
2208/00	Aspects relating to compositions of drilling or well	2211/1416	Condensed systems
2200/00	treatment fluids	2211/1425	Non-condensed systems
2208/02	Spotting, i.e. using additives for releasing a stuck	2211/1433	bridged by heteroatoms, e.g. N, P, Si or B
2200/02	drill	2211/1441	Heterocyclic
2208/04	Hulls, shells or bark containing well drilling or	2211/145	containing oxygen as the only heteroatom
	treatment fluids	2211/1458	containing sulfur as the only heteroatom
2208/06	Structured surfactants, i.e. well drilling or treating	2211/1466	containing nitrogen as the only heteroatom
	fluids with a lamellar or spherulitic phase		• containing nitrogen and oxygen as heteroatoms
2208/08	Fiber-containing well treatment fluids	2211/1483	containing nitrogen and sulfur as heteroatoms
2208/10	Nanoparticle-containing well treatment fluids	2211/1491	• • containing other combinations of heteroatoms
2208/12	Swell inhibition, i.e. using additives to drilling or	2211/18	Metal complexes
	well treatment fluids for inhibiting clay or shale	2211/181	• of the alkali metals and alkaline earth metals
	swelling or disintegrating	2211/182	• • of the rare earth metals, i.e. Sc, Y or lanthanide
2208/14	• Double emulsions, i.e. oil-in-water-in-oil emulsions	2211/183	• • of the refractory metals, i.e. Ti, V, Cr, Zr, Nb,
	or water-in-oil-in-water emulsions		Mo, Hf, Ta or W
2208/18	Bridging agents, i.e. particles for temporarily filling	2211/185	• • of the platinum group, i.e. Os, Ir, Pt, Ru, Rh or Pd
	the pores of a formation; Graded salts	2211/186	• of the light metals other than alkali metals and
2208/20	Hydrogen sulfide elimination		alkaline earth metals, i.e. Be, Al or Mg
2208/22	Hydrates inhibition by using well treatment fluids	2211/187	• • of the iron group metals, i.e. Fe, Co or Ni
	containing inhibitors of hydrate formers	2211/188	of other metals not provided for in one of the
2200/24			
2208/24	Bacteria or enzyme containing gel breakers		previous groups
2208/24 2208/26	. Gel breakers other than bacteria or enzymes	2219/00	• •
	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives	2219/00	Aspects relating to the form of the liquid crystal
2208/26	. Gel breakers other than bacteria or enzymes	2219/00	• •
2208/26 2208/28 2208/30 2208/32	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives	2219/00 2219/01	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used
2208/26 2208/28 2208/30	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES]		Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which
2208/26 2208/28 2208/30 2208/32 2208/34	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives 		Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation
2208/26 2208/28 2208/30 2208/32	Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or	2219/01	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00	Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds	2219/01	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00	Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds	2219/01 2219/03	 Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/10 2211/1003	Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds	2219/01 2219/03 2219/11	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/10 2211/1003 2211/1007	Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems	2219/01 2219/03 2219/11 2219/13	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/10 2211/1003 2211/1007 2211/1011	Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems	2219/01 2219/03 2219/11 2219/13	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/100 2211/1007 2211/1011 2211/1011	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B 	2219/01 2219/03 2219/11 2219/13 2219/15	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/10 2211/1007 2211/1011 2211/1014 2211/1018	Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems Heterocyclic compounds Heterocyclic compounds	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/10 2211/1007 2211/1011 2211/1014 2211/1018 2211/1022	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems Heterocyclic compounds Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B bridged by heteroatoms, e.g. N, P, Si or B bridged by heteroatoms, e.g. N, P, Si or B 	2219/01 2219/03 2219/11 2219/13 2219/15	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/100 2211/1007 2211/1011 2211/1018 2211/1018 2211/1022 2211/1025	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/100 2211/1007 2211/1011 2211/1018 2211/1018 2211/1022 2211/1025	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/10 2211/1007 2211/1011 2211/1014 2211/1018 2211/1022 2211/1025 2211/1029	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/1003 2211/1007 2211/1011 2211/1014 2211/1018 2211/1022 2211/1029 2211/1029	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/1003 2211/1007 2211/1011 2211/1014 2211/1018 2211/1022 2211/1025 2211/1029 2211/1033 2211/1037	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with sulfur 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/02	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/1003 2211/1007 2211/1011 2211/1014 2211/1018 2211/1022 2211/1025 2211/1029 2211/1033 2211/1037 2211/104	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with other heteroatoms 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/021 2323/023	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/1003 2211/1007 2211/1011 2211/1014 2211/1018 2211/1022 2211/1025 2211/1029 2211/1033 2211/1037 2211/104	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with other heteroatoms containing two nitrogen atoms as 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/02	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/10 2211/1007 2211/1011 2211/1014 2211/1018 2211/1022 2211/1025 2211/1029 2211/1037 2211/104 2211/104	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with other heteroatoms as heteroatoms containing two nitrogen atoms as heteroatoms 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/021 2323/023 2323/025 2323/027	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide Polyimide
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/100 2211/1007 2211/1011 2211/1014 2211/1018 2211/1022 2211/1025 2211/1029 2211/1033 2211/1037 2211/104 2211/1044	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with other heteroatoms containing two nitrogen atoms as heteroatoms with oxygen with oxygen with oxygen 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/021 2323/025 2323/027 2323/027	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide Polyimide Polyimidfluoride
2208/26 2208/28 2208/30 2208/32 2208/34 2211/100 2211/1003 2211/1007 2211/1011 2211/1014 2211/1018 2211/1025 2211/1025 2211/1029 2211/1033 2211/1037 2211/1044 2211/1048 2211/1048	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B heterocyclic compounds characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with other heteroatoms as heteroatoms with oxygen 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/021 2323/023 2323/027 2323/027 2323/0271 2323/0273	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide Polyimide Polyimidfluoride Polyimidmetalo
2208/26 2208/28 2208/30 2208/32 2208/34 2211/100 2211/100 2211/1007 2211/1011 2211/1014 2211/1022 2211/1025 2211/1029 2211/1033 2211/1037 2211/104 2211/1044 2211/1048 2211/1051 2211/1055	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with other heteroatoms containing two nitrogen atoms as heteroatoms with oxygen with other heteroatoms 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/021 2323/025 2323/027 2323/027	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide Polyimide Polyimidfluoride Polyimidmetalo Viewing layer characterised by chemical
2208/26 2208/28 2208/30 2208/32 2208/34 2211/100 2211/100 2211/1007 2211/1011 2211/1014 2211/1022 2211/1025 2211/1029 2211/1033 2211/1037 2211/104 2211/1044 2211/1048 2211/1051 2211/1055	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B heterocyclic compounds characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with other heteroatoms as heteroatoms with oxygen 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/021 2323/023 2323/027 2323/027 2323/0271 2323/0273	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide Polyimide Polyimidfluoride Polyimidmetalo Viewing layer characterised by chemical composition
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/100 2211/1007 2211/1011 2211/1014 2211/1025 2211/1025 2211/1029 2211/1033 2211/1037 2211/104 2211/1044 2211/1048 2211/1055 2211/1055 2211/1059	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with oxygen with other heteroatoms containing two nitrogen atoms as heteroatoms with oxygen with oxygen with oxygen containing two nitrogen atoms as heteroatoms containing three nitrogen atoms as heteroatoms 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/021 2323/023 2323/025 2323/027 2323/0271 2323/0273 2323/03	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide Polyimide Polyimidfluoride Polyimidmetalo Viewing layer characterised by chemical composition Polarizer or dye
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/100 2211/1007 2211/1011 2211/1014 2211/1018 2211/1025 2211/1025 2211/1037 2211/1037 2211/104 2211/1044 2211/1048 2211/1051 2211/1059 2211/1059	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with other heteroatoms containing two nitrogen atoms as heteroatoms with oxygen with oxygen with other heteroatoms containing three nitrogen atoms as heteroatoms containing three nitrogen atoms as heteroatoms with other heteroatoms 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/02 2323/021 2323/023 2323/025 2323/027 2323/027 2323/027 2323/03 2323/03	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide Polyimide Polyimidfluoride Polyimidfluoride Polyimidmetalo Viewing layer characterised by chemical composition Polarizer or dye Silicon compound, e.g. glass or organosilicon
2208/26 2208/28 2208/30 2208/32 2208/34 2211/00 2211/100 2211/1007 2211/1011 2211/1014 2211/1025 2211/1025 2211/1029 2211/1033 2211/1037 2211/104 2211/1044 2211/1048 2211/1055 2211/1055 2211/1059	 Gel breakers other than bacteria or enzymes Friction or drag reducing additives Viscoelastic surfactants [VES] Anticorrosion additives Lubricant additives Chemical nature of organic luminescent or tenebrescent compounds Non-macromolecular compounds Carbocyclic compounds Non-condensed systems Condensed systems bridged by heteroatoms, e.g. N, P, Si or B Heterocyclic compounds bridged by heteroatoms, e.g. N, P, Si or B characterised by ligands containing one nitrogen atom as the heteroatom with oxygen with oxygen with other heteroatoms containing two nitrogen atoms as heteroatoms with oxygen with oxygen with oxygen containing two nitrogen atoms as heteroatoms containing three nitrogen atoms as heteroatoms 	2219/01 2219/03 2219/11 2219/13 2219/15 2219/17 2323/00 2323/021 2323/023 2323/025 2323/027 2323/027 2323/027 2323/027 2323/027 2323/031 2323/033	Aspects relating to the form of the liquid crystal [LC] material, or by the technical area in which LC material are used in the form of fibres, e.g. fibres after polymerisation of LC precursor in the form of films, e.g. films after polymerisation of LC precursor used in the High Frequency technical field used in the technical field of thermotropic switches used as a medium, in which chemical reactions take place used as a medium, in which detection of chemical compounds takes place Functional layers of liquid crystal optical display excluding electroactive liquid crystal layer characterised by chemical composition Alignment layer characterised by chemical composition Inorganic, e.g. glass or silicon oxide Organic silicon compound, e.g. organosilicon Polyamide Polyimide Polyimidfluoride Polyimidmetalo Viewing layer characterised by chemical composition Polarizer or dye

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2323/04	• Charge transferring layer characterised by chemical composition, i.e. conductive
2323/05	Bonding or intermediate layer characterised by chemical composition, e.g. sealant or spacer
2323/051	Inorganic, e.g. glass or silicon oxide
2323/053	Organic silicon compound, e.g. organosilicon
2323/055	Epoxy
2323/057	• Ester polymer, e.g. polycarbonate, polyacrylate or polyester
2323/059	Unsaturated aliphatic polymer, e.g. vinyl
2323/06	Substrate layer characterised by chemical
	composition
2323/061	Inorganic, e.g. ceramic, metallic or glass