SECTION C — CHEMISTRY; METALLURGY

- **C09** DYES; PAINTS; POLISHES; NATURAL RESINS; ADHESIVES; COMPOSITIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR
- ORGANIC DYES OR CLOSELY-RELATED COMPOUNDS FOR PRODUCING DYES; MORDANTS; LAKES C09B (fermentation or enzyme-using processes to synthesise a desired chemical compound C12P)

Note(s)

In this subclass, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

Subclass index

ANTHRACENE DYESAZO DYES	1/00, 3/00, 5/00, 6/00, 9/02
Prepared by diazotising and coupling	
Monoazo dyes	29/00
Disazo and polyazo dyes	31/00, 33/00, 35/00
by coupling the diazoted amine with itself	37/00
Other azo dyes	39/00
Special methods of performing the coupling reaction	
Preparation of azo dyes from other azo compounds	43/00
Preparation other than by diazotising and coupling	27/00
Compounds containing onium groups	44/00
Complex metal compounds	45/00
Compounds containing other chromophoric systems	56/00
Other azo dyes	
INDIGOID; DIARYL AND TRIARYL METHANE; OXYKETONE DYES	7/00, 9/04, 11/00, 13/00
ACRIDINE, AZINE, OXAZINE, THIAZINE DYES	
QUINOLINE AND POLYMETHINE DYES	
HYDRAZONE, TRIAZENE DYES	
PORPHYRINS, PORPHYRAZINS; SULFUR DYES	47/00, 49/00
QUINACRIDONES	
FORMAZANE DYES; NITRO AND NITROSO DYES; QUINONE IMIDES; AZOMETHINE DYES	
OTHER SYNTHETIC DYES	57/00, 59/00
DYES OF NATURAL ORIGIN	
REACTIVE DYES	
LAKES; MORDANTS; DYESTUFF PREPARATIONS	63/00, 65/00, 67/00
OTHER DYES	

1/00 Dyes with an anthracene nucleus not condensed with any other ring

- 1/02 · Hydroxy anthraquinones; Ethers or esters thereof
- 1/04 Preparation by synthesis of the nucleus
- 1/06 Preparation from starting materials already containing the anthracene nucleus
- 1/08 • Dyes containing only OH groups
- 1/10 • • Dyes containing halogen
- 1/12 • • • Dyes containing sulfonic acid groups
- • Dyes containing ether groups 1/14
- 1/16 Amino anthraquinones

Anthracene dyes

• • Preparation by synthesis of the nucleus

1/20 Preparation from starting materials already containing the anthracene nucleus

- · Dyes with unsubstituted amino groups 1/22
- 1/24 • • • sulfonated
- • Dyes with amino groups substituted by 1/26 hydrocarbon radicals
- 1/28 substituted by alkyl, aralkyl, or cyclo-alkyl groups
- 1/30 sulfonated
- · · substituted by aryl groups (anthrimides 1/32 C09B 1/48)
- 1/34 • • • • sulfonated
- • Dyes with acylated amino groups 1/36
- 1/38 • • • Urea or thiourea derivatives

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1/40	 • • the acyl groups being residues of an aliphatic 	3/50	 Dibenzopyrenequinones
	or araliphatic carboxylic acid	3/52	 Preparation by synthesis of the nucleus
1/42	 • • • the acyl groups being residues of an 	3/54	 Preparation from starting materials already
	aromatic carboxylic acid		containing the dibenzopyrenequinone nucleus
1/43	• • • • Dicarboxylic acids [3]	3/56	 • • Amino derivatives
1/44	 • • • the acyl groups being residues of a 	3/58	 Benzanthraquinones
	heterocyclic carboxylic acid	3/60	 Anthanthrones
1/46	• • • the acyl groups being residues of cyanuric	3/62	 Preparation by synthesis of the nucleus
	acid or an analogous heterocyclic compound	3/64	 Preparation from starting materials already
1/467	• • • • attached to two or more anthraquinone		containing the anthanthrone nucleus
	rings [3]	3/66	• • by halogenation
1/473	• • • • the acyl groups being residues of a sulfonic	3/68	• • Amino derivatives
	acid [3]	3/70	 Benzo-, naphtho-, or anthra-dianthrones
1/48	• • Anthrimides	3/72	 Preparation by synthesis of the nucleus
1/50	Amino-hydroxy anthraquinones; Ethers or esters	3/74	Preparation from starting materials already
1 /500	thereof		containing the benzo-, naphtho-, or anthra-
1/503	unsubstituted amino-hydroxy anthraquinone [2]		dianthrone nucleus
1/51	N-substituted amino-hydroxy anthraquinone [2]	3/76	• • by halogenation
1/514	N-aryl derivatives (N-aralkyl derivatives	3/78	 Other dyes in which the anthracene nucleus is
4 /545	C09B 1/515) [2]		condensed with one or more carbocyclic rings
1/515	N-alkyl, N-aralkyl, or N-cycloalkyl derivatives [2]	3/80	 Preparation by synthesis of the nucleus
1/516		3/82	 Preparation from starting materials already
1/516	• • N-acylated derivatives [2]		containing the condensed anthracene nucleus
1/52	• sulfonated	F (00	5 54 4 1 1 1 54
1/54	• etherified	5/00	Dyes with an anthracene nucleus condensed with one
1/56	Mercapto-anthraquinones		or more heterocyclic rings with or without carbocyclic rings
1/58	• with mercapto groups substituted by aliphatic,	5/02	 the heterocyclic ring being condensed in peri position
1 / 60	cycloaliphatic, araliphatic or aryl radicals [3]	5/04	 Pyrazolanthrones
1/60	 • substituted by aliphatic, cycloaliphatic or araliphatic radicals [3] 	5/04	• • Benzanthronyl-pyrazolanthrone condensation
1/62		3/00	products
1/02	with mercapto groups substituted by a heterocyclic ring [3]	5/08	Dipyrazolanthrones
	ing [3]	5/00	
		5/10	Icothiazolanthrones: Icovazolanthrones:
3/00	Dyes with anthracene nucleus condensed with one or	5/10	Isothiazolanthrones; Isoxazolanthrones; Isoselenazolanthrones
3/00	Dyes with anthracene nucleus condensed with one or more carbocyclic rings		Isoselenazolanthrones
3/00 3/02		5/12	Isoselenazolanthrones • • Thiophenanthrones
	more carbocyclic rings	5/12 5/14	IsoselenazolanthronesThiophenanthronesBenz-azabenzanthrones (anthrapyridones)
3/02	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already 	5/12 5/14 5/16	 Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones
3/02 3/04	more carbocyclic ringsBenzanthronesPreparation by synthesis of the nucleus	5/12 5/14	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives
3/02 3/04	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already 	5/12 5/14 5/16 5/18	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof
3/02 3/04 3/06	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus 	5/12 5/14 5/16 5/18	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones
3/02 3/04 3/06 3/08	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation 	5/12 5/14 5/16 5/18	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already
3/02 3/04 3/06 3/08 3/10	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives 	5/12 5/14 5/16 5/18 5/20 5/22	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus
3/02 3/04 3/06 3/08 3/10 3/12	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls 	5/12 5/14 5/16 5/18	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an
3/02 3/04 3/06 3/08 3/10 3/12 3/14	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives 	5/12 5/14 5/16 5/18 5/20 5/22 5/24	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position
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3/02 3/04 3/06 3/08 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24 3/26 3/28	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives Preparation by synthesis of the nucleus Preparation from starting materials already containing the perylene nucleus by halogenation Dibenzanthrones; Isodibenzanthrones Preparation by synthesis of the nucleus from dibenzanthronyls from perylene derivatives Preparation from starting materials already 	5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30 5/32 5/34 5/36	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position Carbazoles of the anthracene series Anthrimide carbazoles 1.2 azoles of the anthracene series Anthraquinone acridones or thioxanthones Anthraquinone acridones Anthraquinone acridones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino
3/02 3/04 3/06 3/08 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24 3/26 3/28	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives Preparation by synthesis of the nucleus Preparation from starting materials already containing the perylene nucleus by halogenation Dibenzanthrones; Isodibenzanthrones Preparation by synthesis of the nucleus from dibenzanthronyls from perylene derivatives Preparation from starting materials already containing the dibenzanthrone or 	5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30 5/32 5/34 5/36 5/38	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position Carbazoles of the anthracene series Anthrimide carbazoles 1.2 azoles of the anthracene series Anthraquinone acridones or thioxanthones Anthraquinone acridones or thioxanthones Amino acridones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino anthraquinones
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3/02 3/04 3/06 3/08 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24 3/26 3/28 3/30 3/32 3/34 3/36	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives Preparation by synthesis of the nucleus Preparation from starting materials already containing the perylene nucleus by halogenation Dibenzanthrones; Isodibenzanthrones Preparation by synthesis of the nucleus from dibenzanthronyls from dibenzanthronyls from perylene derivatives from perylene derivatives Preparation from starting materials already containing the dibenzanthrone or isodibenzanthrone nucleus by halogenation by oxidation by etherification of hydroxy compounds 	5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30 5/32 5/34 5/36 5/38 5/40 5/42 5/44 5/46 5/48	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position Carbazoles of the anthracene series Anthrimide carbazoles 1.2 azoles of the anthracene series Anthraquinone acridones or thioxanthones Anthraquinone acridones or thioxanthones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino anthraquinones Pyridino anthraquinones Azines of the anthracene series Para-diazines Bis-anthraquinonediazines (indanthrone)
3/02 3/04 3/06 3/08 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24 3/26 3/28 3/30 3/32 3/34 3/36	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives Preparation by synthesis of the nucleus Preparation from starting materials already containing the perylene nucleus by halogenation Dibenzanthrones; Isodibenzanthrones Preparation by synthesis of the nucleus from dibenzanthronyls from dibenzanthronyls from perylene derivatives Preparation from starting materials already containing the dibenzanthrone or isodibenzanthrone nucleus by halogenation by oxidation by etherification of hydroxy compounds by introduction of hydrocarbon or acyl residues 	5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30 5/32 5/34 5/36 5/38 5/40 5/42 5/44	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position Carbazoles of the anthracene series Anthrimide carbazoles Anthrimide carbazoles Anthraquinone acridones or thioxanthones Anthraquinone acridones or thioxanthones Amino acridones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino anthraquinones Pyridino anthraquinones Para-diazines Para-diazines Preparation by alkaline melting of 2-
3/02 3/04 3/06 3/08 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24 3/26 3/28 3/30 3/32 3/34 3/36 3/38	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives Preparation by synthesis of the nucleus Preparation from starting materials already containing the perylene nucleus by halogenation Dibenzanthrones; Isodibenzanthrones Preparation by synthesis of the nucleus from dibenzanthronyls from dibenzanthronyls from perylene derivatives Preparation from starting materials already containing the dibenzanthrone or isodibenzanthrone nucleus by halogenation by oxidation by etherification of hydroxy compounds by introduction of hydrocarbon or acyl residues into amino groups 	5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30 5/32 5/34 5/36 5/38 5/40 5/42 5/44 5/46 5/48 5/50	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position Carbazoles of the anthracene series Anthrimide carbazoles Anthrimide carbazoles Anthraquinone acridones or thioxanthones Anthraquinone acridones or thioxanthones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino anthraquinones Pyridino anthraquinones Para-diazines Bis-anthraquinonediazines (indanthrone) Preparation by alkaline melting of 2-amino anthraquinones
3/02 3/04 3/06 3/08 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24 3/26 3/28 3/30 3/32 3/34 3/36 3/38	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives Preparation by synthesis of the nucleus Preparation from starting materials already containing the perylene nucleus by halogenation Dibenzanthrones; Isodibenzanthrones Preparation by synthesis of the nucleus from dibenzanthronyls from dibenzanthronyls from perylene derivatives Preparation from starting materials already containing the dibenzanthrone or isodibenzanthrone nucleus by halogenation by etherification of hydroxy compounds by etherification of hydrocarbon or acyl residues into amino groups Pyranthrones 	5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30 5/32 5/34 5/36 5/38 5/40 5/42 5/44 5/46 5/48	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position Carbazoles of the anthracene series Anthrimide carbazoles Anthrimide carbazoles Anthraquinone acridones or thioxanthones Anthraquinone acridones or thioxanthones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino anthraquinones Pyridino anthraquinones Para-diazines Para-diazines Preparation by alkaline melting of 2-amino anthraquinones Preparation by condensation of 1.2-
3/02 3/04 3/06 3/08 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24 3/26 3/28 3/30 3/32 3/34 3/36 3/38	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives Preparation by synthesis of the nucleus Preparation from starting materials already containing the perylene nucleus by halogenation Dibenzanthrones; Isodibenzanthrones Preparation by synthesis of the nucleus from dibenzanthronyls from derivatives from perylene derivatives from perylene derivatives preparation from starting materials already containing the dibenzanthrone or isodibenzanthrone nucleus by halogenation by oxidation by etherification of hydroxy compounds by introduction of hydroxy compounds by introduction of hydrocarbon or acyl residues into amino groups Pyranthrones Preparation from starting materials already containing the pyranthrone nucleus Preparation from starting materials already containing the pyranthrone nucleus 	5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30 5/32 5/34 5/36 5/38 5/40 5/42 5/44 5/46 5/48 5/50	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position Carbazoles of the anthracene series Anthrimide carbazoles Anthrimide carbazoles Anthraquinone acridones or thioxanthones Anthraquinone acridones or thioxanthones Amino acridones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino anthraquinones Pyridino anthraquinones Para-diazines Para-diazines Preparation by alkaline melting of 2-amino anthraquinones Preparation by condensation of 1.2-halogeno-amino anthraquinones
3/02 3/04 3/06 3/08 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24 3/26 3/28 3/30 3/32 3/34 3/36 3/38	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already containing the benzanthrone nucleus by halogenation Amino derivatives Dibenzanthronyls Perylene derivatives Preparation by synthesis of the nucleus Preparation from starting materials already containing the perylene nucleus by halogenation Dibenzanthrones; Isodibenzanthrones Preparation by synthesis of the nucleus from dibenzanthronyls from derivatives from perylene derivatives from perylene derivatives Preparation from starting materials already containing the dibenzanthrone or isodibenzanthrone nucleus by halogenation by etherification of hydroxy compounds by etherification of hydroxarbon or acyl residues into amino groups Pyranthrones Preparation by synthesis of the nucleus Preparation from starting materials already 	5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/30 5/32 5/34 5/36 5/38 5/40 5/42 5/44 5/46 5/48 5/50	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof Flavanthrones Preparation from starting materials already containing the flavanthrone nucleus the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 or 2-3 position Carbazoles of the anthracene series Anthrimide carbazoles Anthraquinone acridones Anthraquinone acridones or thioxanthones Anthraquinone acridones or thioxanthones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino anthraquinones Pyridino anthraquinones Pyridino anthraquinones Para-diazines Para-diazines Preparation by alkaline melting of 2-amino anthraquinones Preparation by condensation of 1.2-halogeno-amino anthraquinones

5/56	• • • • • Preparation from starting materials already containing the indanthrene	Quinoline	<u>e or polymethine dyes</u>
	nucleus	23/00	Methine or polymethine dyes, e.g. cyanine dyes
5/58	• • • • • by halogenation	23/01	 characterised by the methine chain [3]
5/60	• • • Thiazines; Oxazines	23/02	• • containing an odd number of >CH groups [3]
5/62	• Cyclic imides or amidines of peri-dicarboxylic acids of the anthracene, benzanthrene, or perylene series	23/04	• • • one CH group, e.g. cyanines, isocyanines, pseudocyanines [3]
6/00	Anthracene dyes not provided for above [2]	23/06 23/08	 three CH groups, e.g. carbocyanines [3] more than three CH groups, e.g.
5 /00	7.15.11.1		polycarbocyanines [3]
7/00	Indigoid dyes	23/10	• containing an even number of >CH groups [3]
7/02	Bis-indole indigos	23/12	 the polymethine chain being branched
7/04	Halogenation thereof	23/14	Styryl dyes
7/06	Indone-thionaphthene indigos	23/16	 the polymethine chain containing hetero atoms
7/08	Other indole-indigos Piculia control de control d		
7/10 7/12	Bis-thionaphthene indigosOther thionaphthene indigos	25/00 ————	Quinophthalones
9/00	Esters or ester-salts of leuco compounds of vat	22.422	
0.400	dyestuffs	26/00	Hydrazone dyes; Triazene dyes [3]
9/02	of anthracene dyes	26/02	Hydrazone dyes (hydrazone-azo dyes See 50(48) 191
9/04	 of indigoid dyes 	22/24	C09B 56/18) [3]
11/00	Diaryl- or triarylmethane dyes	26/04	• • cationic [3]
11/02	derived from diarylmethanes	26/06	• Triazene dyes (triazene-azo dyes C09B 56/20) [3]
11/04	derived from triarylmethanes		
11/04	Hydroxy derivatives of triarylmethanes in which	Azo dyes	
11700	at least one —OH group is bound to an aryl nucleus		Note(s)
11/08	• • • Phthaleins		In groups C09B 27/00-C09B 46/00, arrows in the
11/10	Amino derivatives of triarylmethanes		formulae of the various types of azo dyes indicate
11/12	• • without any —OH group bound to an aryl nucleus		which part of an azo dye, prepared by diazotising and coupling, is derived from the diazo component and
11/14	 • • • Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines 		which part is derived from the coupling component. Th arrow is pointing to the part derived from the coupling component.
11/16	• • • Preparation from diarylketones or diarylcarbinols	27/00	Azo dyes in which the azo group is formed in any way other than by diazotising and coupling
11/18	Preparation by oxidation	27/06	• Tartrazines [3]
11/20	• • • Preparation from other triarylmethane		
	derivatives	29/00	Monoazo dyes prepared by diazotising and coupling
11/22	 containing —OH groups bound to an aryl 	29/01	 characterised by the diazo component [3]
	nucleus	29/02	• • from diazotised o-amino-hydroxy compounds [3]
11/24 11/26	• Phthaleins containing amino groups• Triarylmethane dyes in which at least one of the	29/03	 from diazotised o-amino carboxylic acids or o- amino-sulfonic acids [3]
11, 2 0	aromatic nuclei is heterocyclic	29/033	 from diazotised amines containing a heterocyclic
11/28	• Pyronines		ring [3] • • the heterocyclic ring containing only nitrogen
13/00	Oxyketone dyes	29/036	as hetero atoms [3]
13/02	of the naphthalene series, e.g. naphthazarin	29/039	• • the heterocyclic ring containing nitrogen and
13/04	of the pyrene series	25/055	sulfur as hetero atoms [3]
13/06	 of the acetophenone series 	29/042	• • • the hetero ring being a thiazole ring [3]
			• • • • Benzothiazoles [3]
			• • • the hetero ring being a thiadiazole ring [3]
	, azine, oxazine, or thiazine dyes	29/06	from coupling components containing amino as the only directing group
15/00	Acridine dyes	29/08	Amino benzenes
17/00	Azine dyes	29/085	• • coupled with diazotised anilines [3]
17/00	• of the benzene series	29/003	• • coupled with diazotised amines containing
17/02	 of the benzene series of the naphthalene series 	23,03	heterocyclic rings [3]
17/04	Fluorindine or its derivatives	29/095	Amino naphthalenes [3]
1//00	radinanc of its activatives	29/10	 from coupling components containing hydroxy as the
19/00	Oxazine dyes		only directing group
19/02	Bisoxazines prepared from amino quinones	29/12	 of the benzene series

21/00

Thiazine dyes

29/14 • • Hydroxy carboxylic acids 29/15 • • of the naphthalene series **[3]**

29/16	• • Naphthol-sulfonic acids [3]	31/157	• • • • Quinolines or hydrogenated
29/18	 ortho-Hydroxy carbonamides 		quinolines [3]
29/20	 • of the naphthalene series 	31/16	Trisazo dyes
29/22	 • of heterocyclic compounds 	31/18	from a coupling component "D" containing a
29/24	from coupling components containing both hydroxy	31/20	directive amino groupfrom a coupling component "D" containing a
29/26	and amino directing groupsAmino phenols	31/20	directive hydroxy group
29/28	Amino phenois Amino naphthols	31/22	from a coupling component "D" containing
29/30	• • Amino naphtholsulfonic acid		directive hydroxy and amino groups
29/32	from coupling components containing a reactive	31/24	 from a coupling component "D" containing
	methylene group	24 /20	reactive methylene groups
29/33	 • Aceto- or benzoyl-acetylarylides [3] 	31/26 31/28	from other coupling components "D"Heterocyclic compounds
29/34	from other coupling components	31/20	Other polyazo dyes
29/36	• • from heterocyclic compounds	51/50	Office polyazo dyes
29/40	• • containing a five-membered ring with one nitrogen atom as the only ring hetero atom [3]	33/00	Disazo or polyazo dyes of the types $A \rightarrow K \leftarrow B, A \rightarrow B$
29/42	• • containing a six-membered ring with one		$B \rightarrow K \leftarrow C$, or the like, prepared by diazotising and coupling
	nitrogen atom as the only ring hetero atom [3]	33/02	Disazo dyes
29/44	• • • • Quinolines or hydrogenated quinolines [3]	33/04	 in which the coupling component is a dihydroxy
29/46	• • 1,2-Diazoles or hydrogenated 1,2-diazoles [3]	00,01	or polyhydroxy compound
29/48	• • • • Amino-1,2-diazoles [3]	33/044	• • • the coupling component being a bis-phenol [3]
29/50	• • • 1,2-Diazolones [3]	33/048	• • • the coupling component being a bis-
29/52	• • • Diazines [3]	22/052	naphthol [3]
31/00	Disazo or polyazo dyes of the type $A \rightarrow B \rightarrow C$, $A \rightarrow$	33/052	• • the coupling component being a bis-(naphtholamine) [3]
	$B \rightarrow C \rightarrow D$, or the like, prepared by diazotising and	33/056	• • the coupling component being a bis-(naphthol-
24 /02	coupling	00,000	urea) [3]
31/02 31/04	Disazo dyes• from a coupling component "C" containing a	33/06	• • in which the coupling component is a diamine or
31/04	directive amino group	DD /00	polyamine
31/043	Amino benzenes [3]	33/08	 in which the coupling component is a hydroxy- amino compound
31/047	• • • containing acid groups, e.g. —COOH, —	33/10	• in which the coupling component is an amino
	SO_3H , $-PO_3H_2$, $-OSO_3H$, $-OPO_2H_2$;	557 10	naphthol
21/052	Salts thereof [3]	33/12	• • in which the coupling component is a heterocyclic
	 • Amino naphthalenes [3] • • containing acid groups, e.g. —COOH, —	22/12	compound
31/03/	SO ₃ H, —PO ₃ H ₂ , —OSO ₃ H, —OPO ₂ H ₂ ;	33/13	 the coupling component being a bis- pyrazolone [3]
	Salts thereof [3]	33/147	• in which the coupling component is a bis-(o-
31/06	from a coupling component "C" containing a	5571.7	hydroxy carboxylic acid amide) [3]
21/062	directive hydroxy group • • • Phenols [3]	33/153	• • in which the coupling component is a bis-(aceto-
31/062	• • • containing acid groups, e.g. —COOH, —		acetyl amide) or a bis-(benzoyl-acetylamide) [3]
31/003	SO ₃ H, —PO ₃ H ₂ , —OSO ₃ H, —OPO ₂ H ₂ ;	33/16	• from other coupling components
	Salts thereof [3]	33/18 33/22	 Trisazo or higher polyazo dyes Trisazo dyes of the type A → B → K ← C [3]
	• • • Naphthols [3]	33/22	
31/072	• • • • containing acid groups, e.g. —COOH, —		$A \rightarrow K \stackrel{\triangleright}{\swarrow} B$
	SO ₃ H, —PO ₃ H ₂ , —OSO ₃ H, —OPO ₂ H ₂ ; Salts thereof [3]	33/24	• • Trisazo dyes of the type C [3]
31/075	ortho-Hydroxy carboxylic acid amides [3]	33/26	• • Tetrazo dyes of the type $A \rightarrow B \rightarrow C \rightarrow K \leftarrow$
31/078	• • • containing acid groups, e.g. —COOH, —	DD /00	D [3]
	SO_3H , $-PO_3H_2$, $-OSO_3H$, $-OPO_2H_2$;	33/28	• • Tetrazo dyes of the type A → B → K ← C ←
24 /00	Salts thereof [3]		B B
31/08	 from a coupling component "C" containing directive hydroxy and amino groups 		A→K, S
31/10	from a coupling component "C" containing	33/30	• • Tetrazo dyes of the type
-	reactive methylene groups		 Tetrazo dyes of the type A → B → K ← C ← D [3] Tetrazo dyes of the type A → K ← B C ← D [3] A → K ← B C ← D [3] Tetrazo dyes of the type
31/11	• • • Aceto- or benzoyl-acetylarylides [3]	22 /22	$A \rightarrow K$
31/12	from other coupling components "C"	33/32	• • 1etrazo ayes of the type C→D [3]
31/14	• • • Heterocyclic components	35/00	Disazo or polyazo dyes of the type $A \leftarrow D \rightarrow B$
31/143	• • • 1,2-Diazoles [3]		prepared by diazotising and coupling
31/147 31/15	• • • • Pyrazoles [3] • • • • Indoles [3]	35/02	Disazo dyes
31/15	· · · containing a six-membered ring with one	35/021	• characterised by two coupling components of the
22, 100	nitrogen atom as the only ring hetero	35/023	same type [3]in which the coupling component is a hydroxy
	atom [3]	55,025	or polyhydroxy compound [3]

35/025	•	• •	in which the coupling component is an amine or polyamine [3]	35/374	• • D contains two aryl nuclei linked by at least one of the groups —CON, —SO ₂ N, —SO ₂ —, or —
35/027	•	• •	in which the coupling component is a hydroxy- amino compound [3]	35/376	SO₂O—[3] • D is a heterocyclic compound [3]
35/029	•		Amino naphthol [3]		P. R.
35/03	•	• •	in which the coupling component is a heterocyclic compound [3]	35/378	$A \leftarrow T \stackrel{\Box}{\smile} E$ • Trisazo dyes of the type
35/031			 containing a six-membered ring with one 	33/3/0	• Trisazo dyes of the type – [5]
55/051			nitrogen atom as the only ring hetero		K ← A
35/033			atom [3] in which the coupling component is an	35/38	 Trisazo dyes ot the types
33/033			arylamide of an o-hydroxy carboxylic acid or of a beta-keto-carboxylic acid [3]	35/40	 the component K being a dihydroxy or polyhydroxy compound
35/035	•		in which the coupling component contains an	35/42	• • the component K being a diamine or polyamine
			activated methylene group [3]	35/44	• • the component K being a hydroxy amine
35/037	•		characterised by two coupling components of	35/46 35/48	the component K being an amino naphtholthe component K being heterocyclic
25 /020			different types [3]	35/50	Tetrazo dyes
35/039 35/04			characterised by the tetrazo component [3] the tetrazo component being a benzene	55/50	<u> </u>
35/04	•	•	derivative [3]		$ \begin{array}{ccc} & & D \\ & &$
35/06			the tetrazo component being a naphthalene	35/52	• • of the type $K_1 \leftarrow B$ [3]
557 00			derivative [3]	557 5 2	K ← A
35/08	•		the tetrazo component being a derivative of		
			biphenyl [3]	35/54	• • of the type $B \rightarrow K_1$ [3]
35/10	•	• •	• from two coupling components of the same		$A \rightarrow C$
35/12			type [3] • • • from amines [3]	DE (EG	• • of the type $B \rightarrow E$ [3]
35/12			• • from hydroxy compounds [3]	35/56	• • of the type $B \rightarrow E$ [3]
35/14			• • from hydroxy amines [3]		n × K
35/18			• • from heterocyclic compounds [3]		• • of the type $B \rightarrow K_1 \leftarrow A$ [3]
35/20			• from two coupling compounds of different	35/58	• • of the type $B \rightarrow K_1 \leftarrow A$ [3]
			types [3]		$K {\smile}_{\square} \to \mathbb{R}$
35/205	•		the tetrazo component being a derivative of a	25/60	• • of the type $D_1 \rightarrow C$ [3]
			diaryl- or triaryl-alkane or -alkene [3]	35/60	□
35/21			• of diarylmethane or triarylmethane [3]		K ✓ D → C
35/215			• of diarylethane or diarylethene [3]	35/62	• • of the type B ← A [3]
35/22	•	•	the tetrazo component being a derivative of a diaryl ether [3]	35/64	Higher polyazo dyes, e.g. of the types
35/227	•		the tetrazo component being a derivative of a		A _A←B
			diaryl sulfide or diaryl polysulfide [3]		,K←A Dı Dı
35/233	•	•	the tetrazo component being a derivative of a		D B Kı←B or Kı
05/04			diaryl ketone or benzil [3]		K ₁ D ₂ D ₂
35/24	•	• •	the tetrazo component being a derivative of a diaryl amine [3]		`C [*] K₂←C [*] K₂←C [3]
35/26	•		the tetrazo component being a derivative of a	37/00	Azo dyes prepared by coupling the diazotised amine
			diaryl urea [3]	37,00	with itself
35/28	•	•	the tetrazo component containing two aryl	20/00	
			nuclei linked by at least one of the groups — CON, —SO ₂ N, —SO ₂ —, or —SO ₂ O— [3]	39/00	Other azo dyes prepared by diazotising and coupling
35/30			• from two identical coupling components [3]	41/00	Special methods of performing the coupling reaction
35/32			• from two different coupling components [3]		
35/34			the tetrazo component being heterocyclic [3]	43/00	Preparation of azo dyes from other azo compounds
35/35			sazo dyes in which the tetrazo component is a	43/02	 by sulfonation
			mino-azo-aryl compound [3]	43/04	• by nitration
			$A \rightarrow B$	43/06	by oxidation
9 = 1= 1		_		43/08	• by reduction (deamination C09B 43/44)
35/36			sazo dyes of the type	43/10	with formation of a new azo or an azoxy bridge
35/362			D is benzene [3]	43/11	by introducing hydrocarbon radicals or substituted hydrocarbon radicals on primary or accordant aming
35/364			D is naphthalene [3]		hydrocarbon radicals on primary or secondary amino groups (formation of an amino group by reduction,
35/366			D is diphenyl [3]		e.g. of a nitro group, C09B 43/08) [3]
35/368	•		D is a diarylether, a diarylsulfide or a diarylpolysulfide [3]	43/12	by acylation of amino groups
35/37			D is a diarylamine [3]		with monocarboxylic acids, carbamic esters or
35/372			D is a diarylurea [3]		halides, monoisocyanates, or haloformic acid
			y	43/130	esters [3]
				43/128	• • • Aliphatic, cycloaliphatic or araliphatic acids [3]

43/132	• • having the carboxyl group directly attached to	45/12 • • • other metal compounds
	an aromatic carbocyclic ring [3]	45/14 • • Monoazo compounds
43/136	1 3 3 3 3	45/16 • • • containing chromium
43/14	 • with phosgene or thiophosgene [3] 	45/18 • • • containing copper
43/145		45/20 • • • containing cobalt
43/15	• • • with formation of cyclic imides of ortho-or	45/22 • • containing other metals
	peri-dicarboxylic acids [3]	45/24 • • Disazo or polyazo compounds
43/155	• • • with di- or poly-isocyanates [3]	45/26 • • • containing chromium
43/16	• • linking amino-azo compounds with other amino	45/28 • • • containing copper
	compounds by cyanuric acid or cyanuric acid residues [3]	45/30 • • • containing cobalt
43/18	by acylation of hydroxy groups	45/32 • • • containing other metals
43/10	 with monocarboxylic acids, carbamic acid esters 	 45/34 • Preparation from o-monohydroxy azo compounds
	or halides, monoisocyanates or haloformic acid esters [3]	having in the o1-position an atom or functional group other than hydroxy, alkoxy, carboxyl, amino, or keto groups
43/22	• • having the carboxyl group directly attached to	45/36 • by oxidation of hydrogen in o1-position
10.10.1	an aromatic carbocyclic ring [3]	45/38 • Preparation from compounds with —OH and —
43/24	• with formation of —O—SO ₂ —R or —O—SO ₃ H radicals [3]	COOH adjacent in the same ring or in peri position
43/26	 with polyfunctional acylating agents [3] 	45/40 • • Chromium compounds
43/28	 by etherification of hydroxy groups [3] 	45/42 • Copper compounds 45/44 • Cobalt compounds
43/30	 by esterification of —COOH or —SO₃H groups [3] 	•
43/32	 by reacting carboxyl or sulfonic groups, or 	45/46 • Other metal compounds
	derivatives thereof, with amines; by reacting keto groups with amines [3]	• Preparation from other complex metal compounds of azo dyes
43/34	 by reacting ortho- or peri-dicarboxylic dyes [3] 	46/00 Azo dyes not provided for in groups C09B 27/00-
43/36	 with amino anthracene or amino anthraquinone dyes [3] 	C09B 45/00 [2]
43/38	 by reacting two or more ortho-hydroxy naphthoic acid dyes with polyamines [3] 	
43/40	 by substituting hetero atoms by radicals containing other hetero atoms [3] 	47/00 Porphines; Azaporphines 47/04 • Phthalocyanines [3]
43/42	by substituting radicals containing hetero atoms for —CN radicals [3]	47/06 • Preparation from carboxylic acids or derivatives thereof [3]
43/44	 by substituting amine groups for hydroxyl groups or 	47/067 • • • from phthalodinitriles [3]
	hydroxy groups for amine groups; Desacylation of	47/073 • • Preparation from isoindolenines [3]
	amino-acyl groups; Deaminating [3]	47/08 • • Preparation from other phthalocyanine compounds [3]
44/00	Azo dyes containing onium groups [3]	47/10 • • Obtaining compounds having halogen atoms
44/02	 containing ammonium groups not directly attached to an azo group [3] 	directly bound to the phthalocyanine skeleton [3]
44/04	 from coupling components containing amino as the only directing group [3] 	47/12 • • • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms,
44/06	 from coupling components containing hydroxyl as the only directing group [3] 	bound to the phthalocyanine skeleton [3]
44/08	from coupling components containing heterocyclic rings [3]	47/14 • • • having alkyl radicals substituted by halogen atoms [3]
44/10	 containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] 	47/16 • • • having alkyl radicals substituted by nitrogen atoms [3]
44/12	 having one nitrogen atom as the only ring hetero atom [3] 	47/18 • • • Obtaining compounds having oxygen atoms directly bound to the phthalocyanine
44/14		skeleton [3]
44/14	40.701 1 1 1 1 140.11 1 501	47/20 • • • Obtaining compounds having sulfur atoms
44/18	• 1,3-Diazoles or hydrogenated 1,3-diazoles [3]• having three nitrogen atoms as the only ring hetero	directly bound to the phthalocyanine skeleton [3]
	atoms [3]	47/22 • • • Obtaining compounds having nitrogen atoms
44/20	Thiazoles or hydrogenated thiazoles [3]	directly bound to the phthalocyanine skeleton [3]
45/00	Complex metal compounds of azo dyes	47/24 • • • Obtaining compounds having —COOH or —
45/01	• characterised by the method of metallisation [3]	SO ₃ H radicals, or derivatives thereof, directly
45/02	 Preparation from dyes containing in o-position a hydroxy group and in o1-position hydroxy, alkoxy, 	bound to the phthalocyanine radical [3] 47/26 • • • Amide radicals [3]
	carboxyl, amino, or keto groups [2]	47/28 • • Phthalocyanine dyes containing —S—SO ₃ H
45/04	Azo compounds in general	radicals [3]
45/06	Chromium compounds	47/30 • • Metal-free phthalocyanines [3]
45/08	• • • Copper compounds	47/32 • • Cationic phthalocyanine dyes [3]
45/10	• • • Cobalt compounds	

45/10 • • Cobalt compounds

48/00	Quinacridones	• • the heterocyclic ring being alternatively
49/00	Sulfur dyes	specified [3] 62/024 • • Anthracene dyes [3]
49/02	• from nitro compounds of the benzene, naphthalene or	62/026 • • • Azo dyes [3]
	anthracene series	62/028 • • • • Monoazo dyes [3]
49/04	 from amino compounds of the benzene, naphthalene 	62/03 • • • Disazo or polyazo dyes [3]
	or anthracene series	62/032 • • • • Metal complex azo dyes [3]
49/06	 from azines, oxazines, thiazines, or thiazoles 	62/034 • • • Nitro dyes [3]
49/08	 from urea derivatives 	62/036 • • • Porphines; Azaporphines [3]
49/10	 from diphenylamines, indamines, or indophenols 	62/038 • • • Formazane dyes [3]
49/12	 from other compounds 	62/04 • • to a triazine ring
50/00	Formazane dyes; Tetrazolium dyes [3]	62/06 • • • Anthracene dyes
50/02	Tetrazolium dyes [3]	62/08 • • • Azo dyes
50/04	Metal-free formazane dyes [3]	62/085 • • • • Monoazo dyes [3]
50/06	Bis-formazane dyes [3]	62/09 • • • • Disazo or polyazo dyes [3]
50/08	Meso-acyl formazane dyes [3]	62/095 • • • Metal complex azo dyes [3]
50/10	Cationic formazane dyes [3]	62/10 • • • Porphines; Azaporphines
		62/12 • • to a pyridazine ring
51/00	Nitro or nitroso dyes	62/14 • • • Anthracene dyes
ED /00		62/16 • • • Azo dyes
53/00	Quinone imides	62/165 • • • • Monoazo dyes [3]
53/02	Indamines; Indophenols	62/17 • • • Disazo or polyazo dyes [3]
55/00	Azomethine dyes	62/175 • • • Metal complex azo dyes [3]
		62/18 • • • Porphines; Azaporphines
56/00	Azo dyes containing other chromophoric systems [3]	62/20 • • to a pyrimidine ring
56/02	 Azomethine-azo dyes [3] 	62/22 • • • Anthracene dyes
56/04	• Stilbene-azo dyes [3]	62/24 • • • Azo dyes
56/06	 Bis- or poly-stilbene-azo dyes [3] 	62/245 • • • Monoazo dyes [3]
56/08	Styryl-azo dyes [3]	62/25 • • • Disazo or polyazo dyes [3]
56/10	 Formazane-azo dyes [3] 	62/255 • • • Metal complex azo dyes [3]
56/12	 Anthraquinone-azo dyes [3] 	62/26 • • • Porphines; Azaporphines
56/14	 Phthalocyanine-azo dyes [3] 	62/28 • • to a pyrazine ring
56/16	Methine- or polymethine-azo dyes [3]	62/30 • • • Anthracene dyes
56/18	Hydrazone-azo dyes [3]	62/32 • • • Azo dyes
56/20	• Triazene-azo dyes [3]	62/325 • • • • Monoazo dyes [3]
57/00	Other synthetic dyes of known constitution	62/33 • • • • Disazo or polyazo dyes [3]
57/02	Coumarine dyes [3]	62/335 • • • • Metal complex azo dyes [3]
57/04	• Isoindoline dyes [3]	62/34 • • • Porphines; Azaporphines
57/06	Naphtholactam dyes [3]	62/343 • • to a five-membered ring [3]
57/08	Naphthalimide dyes; Phthalimide dyes [3]	62/345 • • • Anthracene dyes [3]
57/10	Metal complexes of organic compounds not being	62/347 • • • Azo dyes [3]
	dyes in uncomplexed form [3]	62/35 • • • • Monoazo dyes [3]
57/12	• Perinones, i.e. naphthoylene-aryl-imidazoles [3]	62/353 • • • • Disazo or polyazo dyes [3]
57/14	 Benzoxanthene dyes; Benzothioxanthene dyes [3] 	62/355 • • • • Metal complex azo dyes [3]
		62/357 • • Porphines; Azaporphines [3]62/36 • • to some other heterocyclic ring
59/00	Artificial dyes of unknown constitution	62/36 • to some other heterocyclic ring62/38 • • Anthracene dyes
61/00	Dyes of natural origin prepared from natural sources	62/40 • • • Azo dyes
017 00	Dyes of natural origin prepared from natural sources	62/405 • • • • Monoazo dyes [3]
62/00	Reactive dyes, i.e. dyes which form covalent bonds	62/41 • • • Disazo or polyazo dyes [3]
	with the substrates or which polymerise with	62/415 • • • Metal complex azo dyes [3]
	themselves [3]	62/42 • • Porphines; Azaporphines
62/002	• with the linkage of the reactive group being	• with the reactive group not directly attached to a
C2 /004	alternatively specified [3]	heterocyclic ring
	• Anthracene dyes [3]	62/443 • the reactive group being alternatively specified [3]
62/006	• • Azo dyes [3]	62/445 • • • Anthracene dyes [3]
	• • • Monoazo dyes [3]	62/447 • • • Azo dyes [3]
62/01	Disazo or polyazo dyes [3] Motal complay azo dyes [2]	62/45 • • • Monoazo dyes [3]
	• • Metal complex azo dyes [3]• Nitro dyes [3]	62/453 • • • Disazo or polyazo dyes [3]
		62/455 • • • • Metal complex azo dyes [3]
62/016 62/018	Porphines; Azaporphines [3]Formazane dyes [3]	62/457 • • Porphines; Azaporphines [3]
62/018	 with the reactive group directly attached to a 	62/463 • • • Formazane dyes [3]
	heterocyclic ring	

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62/465	•	•	the reactive group being an acryloyl group, a	62/67	• • • Disazo or polyazo dyes [3]
			quaternised or non-quaternised aminoalkyl	62/675	• • • • Metal complex azo dyes [3]
			carbonyl group, or a (—N) _n —CO—A—O—X or	62/68	• • Porphines; Azaporphines
			(—N) _n —CO—A—Hal group, wherein A is an alkylene or alkylidene group, X is hydrogen or an	62/763	• the reactive group being a N-methylol group or an O-derivative thereof [3]
			acyl radical of an organic or inorganic acid, Hal is	62/765	Anthracene dyes [3]
			a halogen atom, and n is 0 or 1 [3]	62/767	Azo dyes [3]
			Anthracene dyes [3]	62/77	• • • • Monoazo dyes [3]
62/47			Azo dyes [3]	62/773	• • • Disazo or polyazo dyes [3]
			Monoazo dyes [3]	62/775	• • • • Metal complex azo dyes [3]
			Disazo or polyazo dyes [3]	62/777	• • • Porphines; Azaporphines [3]
			Metal complex azo dyes [3]	62/78	with other reactive groups
			Porphines; Azaporphines [3]	62/80	Anthracene dyes
62/485	•	•	the reactive group being a halo-cyclobutyl- carbonyl, halo-cyclobutyl-vinyl-carbonyl, or halo-	62/82	• • • Azo dyes
			cyclobutenyl-carbonyl group [3]	62/825	• • • • Monoazo dyes [3]
62/487			Anthracene dyes [3]	62/83	• • • Disazo or polyazo dyes [3]
			• Azo dyes [3]	62/835	• • • • Metal complex azo dyes [3]
			Monoazo dyes [3]	62/84	 Porphines; Azaporphines
			Disazo or polyazo dyes [3]		
			Metal complex azo dyes [3]		
			Porphines; Azaporphines [3]	Lakes; M	<u>lordants; Dyestuff preparations</u>
62/503			the reactive group being an esterified or non- esterified hydroxyalkyl sulfonyl or mercaptoalkyl	63/00	Lakes
			sulfonyl group, a quaternised or non-quaternised aminoalkyl sulfonyl group, a heterylmercapto	65/00	Compositions containing mordants
			alkyl sulfonyl group, a vinyl sulfonyl or a substituted vinyl sulfonyl group, or a thiophene-	67/00	Influencing the physical, e.g. the dyeing or printing, properties of dyestuffs without chemical reaction,
			dioxide group [3]		e.g. by treating with solvents; Process features in the
62/505			Anthracene dyes [3]		making of dyestuff preparations; Dyestuff
62/507			• Azo dyes [3]		preparations of a special physical nature, e.g. tablets,
62/51			Monoazo dyes [3]		films
			Disazo or polyazo dyes [3]	67/02	 Dyestuff preparations characterised by special
			Metal complex azo dyes [3]	07.10.4	physical forms, e.g. tablets, films [3]
62/517			Porphines; Azaporphines [3]	67/04	• Grinding or milling (C09B 67/14 takes
62/523			the reactive group being an esterified or non-	67/06	precedence) [3]
			esterified hydroxyalkyl sulfonyl amido or	67/08	 Drying [3] Coated particulate pigments or dyes [3]
			hydroxyalkyl amino sulfonyl group, a quaternised	67/10	 Influencing the physical properties by treatment with
			or non-quaternised amino alkyl sulfonyl amido	07/10	a liquid, e.g. solvents (C09B 67/14, C09B 67/18,
			group, or a substituted alkyl amino sulfonyl group, or a halogen alkyl sulfonyl amido or halogen alkyl		C09B 67/20 take precedence) [3]
			amino sulfonyl group or a vinyl sulfonylamido or	67/12	• • of phthalocyanines [3]
			a substituted vinyl sulfonamido group [3]	67/14	 Influencing the physical properties by treatment with
62/525	•	•	Anthracene dyes [3]		an acid [3]
62/527			• Azo dyes [3]	67/16	 of phthalocyanines [3]
62/53	•	•	Monoazo dyes [3]	67/18	• Influencing the physical properties by treatment with
62/533	•	•	Disazo or polyazo dyes [3]		an amine [3]
62/535	•	•	 Metal complex azo dyes [3] 	67/20	 Preparations of organic pigments [3]
62/537	•	•	 Porphines; Azaporphines [3] 	67/22	Mixtures of different pigments or dyes or solid
62/54	•	•	the reactive group being an epoxy or halohydrin	a= 10 1	solutions of pigments or dyes [3]
			group [3]	67/24	Preparations of acid dyes or reactive dyes [3]
62/56	•	•	 Anthracene dyes 	67/26	• • in liquid form [3]
62/58	•	•		67/28	Preparations of vat or sulfur dyes [3]
62/585	•	•	 Monoazo dyes [3] 	67/30	• • in liquid form [3]
62/59	•	•	 Disazo or polyazo dyes [3] 	67/32	Preparations of cationic or basic dyes [3]
62/595			 Metal complex azo dyes [3] 	67/34 67/36	• • in liquid form [3] • Again directiff propagations [2]
62/60			Porphines; Azaporphines	67/36 67/38	Azoic dyestuff preparations [3] Preparations of disperse dyes [3]
62/62	•	•		67/38 67/40	 Preparations of disperse dyes [3] • in liquid form [3]
			acylated ethylenimino group or a —CO—NH— CH ₂ —CH ₂ —X group, wherein X is a halogen	67/40	• In liquid form [3]• Preparations of dyes not provided for in a single one
			atom, a quaternary ammonium group or O-acyl	0//42	of groups C09B 67/24-C09B 67/40 [3]
			and acyl is derived from an organic or inorganic	67/44	• Solutions [3]
			acid, or a beta-substituted ethylamine group	67/46	Dispersions [3]
62/64	•	•	Anthracene dyes	67/48	Crystalline modifications of pigments or dyestuff
62/66	•	•	Azo dyes	3., 10	(C09B 67/24 takes precedence) [3]
62/665	•	•	Monoazo dyes [3]	67/50	of phthalocyanines [3]

67/50 • • of phthalocyanines [3]

67/52 67/54	 • of quinacridones [3] • Separation; Purification (C09B 67/06, C09B 67/10 take precedence) [3] 	 Oyestuff salts, e.g. salts of acid dyes with basic dyes (for Na, K, or NH₄+ salts of dyes or for chlorides, sulfates or chlorozincates, <u>see</u> the relevant dye groups) [3]
		69/04 • • of anionic dyes with nitrogen containing compounds [3]
69/00	Dyes not provided for by a single group of this	69/06 • • of cationic dyes with organic acids [3]
	subclass [2]	• Dyes containing a splittable water solubilising group [3]
		69/10 • Polymeric dyes; Reaction products of dyes with monomers or with macromolecular compounds [3]

C09C TREATMENT OF INORGANIC MATERIALS, OTHER THAN FIBROUS FILLERS, TO ENHANCE THEIR PIGMENTING OR FILLING PROPERTIES (preparation of inorganic compounds or non-metallic elements C01; treatment of materials specially adapted to enhance their filling properties in mortars, concrete or artificial stone C04B 14/00, C04B 18/00, C04B 20/00); PREPARATION OF CARBON BLACK [4]

Note(s)

In this subclass, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

1/00	Treatment of specific inorganic materials other than fibrous fillers (luminescent or tenebrescent materials C09K); Preparation of carbon black	1/48 1/50	Carbon blackFurnace black
1 (00	· · · · · · · · · · · · · · · · · · ·	1/52	 Channel black
1/02	Compounds of alkaline earth metals or magnesium	1/54	 • • Acetylene black; thermal black
1/04	 Compounds of zinc 	1/56	 Treatment of carbon black
1/06	• • Lithopone	1/58	 • • • Agglomerating, pelleting, or the like by wet
1/08	 Zinc chromate 		methods
1/10	Compounds of cadmium	1/60	 • • • Agglomerating, pelleting, or the like by dry
1/12	 Cadmium sulfoselenide 		methods
1/14	 Compounds of lead 	1/62	 Metallic pigments or fillers (obtaining metal powder,
1/16	• • White lead		see the relevant class for the method used, e.g.
1/18	Red lead		B22F 9/00, C21B 15/02, C22B 5/20, C25C 5/00)
1/20	Lead chromate	1/64	• • Aluminium
1/22	Compounds of iron	1/66	 Copper alloys, e.g. bronze
1/24	Oxides of iron	1/68	 Loose abrasive particles
1/26	• • Iron blues	3/00	Treatment in general of incurrence metavials other
1/28	 Compounds of silicon 	3/00	Treatment in general of inorganic materials, other than fibrous fillers, to enhance their pigmenting or
1/30	Silicic acid		filling properties (dyeing other macromolecular
1/32	• • Ultramarine		particles C08J 3/20; dyeing macromolecular fibres
1/34	Compounds of chromium		D06P)
1/36	Compounds of titanium	3/04	 Physical treatment, e.g. grinding, treatment with
1/38	Compounds of mercury		ultrasonic vibrations [2]
1/40	Compounds of aluminium	3/06	 Treatment with inorganic compounds [2]
1/42	• • Clays (preparatory treatment for clay-wares C04B 33/04)	3/08	 Treatment with low-molecular-weight organic compounds [2]
1/44	• Carbon	3/10	 Treatment with macromolecular organic
1/46	• • Graphite (preparation of graphite C01B 31/04)		compounds [2]
	- · · · · · · · · · · · · · · · · · · ·	3/12	 Treatment with organosilicon compounds [2]

COATING COMPOSITIONS, e.g. PAINTS, VARNISHES OR LACQUERS; FILLING PASTES; CHEMICAL PAINT OR INK REMOVERS; INKS; CORRECTING FLUIDS; WOODSTAINS; PASTES OR SOLIDS FOR COLOURING OR PRINTING; USE OF MATERIALS THEREFOR (cosmetics A61K; processes for applying liquids or other fluent materials to surfaces, in general, B05D; staining wood B27K 5/02; glazes or vitreous enamels C03C; natural resins, French polish, drying-oils, driers, turpentine, per se, C09F; polishing compositions other than French polish, ski waxes C09G; adhesives or use of materials as adhesives C09J; materials for sealing or packing joints or covers C09K 3/10; materials for stopping leaks C09K 3/12; processes for the electrolytic or electrophoretic production of coatings C25D) [5]

Note(s)

- 1. In this subclass, the following terms or expressions are used with the meanings indicated:
 - "use of materials for coating compositions" means the use of known or new polymers or products;

- "rubber" includes:
 - a. natural or conjugated diene rubbers;
 - b. rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, <u>see</u> the group provided for coating compositions based on such macromolecular compounds);
- "based on" is defined by means of Note (3), below;
- "filling pastes" means materials used to fill up the holes or cavities of a substrate in order to smooth its surface prior to coating.
- 2. In this subclass, coating compositions, containing specific organic macromolecular substances are classified only according to the macromolecular substance, non-macromolecular substances not being taken into account.

Example: a coating composition containing polyethene and amino-propyltrimethoxysilane is classified in group C09D 123/06. However, coating compositions containing combinations of organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond with prepolymers or polymers other than unsaturated polymers of groups C09D 159/00-C09D 187/00 are classified according to the unsaturated non-macromolecular component in group C09D 4/00.

Example: a coating composition containing polyethene and styrene monomer is classified in group C09D 4/00.

Aspects relating to the physical nature of the coating compositions or to the effects produced, as defined in group C09D 5/00, if clearly and explicitly stated, are also classified in this subclass.

Coating compositions characterised by other features, e.g. additives, are classified in group C09D 7/00, unless the macromolecular constituent is specified.

3. In this subclass, coating compositions comprising two or more macromolecular constituents are classified according to the macromolecular constituent or constituents present in the highest proportion, i.e. the constituent on which the composition is based. If the composition is based on two or more constituents, present in equal proportions, the composition is classified according to each of these constituents.

Example: a coating composition containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group C09D 123/06. A coating composition containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups C09D 123/06 and C09D 127/06.

Subclass index

COATING COMPOSITIONS, e.g. PAINTS, VARNISHES, LACQUERS	
Based on inorganic substances	. 1/00
Based on organic macromolecular substances	.101/00-201/00
Based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon	
unsaturated bond	.4/00
Physical nature or effects produced, including use as filling pastes	.5/00
Other features	
INKS	. 11/00
WOODSTAINS	. 15/00
CHEMICAL PAINT OR INK REMOVERS	.9/00
CORRECTING FLUIDS	. 10/00
PASTES OR SOLIDS FOR COLOURING OR PRINTING	
Pencil-leads; crayon compositions; chalk compositions	.13/00
Pigment pastes	
•	

1/00	Coating compositions, e.g. paints, varnishes or
	lacquers, based on inorganic substances (C04B takes
	precedence: glazes or vitreous enamels C03C)

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

4/00 Coating compositions, e.g. paints, varnishes or lacquers, based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond [5]

- 4/02 Acrylmonomers [5]
- 4/04 • Cyanoacrylate monomers [5]
- 4/06 in combination with a macromolecular compound other than an unsaturated polymer of groups
 C09D 159/00-C09D 187/00 [5]
- 5/00 Coating compositions, e.g. paints, varnishes or lacquers, characterised by their physical nature or the effects produced; Filling pastes [5]
- 5/02 Emulsion paints
- Powdery paints (C09D 5/46 takes precedence) [4]
- 5/04 Thixotropic paints

- 5/06 Artists' paints
- 5/08 Anti-corrosive paints
- 5/10 • containing metal dust
- 5/12 • Wash primers
- 5/14 Paints containing biocides, e.g. fungicides, insecticides or pesticides (C09D 5/16 takes precedence) [6]
- 5/16 Anti-fouling paints; Underwater paints **[6]**
- 5/18 Fireproof paints
- 5/20 for coatings strippable as coherent films, e.g. temporary coatings strippable as coherent films
- 5/22 Luminous paints
- Magnetisable or magnetic paints or lacquers [2]
- 5/24 Electrically-conducting paints
- 5/25 Electrically-insulating paints or lacquers [2]
- 5/26 Thermosensitive paints
- for wrinkle, crackle, orange-peel, or similar decorative effects
- 5/29 for multicolour effects [2]
- 5/30 Camouflage paints
- 5/32 Radiation-absorbing paints
- 5/33 Radiation-reflecting paints (C09D 5/30 takes precedence) [4]

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5/34	Filling pastes (materials for sealing or packing joints	11/20	• • indelible
	or covers C09K 3/10; materials for stopping leaks C09K 3/12)	11/30	• Inkjet printing inks [2014.01]
5/36	Pearl essence, e.g. coatings containing platelet-like	11/32 11/322	characterised by colouring agents [2014.01]Pigment inks [2014.01]
0,00	pigments for pearl lustre	11/324	• • • containing carbon black [2014.01]
5/38	 Paints containing free metal not provided for in groups C09D 5/00-C09D 5/36 [2] 	11/326	• • • characterised by the pigment dispersant [2014.01]
5/44	• for electrophoretic applications (C09D 5/46 takes	11/328	• • • characterised by dyes [2014.01]
	precedence; processes for coating by electrophoresis C25D 13/00) [4]	11/34	• • Hot-melt inks [2014.01]
5/46	• for flame-spraying; for electrostatic or whirl-sintering	11/36	 based on non-aqueous solvents [2014.01]
3740	coating [4]	11/38	 characterised by non-macromolecular additives other than solvents, pigments or dyes [2014.01]
7/00	Features of coating compositions, not provided for in group C09D 5/00 (driers C09F 9/00)	11/40	 Ink-sets specially adapted for multi-colour inkjet printing [2014.01]
7/02	 Use of compounds as anti-settling agents 	11/50	Sympathetic, colour-changing or similar Sympathetic colour-changing or similar
7/04	Use of compounds as anti-skinning agents	11/52	inks [2014.01] • Electrically conductive inks [2014.01]
7/06	Use of compounds as levelling agents	11/52 11/54	 Inks based on two liquids, one liquid being the ink,
7/12	Other additives Special processes for incorporating ingredients.	11/54	the other liquid being a reaction solution, a fixer or a
7/14	Special processes for incorporating ingredients		treatment solution for the ink [2014.01]
9/00	Chemical paint or ink removers (fluid media for correction of typographical errors by coating	13/00	Pencil-leads; Crayon compositions; Chalk compositions
9/02	C09D 10/00) [4] • with abrasives		-
9/04	• with surface-active agents	15/00	Woodstains [2]
10/00	Correcting fluids, e.g. fluid media for correction of	17/00	Pigment pastes, e.g. for mixing in paints [2]
	typographical errors by coating [5]	Castina	
11/00	Inks [1, 2014.01]	derivativ	compositions based on polysaccharides or on their es [5]
11/02	• Printing inks (C09D 11/30 takes		Note(c) [2006 01]
11/023	precedence) [1, 2014.01] • Emulsion inks [2014.01]		Note(s) [2006.01]
	• • • Duplicating inks, e.g. for stencil		1. In groups C09D 101/00-C09D 201/00, any macromolecular constituent of a coating
1170255	printing [2014.01]		composition which is not identified by the
11/03	 characterised by features other than the chemical nature of the binder [2014.01] 		classification according to Note (3) after the title of subclass C09D, and the use of which is
11/033	• • characterised by the solvent [2014.01]		determined to be novel and non-obvious, must
11/037	• • characterised by the pigment [2014.01]		also be classified in a group chosen from groups
11/04	• • based on proteins		C09D 101/00-C09D 201/00. 2. Any macromolecular constituent of a coating
11/06	 based on fatty oils 		composition which is not identified by the
11/08	 based on natural resins 		classification according to Note (3) after the title
11/10	• • based on artificial resins [1, 2014.01]		of subclass C09D or Note (1) above, and which is
11/101	Inks specially adapted for printing processes involving quina hypergraphy or partials		considered to represent information of interest for
	involving curing by wave energy or particle radiation, e.g. with UV-curing following the printing [2014.01]		search, may also be classified in a group chosen from groups C09D 101/00-C09D 201/00. This can for example be the case when it is considered of
11/102	• containing macromolecular compounds		interest to enable searching of coating
	3 · · · · · · · · · · · · · · · · · · ·		interest to enable searching of couning
	obtained by reactions other than those only involving unsaturated carbon-to-carbon		compositions using a combination of classification symbols. Such non-obligatory
	involving unsaturated carbon-to-carbon bonds [2014.01]		compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional
11/103	 involving unsaturated carbon-to-carbon bonds [2014.01] of aldehydes, e.g. phenol-formaldehyde resins [2014.01] 	101/00	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information."
11/104	 involving unsaturated carbon-to-carbon bonds [2014.01] of aldehydes, e.g. phenol-formaldehyde resins [2014.01] Polyesters [2014.01] 	101/00	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified
11/104 11/105	 involving unsaturated carbon-to-carbon bonds [2014.01] of aldehydes, e.g. phenol-formaldehyde resins [2014.01] Polyesters [2014.01] Alkyd resins [2014.01] 	101/00 101/02	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information."
11/104 11/105	involving unsaturated carbon-to-carbon bonds [2014.01] • • • of aldehydes, e.g. phenol-formaldehyde resins [2014.01] • • Polyesters [2014.01] • • Alkyd resins [2014.01] • containing macromolecular compounds		compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified cellulose, or cellulose derivatives [5]
11/104 11/105	involving unsaturated carbon-to-carbon bonds [2014.01] • • • of aldehydes, e.g. phenol-formaldehyde resins [2014.01] • • • Polyesters [2014.01] • • • Alkyd resins [2014.01] • containing macromolecular compounds obtained by reactions only involving carbon-to-	101/02	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified cellulose, or cellulose derivatives [5] Cellulose; Modified cellulose [5]
11/104 11/105 11/106	involving unsaturated carbon-to-carbon bonds [2014.01] • • • of aldehydes, e.g. phenol-formaldehyde resins [2014.01] • • • Polyesters [2014.01] • • • Alkyd resins [2014.01] • containing macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [2014.01]	101/02 101/04 101/06 101/08	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified cellulose, or cellulose derivatives [5] Cellulose; Modified cellulose [5] Oxycellulose; Hydrocellulose [5] Cellulose hydrate [5] Cellulose derivatives [5]
11/104 11/105 11/106	involving unsaturated carbon-to-carbon bonds [2014.01] • • • of aldehydes, e.g. phenol-formaldehyde resins [2014.01] • • Polyesters [2014.01] • • Alkyd resins [2014.01] • containing macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [2014.01] • from unsaturated acids or derivatives thereof [2014.01]	101/02 101/04 101/06	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified cellulose, or cellulose derivatives [5] Cellulose; Modified cellulose [5] Oxycellulose; Hydrocellulose [5] Cellulose hydrate [5] Cellulose derivatives [5] Esters of organic acids (of both organic acids and
11/104 11/105 11/106 11/107 11/108	involving unsaturated carbon-to-carbon bonds [2014.01] • • • of aldehydes, e.g. phenol-formaldehyde resins [2014.01] • • Polyesters [2014.01] • • Alkyd resins [2014.01] • containing macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [2014.01] • from unsaturated acids or derivatives thereof [2014.01]	101/02 101/04 101/06 101/08 101/10	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified cellulose, or cellulose derivatives [5] Cellulose; Modified cellulose [5] Oxycellulose; Hydrocellulose [5] Cellulose hydrate [5] Cellulose derivatives [5] Esters of organic acids (of both organic acids and inorganic acids C09D 101/20) [5]
11/104 11/105 11/106 11/107 11/108 11/12	involving unsaturated carbon-to-carbon bonds [2014.01] • • • of aldehydes, e.g. phenol-formaldehyde resins [2014.01] • • Polyesters [2014.01] • • Alkyd resins [2014.01] • containing macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [2014.01] • from unsaturated acids or derivatives thereof [2014.01] • Hydrocarbon resins [2014.01] • based on waxes or bitumen	101/02 101/04 101/06 101/08 101/10	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified cellulose, or cellulose derivatives [5] Cellulose; Modified cellulose [5] Cellulose; Hydrocellulose [5] Cellulose hydrate [5] Cellulose derivatives [5] Esters of organic acids (of both organic acids and inorganic acids C09D 101/20) [5] Cellulose acetate [5]
11/104 11/105 11/106 11/107 11/108 11/12 11/14	involving unsaturated carbon-to-carbon bonds [2014.01] • • • of aldehydes, e.g. phenol-formaldehyde resins [2014.01] • • • Polyesters [2014.01] • • • Alkyd resins [2014.01] • • containing macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [2014.01] • • from unsaturated acids or derivatives thereof [2014.01] • • Hydrocarbon resins [2014.01] • based on waxes or bitumen • based on carbohydrates	101/02 101/04 101/06 101/08 101/10 101/12 101/14	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified cellulose, or cellulose derivatives [5] Cellulose; Modified cellulose [5] Oxycellulose; Hydrocellulose [5] Cellulose hydrate [5] Cellulose derivatives [5] Esters of organic acids (of both organic acids and inorganic acids C09D 101/20) [5] Cellulose acetate [5] Mixed esters, e.g. cellulose acetate-butyrate [5]
11/104 11/105 11/106 11/107 11/108 11/12	involving unsaturated carbon-to-carbon bonds [2014.01] • • • of aldehydes, e.g. phenol-formaldehyde resins [2014.01] • • Polyesters [2014.01] • • Alkyd resins [2014.01] • containing macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [2014.01] • from unsaturated acids or derivatives thereof [2014.01] • Hydrocarbon resins [2014.01] • based on waxes or bitumen	101/02 101/04 101/06 101/08 101/10	compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information." Coating compositions based on cellulose, modified cellulose, or cellulose derivatives [5] Cellulose; Modified cellulose [5] Cellulose; Hydrocellulose [5] Cellulose hydrate [5] Cellulose derivatives [5] Esters of organic acids (of both organic acids and inorganic acids C09D 101/20) [5] Cellulose acetate [5]

101/20	 Esters of both organic acids and inorganic acids [5] 	119/00	Coating compositions based on rubbers, not provided for in groups C09D 107/00-C09D 117/00 [5]
101/22	• • Cellulose xanthate [5]	119/02	• Latex [5]
101/24	• • • Viscose [5]		
101/26	• • Cellulose ethers [5]	121/00	Coating compositions based on unspecified
101/28	• • • Alkyl ethers [5]	101/00	rubbers [5]
101/30	• • • Aryl ethers; Aralkyl ethers [5]	121/02	• Latex [5]
101/32	Cellulose ether-esters [5]		
	.,	Coating	compositions based on organic macromolecular
103/00	Coating compositions based on starch, amylose or amylopectin or on their derivatives or degradation	compour	nds obtained by reactions only involving carbon-to- nsaturated bonds [5]
400 /00	products [5]		
103/02	• Starch; Degradation products thereof, e.g. dextrin [5]		Note(s)
103/04	Starch derivatives [5]		1. In groups C09D 123/00-C09D 149/00, "aliphatic
103/06	• • Esters [5]		radical" means an acyclic or a non-aromatic
103/08	• • Ethers [5]		carbocyclic carbon skeleton which is considered
103/10	• • Oxidised starch [5]		to be terminated by every bond to:
103/12	 Amylose; Amylopectin; Degradation products thereof [5] 		a. an element other than carbon;b. a carbon atom having a double bond to one
103/14	 Amylose derivatives; Amylopectin derivatives [5] 		atom other than carbon; c. an aromatic carbocyclic ring or a
103/16	• • Esters [5]		 an aromatic carbocyclic ring or a heterocyclic ring.
103/18	• • Ethers [5]		2. In groups C09D 123/00-C09D 149/00, in the
103/20	Oxidised amylose; Oxidised amylopectin [5]		absence of an indication to the contrary, a copolymer is classified according to the major
105/00	Coating compositions based on polysaccharides or on		monomeric component.
	their derivatives, not provided for in groups		1
	C09D 101/00 or C09D 103/00 [5]	123/00	Coating compositions based on homopolymers or
105/02	 Dextran; Derivatives thereof [5] 		copolymers of unsaturated aliphatic hydrocarbons
105/04	 Alginic acid; Derivatives thereof [5] 		having only one carbon-to-carbon double bond;
105/06	 Pectin; Derivatives thereof [5] 		Coating compositions based on derivatives of such
105/08	 Chitin; Chondroitin sulfate; Hyaluronic acid; 	100 /00	polymers [5]
	Derivatives thereof [5]	123/02	not modified by chemical after-treatment [5]
105/10	 Heparin; Derivatives thereof [5] 	123/04	Homopolymers or copolymers of ethene [5]
105/12	 Agar-agar; Derivatives thereof [5] 	123/06	• • Polyethene [5]
105/14	 Hemicellulose; Derivatives thereof [5] 	123/08	• • Copolymers of ethene (C09D 123/16 takes
105/16	 Cyclodextrin; Derivatives thereof [5] 	100/10	precedence) [5]
		123/10	• • Homopolymers or copolymers of propene [5]
		123/12	• • Polypropene [5]
	compositions based on rubbers or on their	123/14	• • Copolymers of propene (C09D 123/16 takes
derivativ	<u>es [5]</u>	100/16	precedence) [5]
107/00	Coating composition based on natural rubber [5]	123/16	Ethene-propene or ethene-propene-diene
107/02	• Latex [5]	123/18	copolymers [5] • Homopolymers or copolymers of hydrocarbons
109/00	Coating compositions based on homopolymers or	100 (00	having four or more carbon atoms [5]
	copolymers of conjugated diene hydrocarbons [5]	123/20	• • having four to nine carbon atoms [5]
109/02	Copolymers with acrylonitrile [5]	123/22	• • • Copolymers of isobutene; Butyl rubber [5]
109/04	• • Latex [5]	123/24	 having ten or more carbon atoms [5]
109/06	Copolymers with styrene [5]	123/26	 modified by chemical after-treatment [5]
109/08	• • Latex [5]	123/28	 by reaction with halogens or halogen-containing
109/10	• Latex (C09D 109/04, C09D 109/08 take		compounds (C09D 123/32 takes precedence) [5]
100/10	precedence) [5]	123/30	• • by oxidation [5]
	F(t-)	123/32	 by reaction with phosphorus- or sulfur- containing
111/00	Coating compositions based on homopolymers or		compounds [5]
	copolymers of chloroprene [5]	123/34	 • • by chlorosulfonation [5]
111/02	• Latex [5]	123/36	• • by reaction with nitrogen-containing compounds,
			e.g. by nitration [5]
113/00	Coating compositions based on rubbers containing	125/00	Coating compositions based on homopolymers or
445 (00	carboxyl groups [5]	125/00	Coating compositions based on homopolymers or
113/02	• Latex [5]		copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one
115/00	Coating compositions based on subbar devicatives		carbon-to-carbon double bond, and at least one
113/00	Coating compositions based on rubber derivatives (C09D 111/00, C09D 113/00 take precedence) [5]		being terminated by an aromatic carbocyclic ring;
115/02	• Rubber derivatives containing halogen [5]		Coating compositions based on derivatives of such
113/02	ranner derivatives containing natogen [3]		polymers [5]
117/00	Coating compositions based on reclaimed rubber [5]	125/02	 Homopolymers or copolymers of hydrocarbons [5]
		125/04	 Homopolymers or copolymers of styrene [5]
		-	1 0

125/06 125/08 125/10 125/12 125/14 125/16 125/18	 Polystyrene [5] Copolymers of styrene (C09D 129/08, C09D 135/06, C09D 155/02 take precedence) [5] with conjugated dienes [5] with unsaturated nitriles [5] with unsaturated esters [5] Homopolymers or copolymers of alkyl-substituted styrenes [5] Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen [5] 	131/00 131/02 131/04 131/06	Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid, or of a haloformic acid (based on hydrolysed polymers CO9D 129/00); Coating compositions based on derivatives of such polymers [5] • Homopolymers or copolymers of esters of monocarboxylic acids [5] • Homopolymers or copolymers of vinyl acetate [5]
127/00	Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen; Coating compositions based on derivatives of such polymers [5]	131/08 133/00	polycarboxylic acids [5] • of phthalic acid [5] Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one
127/02	 not modified by chemical after-treatment [5] 		carbon-to-carbon double bond, and at least one
127/04	 containing chlorine atoms [5] 		being terminated by only one carboxyl radical, or of
127/06	Homopolymers or copolymers of vinyl		salts, anhydrides, esters, amides, imides, or nitriles
12//00	chloride [5]		thereof; Coating compositions based on derivatives
127/08	• • Homopolymers or copolymers of vinylidene chloride [5]	133/02	of such polymers [5]Homopolymers or copolymers of acids; Metal or ammonium salts thereof [5]
127/10	 containing bromine or iodine atoms [5] 	122/04	
127/12	containing fluorine atoms [5]	133/04	Homopolymers or copolymers of esters [5]
127/14	• • Homopolymers or copolymers of vinyl fluoride [5]	133/06	 of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as part of the carboxyl radical [5]
127/16	• • • Homopolymers or copolymers of vinylidene fluoride [5]	133/08	• • • Homopolymers or copolymers of acrylic acid esters [5]
127/18	• • • Homopolymers or copolymers of tetrafluoroethene [5]	133/10	• • • Homopolymers or copolymers of methacrylic acid esters [5]
127/20	• • • Homopolymers or copolymers of hexafluoropropene [5]	133/12	• • • • Homopolymers or copolymers of methyl methacrylate [5]
127/22 127/24	modified by chemical after-treatment [5]halogenated [5]	133/14	 of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy oxygen [5]
129/00	Coating compositions based on homopolymers or copolymers of compounds having one or more	133/16	• • Homopolymers or copolymers of esters containing halogen atoms [5]
	unsaturated aliphatic radicals, each having only one	133/18	Homopolymers or copolymers of nitriles [5]
	carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo,	133/20	Homopolymers or copolymers of acrylonitrile (C09D 155/02 takes precedence) [5]
	ketonic, acetal, or ketal radical; Coating compositions based on hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic	133/22	Homopolymers or copolymers of nitriles containing four or more carbon atoms [5]
	acids; Coating compositions based on derivatives of such polymers [5]	133/24	 Homopolymers or copolymers of amides or imides [5]
129/02	 Homopolymers or copolymers of unsaturated alcohols (C09D 129/14 takes precedence) [5] 	133/26	• • Homopolymers or copolymers of acrylamide or methacrylamide [5]
129/04	 Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids [5] 	135/00	Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one
129/06	 Copolymers of allyl alcohol [5] 		being terminated by a carboxyl radical, and
129/08	• • • with vinyl aromatic monomers [5]		containing at least another carboxyl radical in the
129/10	 Homopolymers or copolymers of unsaturated ethers (C09D 135/08 takes precedence) [5] 		molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Coating compositions
129/12	 Homopolymers or copolymers of unsaturated ketones [5] 	135/02	based on derivatives of such polymers [5]Homopolymers or copolymers of esters
129/14	Homopolymers or copolymers of acetals or ketals		(C09D 135/06, C09D 135/08 take precedence) [5]
	obtained by polymerisation of unsaturated acetals or ketals or by after-treatment of polymers of	135/04	• Homopolymers or copolymers of nitriles (C09D 135/06, C09D 135/08 take precedence) [5]
	unsaturated alcohols [5]	135/06	 Copolymers with vinyl aromatic monomers [5]
		135/08	Copolymers with vinyl ethers [5]

127/00	Costing compatitions have done however become	140/00	Casting assessed as bound as bound as
137/00	Coating compositions based on homopolymers or copolymers of compounds having one or more	149/00	Coating compositions based on homopolymers or copolymers of compounds having one or more
	unsaturated aliphatic radicals, each having only one		carbon-to-carbon triple bonds; Coating compositions
	carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing		based on derivatives of such polymers [5]
	oxygen (based on polymers of cyclic esters of	151/00	Coating compositions based on graft polymers in
	polyfunctional acids C09D 131/00; based on polymers		which the grafted component is obtained by reactions only involving carbon-to-carbon
	of cyclic anhydrides of unsaturated acids C09D 135/00); Coating compositions based on derivatives of such		unsaturated bonds (based on ABS polymers
	polymers [5]		C09D 155/02); Coating compositions based on
139/00	Coating compositions based on homopolymers or	151/02	derivatives of such polymers [5]grafted on to polysaccharides [5]
1557 00	copolymers of compounds having one or more	151/02	• grafted on to rubbers [5]
	unsaturated aliphatic radicals, each having only one	151/06	 grafted on to homopolymers or copolymers of
	carbon-to-carbon double bond, and at least one being terminated by a single or double bond to		aliphatic hydrocarbons containing only one carbon-
	nitrogen or by a heterocyclic ring containing	151/08	to-carbon double bond [5] • grafted on to macromolecular compounds obtained
	nitrogen; Coating compositions based on derivatives of such polymers [5]	101,00	otherwise than by reactions only involving carbon-to-
139/02	Homopolymers or copolymers of vinylamine [5]	454/40	carbon unsaturated bonds [5]
139/04	Homopolymers or copolymers of monomers	151/10	• grafted on to inorganic materials [5]
	containing heterocyclic rings having nitrogen as ring member [5]	153/00	Coating compositions based on block copolymers
139/06	Homopolymers or copolymers of N-vinyl-		containing at least one sequence of a polymer obtained by reactions only involving carbon-to-
	pyrrolidones [5]		carbon unsaturated bonds; Coating compositions
139/08	Homopolymers or copolymers of vinyl-		based on derivatives of such polymers [5]
	pyridine [5]	153/02	 Vinyl aromatic monomers and conjugated dienes [5]
141/00	Coating compositions based on homopolymers or	155/00	Coating composition based on homopolymers or
	copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one		copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds,
	carbon-to-carbon double bond, and at least one		not provided for in groups C09D 123/00-
	being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Coating	455 (00	C09D 153/00 [5]
	compositions based on derivatives of such	155/02 155/04	ABS [Acrylonitrile-Butadiene-Styrene] polymers [5]Polyadducts obtained by the diene synthesis [5]
	polymers [5]	133/04	
143/00	Coating compositions based on homopolymers or	157/00	Coating compositions based on unspecified polymers obtained by reactions only involving carbon-to-
	copolymers of compounds having one or more		carbon unsaturated bonds [5]
	unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing	157/02	 Copolymers of mineral oil hydrocarbons [5]
	boron, silicon, phosphorus, selenium, tellurium or a	157/04	 Copolymers in which only the monomer in minority is defined [5]
	metal; Coating compositions based on derivatives of such polymers [5]	157/06	Homopolymers or copolymers containing elements
143/02	Homopolymers or copolymers of monomers		other than carbon and hydrogen [5]
	containing phosphorus [5]	157/08	containing halogen atoms [5]
143/04	 Homopolymers or copolymers of monomers containing silicon [5] 	157/10 157/12	containing oxygen atoms [5]containing nitrogen atoms [5]
	Containing Sincon [5]	13//12	Containing introgen atoms [5]
145/00	Coating compositions based on homopolymers or copolymers of compounds having no unsaturated	Castina	
	aliphatic radicals in a side chain, and having one or		compositions based on organic macromolecular ads obtained otherwise than by reactions only involving
	more carbon-to-carbon double bonds in a		o-carbon unsaturated bonds [5]
	carbocyclic or in a heterocyclic ring system; Coating compositions based on derivatives of such polymers	159/00	Coating compositions based on polyacetals; Coating
	(based on polymers of cyclic esters of polyfunctional	1337 00	compositions based on derivatives of polyacetals [5]
	acids C09D 131/00; based on polymers of cyclic anhydrides or imides C09D 135/00) [5]	159/02	Polyacetals containing polyoxymethylene sequence
145/02	• Coumarone-indene polymers [5]	159/04	only [5] • Copolyoxymethylenes [5]
147/00	Coating compositions based on homelymous or		
147/00	Coating compositions based on homolymers or copolymers of compounds having one or more	161/00	Coating compositions based on condensation polymers of aldehydes or ketones (with polyalcohols
	unsaturated aliphatic radicals, at least one having		C09D 159/00; with polynitriles C09D 177/00); Coating
	two or more carbon-to-carbon double bonds; Coating compositions based on derivatives of such		compositions based on derivatives of such polymers [5]
	polymers (C09D 145/00 takes precedence; based on	161/02	Condensation polymers of aldehydes or ketones
	conjugated diene rubbers C09D 109/00- C09D 121/00) [5]		only [5]
	2002 IEI/00/ [0]	161/04	Condensation polymers of aldehydes or ketones with phenols only [5]
		161/06	• • of aldehydes with phenols [5]

161/08	• • • with monohydric phenols [5]	169/00	Coating compositions based on polycarbonates;
161/10	• • • • Phenol-formaldehyde condensates [5]		Coating compositions based on derivatives of
161/12	• • • with polyhydric phenols [5]		polycarbonates [5]
161/14	 • Modified phenol-aldehyde condensates [5] 	171/00	Conting compositions based on polyethers obtained
161/16	 of ketones with phenols [5] 	1/1/00	Coating compositions based on polyethers obtained by reactions forming an ether link in the main chain
161/18	 Condensation polymers of aldehydes or ketones with 		(based on polyacetals C09D 159/00; based on epoxy
	aromatic hydrocarbons or their halogen derivatives		resins C09D 163/00; based on polythioether-ethers
	only [5]		C09D 181/02; based on polyethersulfones
161/20	 Condensation polymers of aldehydes or ketones with 		C09D 181/06); Coating compositions based on
	only compounds containing hydrogen attached to		derivatives of such polymers [5]
161/22	nitrogen (with amino phenols C09D 161/04) [5]	171/02	Polyalkylene oxides [5]
161/22	 of aldehydes with acyclic or carbocyclic compounds [5] 	171/03	• • Polyepihalohydrins [5]
161/24	• • with urea or thiourea [5]	171/08	Polyethers derived from hydroxy compounds or from their most like derivatives (COOD 171/03 teless).
161/26	• • of aldehydes with heterocyclic compounds [5]		their metallic derivatives (C09D 171/02 takes precedence) [5]
161/28	• • • with melamine [5]	171/10	• • from phenols [5]
161/30	of aldehydes with heterocyclic and acyclic or	171/12	Polyphenylene oxides [5]
	carbocyclic compounds [5]	171/14	Furfuryl alcohol polymers [5]
161/32	 Modified amine-aldehyde condensates [5] 	1,1,1	i urungi areonor porginero (o)
161/34	 Condensation polymers of aldehydes or ketones with 	173/00	Coating compositions based on macromolecular
	monomers covered by at least two of the groups		compounds obtained by reactions forming a linkage
	C09D 161/04, C09D 161/18 and C09D 161/20 [5]		containing oxygen or oxygen and carbon in the main
163/00	Coating compositions based on epoxy resins; Coating		chain, not provided for in groups C09D 159/00- C09D 171/00; Coating compositions based on
103/00	compositions based on derivatives of epoxy resins [5]		derivatives of such polymers [5]
163/02	Polyglycidyl ethers of bis-phenols [5]	173/02	Polyanhydrides [5]
163/04	• Epoxynovolacs [5]		
163/06	Triglycidylisocyanurates [5]	175/00	Coating compositions based on polyureas or
163/08	Epoxidised polymerised polyenes [5]		polyurethanes; Coating compositions based on
163/10	Epoxy resins modified by unsaturated compounds [5]	175/02	derivatives of such polymers [5]
			• Polyureas [5]
	Note(s)	175/04 175/06	Polyurethanes [5]• from polyesters [5]
	In groups C09D 165/00-C09D 185/00, in the absence of	175/08	• • from polyethers [5]
	an indication to the contrary, coating compositions based on macromolecular compounds obtained by	175/00	• • from polyacetals [5]
	reactions forming two different linkages in the main	175/10	 from compounds containing nitrogen and active
	chain are classified only according to the linkage	170712	hydrogen, the nitrogen atom not being part of an
	present in excess.		isocyanate group [5]
405 (00		175/14	 Polyurethanes having carbon-to-carbon
165/00	Coating compositions based on macromolecular compounds obtained by reactions forming a carbon-		unsaturated bonds [5]
	to-carbon link in the main chain (C09D 107/00-	175/16	having terminal carbon-to-carbon unsaturated
	C09D 157/00, C09D 161/00 take precedence); Coating		bonds [5]
	compositions based on derivatives of such	177/00	Coating compositions based on polyamides obtained
	polymers [5]	177,00	by reactions forming a carboxylic amide link in the
165/02	 Polyphenylenes [5] 		main chain (based on polyhydrazides C09D 179/06;
165/04	Polyxylylenes [5]		based on polyamide-imides C09D 179/08); Coating
167/00	Coating compositions based on polyesters obtained		compositions based on derivatives of such
107/00	by reactions forming a carboxylic ester link in the	177/00	polymers [5]
	main chain (based on polyester-amides C09D 177/12;	177/02	 Polyamides derived from omega-amino carboxylic acids or from lactams thereof (C09D 177/10 takes
	based on polyester-imides C09D 179/08); Coating		precedence) [5]
	compositions based on derivatives of such	177/04	Polyamides derived from alpha-amino carboxylic
	polymers [5]		acids (C09D 177/10 takes precedence) [5]
167/02	Polyesters derived from dicarboxylic acids and No. 100 pt. 167/06 tells as 100 pt. 167/06 tel	177/06	 Polyamides derived from polyamines and
	dihydroxy compounds (C09D 167/06 takes precedence) [5]		polycarboxylic acids (C09D 177/10 takes
167/03	 the dicarboxylic acids and dihydroxy compounds 		precedence) [5]
107705	having the hydroxy and the carboxyl groups	177/08	• • from polyamines and polymerised unsaturated
	directly linked to aromatic rings [5]	177/10	fatty acids [5]
167/04	Polyesters derived from hydroxy carboxylic acids,	177/10	 Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of
	e.g. lactones (C09D 167/06 takes precedence) [5]		polyamines and polycarboxylic acids [5]
4.05 (0.0	 Unsaturated polyesters having carbon-to-carbon 	455/40	
167/06	* *	177/12	Polyester-amides [5]
	unsaturation [5]	177/12	Polyester-amides [5]
167/06	* *	177/12	Polyester-amides [5]

• Polyesters modified with higher fatty oils or their acids, or with natural resins or resin acids [5]

179/00	Coating compositions based on macromolecular compounds obtained by reactions forming in the	185/02 185/04	containing phosphorus [5]containing boron [5]
	main chain of the macromolecule a linkage containing nitrogen, with or without oxygen, or carbon only, not provided for in groups CO9D 161/00-CO9D 177/00 [5]	187/00	Coating compositions based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving
179/02	• Polyamines [5]		unsaturated carbon-to-carbon bonds [5]
179/04	 Polycondensates having nitrogen-containing 		
	heterocyclic rings in the main chain; Polyhydrazides;	6	
179/06	Polyamide acids or similar polyimide precursors [5]Polyhydrazides; Polytriazoles; Polyamino-		compositions based on natural macromolecular nds or on derivatives thereof [5]
	triazoles; Polyoxadiazoles [5]	189/00	Coating compositions based on proteins; Coating
179/08	 Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide 	189/02	compositions based on derivatives thereof [5] • Casein-aldehyde condensates [5]
	precursors [5]		-
404/00		189/04	 Products derived from waste materials, e.g. horn, hoof or hair [5]
181/00	Coating compositions based on macromolecular compounds obtained by reactions forming in the	189/06	derived from leather or skin [5]
	main chain of the macromolecule a linkage	191/00	Coating compositions based on oils, fats or waxes;
	containing sulfur, with or without nitrogen, oxygen, or carbon only; Coating compositions based on polysulfones; Coating compositions based on	1517 00	Coating compositions based on derivatives thereof (polishing compositions, ski waxes C09G) [5]
	derivatives of such polymers [5]	191/02	 Vulcanised oils, e.g. factice [5]
181/02	• Polythioethers; Polythioether-ethers [5]	191/04	• Linoxyn [5]
181/04	• Polysulfides [5]	191/06	• Waxes [5]
181/06	• Polysulfones; Polyethersulfones [5]	191/08	Mineral waxes [5]
181/08	• Polysulfonates [5]	1317 00	Militar waxes [6]
181/10	• Polysulfonamides; Polysulfonimides [5]	193/00	Coating compositions based on natural resins; Coating compositions based on derivatives thereof
183/00	Coating compositions based on macromolecular		(based on polysaccharides C09D 101/00-C09D 105/00;
	compounds obtained by reactions forming in the		based on natural rubber C09D 107/00; polishing
	main chain of the macromolecule a linkage	400.400	compositions C09G) [5]
	containing silicon, with or without sulfur, nitrogen,	193/02	• Shellac [5]
	oxygen, or carbon only; Coating compositions based on derivatives of such polymers [5]	193/04	• Rosin [5]
183/02	• Polysilicates [5]	195/00	Coating compositions based on bituminous
183/04	 Polysiloxanes [5] 		materials, e.g. asphalt, tar or pitch [5]
183/05	 containing silicon bound to hydrogen [5] 	197/00	Coating compositions based on lignin-containing
183/06	• • containing silicon bound to oxygen-containing groups (C09D 183/12 takes precedence) [5]		materials (based on polysaccharides C09D 101/00-C09D 105/00) [5]
183/07	 containing silicon bound to unsaturated aliphatic groups [5] 	197/02	 Lignocellulosic material, e.g. wood, straw or bagasse [5]
183/08	 containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen [5] 	199/00	Coating compositions based on natural macromolecular compounds or on derivatives
183/10	Block or graft copolymers containing polysiloxane sequences (obtained by polymerising a compound		thereof, not provided for in groups C09D 101/00- C09D 107/00 or C09D 189/00-C09D 197/00 [5]
	having a carbon-to-carbon double bond on to a polysiloxane C09D 151/08, C09D 153/00) [5]		
183/12	• containing polyether sequences [5]		
183/14	in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms	201/00	Coating compositions based on unspecified macromolecular compounds [5]
	(C09D 183/10 takes precedence) [5]	201/02	 characterised by the presence of specified groups [5]
183/16	in which all the silicon atoms are connected by	201/04	 containing halogen atoms [5]
	linkages other than oxygen atoms [5]	201/06	 containing oxygen atoms [5]
		201/08	• • • Carboxyl groups [5]
185/00	Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon; Coating compositions based on	201/10	containing hydrolysable silane groups [5]
C09F	derivatives of such polymers [5] NATURAL RESINS: FRENCH POLISH: DRYING-OIL	S: DRIERS	(SICCATIVES): TURPENTINE

C09F NATURAL RESINS; FRENCH POLISH; DRYING-OILS; DRIERS (SICCATIVES); TURPENTINE

Obtaining, purification, or chemical modification of

natural resins, e.g. oleo-resins

1/00

- 1/02 Purification
- 1/04 Chemical modification, e.g. esterification

3/00 Obtaining spirits of turpentine

3/02 • as a by-product in the paper-pulping process

5/00 Obtaining drying-oils

- 5/02 from natural sources
- 5/04 • from cashew nuts
- 5/06 by dehydration of hydroxylated fatty acids or oils
- 5/08 by esterification of fatty acids
- 5/10 Refining
- 5/12 • by distillation

7/00 Chemical modification of drying-oils (factice C08H)

- 7/02 by oxidising
- 7/04 by voltolising
- 7/06 by polymerisation
- 7/08 by isomerisation
- 7/10 by re-esterification
- 7/12 Apparatus therefor

9/00 Compounds to be used as driers (siccatives)

11/00 Preparation of French polish

C09G POLISHING COMPOSITIONS OTHER THAN FRENCH POLISH; SKI WAXES

1/00	Polishing compositions (French polish C09F 11/00; detergents C11D)	1/12	• • • mixtures of wax and silicon-containing polycondensates
1/02	 containing abrasives or grinding agents 	1/14	 based on non-waxy substances
1/04	 Aqueous dispersions (C09G 1/02 takes precedence) 	1/16	 on natural or synthetic resins
1/06	Other polishing compositions	1/18	 on other substances
1/08	based on wax		
1/10	• • • based on mixtures of wax and natural or synthetic resin	3/00	Ski waxes
С09Н	PREPARATION OF GLUE OR GELATINE		
1/00	Pretreatment of collagen-containing raw materials for the manufacture of glue	3/02	Purification of solutions of gelatine
1/02	 of bones (defatting bones C11B) 	5/00	Stabilisation of solutions of glue or gelatine
1/04	 of hides, hoofs, or leather scrap (recovery of tanning agents C14C) 	7/00	Preparation of water-insoluble gelatine
3/00	Isolation of glue or gelatine from raw materials, e.g.	9/00 9/02	Drying of glue or gelatine • in the form of foils

ADHESIVES; NON-MECHANICAL ASPECTS OF ADHESIVE PROCESSES IN GENERAL; ADHESIVE PROCESSES NOT PROVIDED FOR ELSEWHERE; USE OF MATERIALS AS ADHESIVES (surgical adhesives A61L 24/00; adhesives on the basis of non specified organic macromolecular compounds used as bonding agents in layered products B32B; labelling fabrics or comparable materials or articles with deformable surface using adhesives and thermo-activatable adhesives respectively B65C 5/02, B65C 5/04; preparation of glue or gelatine C09H; adhesive labels, tag tickets or similar identification of indication means G09F 3/10) [5]

Note(s)

- 1. In this subclass, the following terms or expressions are used with the meanings indicated:
 - "use of materials as adhesives" means the use of known or new polymers or products;
 - "rubber" includes:
 - a. natural or conjugated diene rubbers;
 - b. rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, <u>see</u> the group provided for adhesives based on such macromolecular compounds);
 - "based on" is defined by means of Note (3), below.
- 2. In this subclass, adhesives containing specific organic macromolecular substances are classified only according to the macromolecular substance, non-macromolecular substances not being taken into account.

Example: an adhesive containing polyethene and amino-propyltrimethoxysilane is classified in group C09J 123/06.

However, adhesives containing combinations of organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond with prepolymers or polymers other than unsaturated polymers of groups C09J 159/00-C09J 187/00 are classified according to the unsaturated non-macromolecular component in group C09J 4/00.

Example: an adhesive containing polyethene and styrene monomer is classified in group C09J 4/00.

Aspects relating to the physical nature of the adhesives or to the effects produced, as defined in group C09J 9/00, if clearly and explicitly stated, are also classified in this subclass.

Adhesives characterised by other features, e.g. additives, are classified in group C09J 11/00, unless the macromolecular constituent is specified.

3. In this subclass, adhesives comprising two or more macromolecular constituents are classified according to the macromolecular constituent or constituents present in the highest proportion, i.e. the constituent on which the adhesive is based. If the adhesive is based on two or more constituents, present in equal proportions, the adhesive is classified according to each of these constituents. Example: an adhesive containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group C09J 123/06. An adhesive containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups C09J 123/06 and C09J 127/06.

Subclass index

ADHESIVES	
Based on inorganic constituents	1/00
Based on organic macromolecular constituents	101/00-201/00
Based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon	
unsaturated bond	4/00
Physical nature or effects produced	9/00

Other features, e.g. additives	.11/00
ADHESIVE PROCESSES IN GENERAL; ADHESIVE PROCESSES NOT PROVIDED FOR	
ELSEWHERE	.5/00
ADHESIVES IN THE FORM OF FILMS OR FOILS	.7/00

1/00 Adhesives based on inorganic constituents

1/02 • containing water-soluble alkali silicates

4/00 Adhesives based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond [5]

- 4/02 Acrylmonomers [5]
- 4/04 • Cyanoacrylate monomers [5]
- 4/06 in combination with a macromolecular compound other than an unsaturated polymer of groups
 C09J 159/00-C09J 187/00 [5]

5/00 Adhesive processes in general; Adhesive processes not provided for elsewhere, e.g. relating to primers

- 5/02 involving pretreatment of the surfaces to be joined
- involving separate application of adhesive ingredients to the different surfaces to be joined
- 5/06 involving heating of the applied adhesive
- 5/08 using foamed adhesives
- Joining materials by welding overlapping edges with an insertion of plastic material

7/00 Adhesives in the form of films or foils

- 7/02 on carriers
- on paper or textile fabric (adhesive bandages, dressings or absorbent pads A61L 15/16)

9/00 Adhesives characterised by their physical nature or the effects produced, e.g. glue sticks (C09J 7/00 takes precedence) [5]

9/02 • Electrically-conducting adhesives (electrically conductive adhesives specially adapted for use in therapy or testing <u>in vivo</u> A61K 50/00) [5]

11/00 Features of adhesives not provided for in group C09J 9/00, e.g. additives [5]

- 11/02 Non-macromolecular additives [5]
- 11/04 • inorganic **[5]**
- 11/06 • organic [5]
- 11/08 Macromolecular additives [5]

Adhesives based on polysaccharides or on their derivatives [5]

Note(s)

1. In groups C09J 101/00-C09J 201/00, any macromolecular constituent of an adhesive composition which is not identified by the classification according to Note (3) after the title of subclass C09J, and the use of which is determined to be novel and non-obvious, must also be classified in a group chosen from groups C09J 101/00-C09J 201/00.

2. Any macromolecular constituent of an adhesive composition which is not identified by the classification according to Note (3) after the title of subclass C09J or Note (1) above, and which is considered to represent information of interest for search, may also be classified in a group chosen from groups C09J 101/00-C09J 201/00. This can, for example, be the case when it is considered of interest to enable searching of adhesive compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information".

101/00 Adhesives based on cellulose, modified cellulose, or cellulose derivatives [5]

- 101/02 Cellulose; Modified cellulose [5]
- 101/04 • Oxycellulose; Hydrocellulose [5]
- 101/06 • Cellulose hydrate **[5]**
- 101/08 Cellulose derivatives [5]
- 101/10 Esters of organic acids (of both organic acids and inorganic acids C09J 101/20) [5]
- 101/12 • Cellulose acetate **[5]**
- 101/14 • Mixed esters, e.g. cellulose acetate-butyrate [5]
- Esters of inorganic acids (of both organic acids and inorganic acids C09J 101/20) [5]
- 101/18 • Cellulose nitrate **[5]**
- 101/20 Esters of both organic acids and inorganic acids [5]
- 101/22 • Cellulose xanthate **[5]**
- 101/24 • Viscose [5]
- 101/26 • Cellulose ethers **[5]**
- 101/28 • Alkyl ethers [5]
- 101/30 • Aryl ethers; Aralkyl ethers [5]
- 101/32 • Cellulose ether-esters [5]

103/00 Adhesives based on starch, amylose or amylopectin or on their derivatives or degradation products [5]

- Starch; Degradation products thereof, e.g. dextrin [5]
- 103/04 Starch derivatives [5]
- 103/06 • Esters [5]
- 103/08 • Ethers [5]
- 103/10 • Oxidised starch [5]
- 103/12 Amylose; Amylopectin; Degradation products thereof [5]
- 103/14 Amylose derivatives; Amylopectin derivatives [5]
- 103/16 • Esters [5]
- 103/18 • Ethers [5]
- 103/20 • Oxidised amylose; Oxidised amylopectin [5]

105/00 Adhesives based on polysaccharides or on their derivatives, not provided for in groups C09J 101/00 or C09J 103/00 [5]

- 105/02 Dextran; Derivatives thereof [5]
- Alginic acid; Derivatives thereof [5]
- 105/06 Pectin; Derivatives thereof [5]
- 105/08 Chitin; Chondroitin sulfate; Hyaluronic acid;
 Derivatives thereof [5]
- 105/10 Heparin; Derivatives thereof [5]

105/12	 Agar-agar; Derivatives thereof [5] 	123/10	 Homopolymers or copolymers of propene [5]
105/14	 Hemicellulose; Derivatives thereof [5] 	123/12	• • • Polypropene [5]
105/16	Cyclodextrin; Derivatives thereof [5]	123/14	• • • Copolymers of propene (C09J 123/16 takes precedence) [5]
Adhesive	s based on rubbers or on their derivatives [5]	123/16	• • Ethene-propene or ethene-propene-diene copolymers [5]
		123/18	 Homopolymers or copolymers of hydrocarbons
107/00	Adhesives based on natural rubber [5]		having four or more carbon atoms [5]
107/02	• Latex [5]	123/20	 having four to nine carbon atoms [5]
109/00	Adhesives based on homopolymers or copolymers of	123/22	• • • Copolymers of isobutene; Butyl rubber [5]
200700	conjugated diene hydrocarbons [5]	123/24	 having ten or more carbon atoms [5]
109/02	Copolymers with acrylonitrile [5]	123/26	 modified by chemical after-treatment [5]
109/04	• • Latex [5]	123/28	 by reaction with halogens or halogen-containing
109/06	Copolymers with styrene [5]		compounds (C09J 123/32 takes precedence) [5]
109/08	• • Latex [5]	123/30	• • by oxidation [5]
109/10	 Latex (C09J 109/04, C09J 109/08 take 	123/32	• • by reaction with phosphorus- or sulfur-containing
	precedence) [5]	122/24	compounds [5]
111/00	Allered as beautiful as a second as a second	123/34 123/36	• • by chlorosulfonation [5]
111/00	Adhesives based on homopolymers or copolymers of chloroprene [5]	123/30	 by reaction with nitrogen-containing compounds, e.g. by nitration [5]
111/02	• Latex [5]	125/00	Adhesives based on homopolymers or copolymers of
113/00	Adhesives based on rubbers containing carboxyl		compounds having one or more unsaturated
	groups [5]		aliphatic radicals, each having only one carbon-to-
113/02	• Latex [5]		carbon double bond, and at least one being terminated by an aromatic carbocyclic ring;
115/00	Adhesives based on rubber derivatives (C09J 111/00,		Adhesives based on derivatives of such polymers [5]
113/00	C09J 113/00 take precedence) [5]	125/02	 Homopolymers or copolymers of hydrocarbons [5]
115/02	Rubber derivatives containing halogen [5]	125/04	 Homopolymers or copolymers of styrene [5]
110, 02	rasser derivatives comming masser [9]	125/06	• • • Polystyrene [5]
117/00	Adhesives based on reclaimed rubber [5]	125/08	• • Copolymers of styrene (C09J 129/08, C09J 135/06, C09J 155/02 take precedence) [5]
119/00	Adhesives based on rubbers, not provided for in	125/10	• • • with conjugated dienes [5]
110/00	groups C09J 107/00-C09J 117/00 [5]	125/12	• • • • with unsaturated nitriles [5]
119/02	• Latex [5]	125/14	• • • • with unsaturated esters [5]
121/00 121/02	Adhesives based on unspecified rubbers [5] • Latex [5]	125/16	 Homopolymers or copolymers of alkyl-substituted styrenes [5]
1217 02	2000. [0]	125/18	 Homopolymers or copolymers of aromatic monomers containing elements other than carbon and
	s based on organic macromolecular compounds		hydrogen [5]
	by reactions only involving carbon-to-carbon	127/00	Adhesives based on homopolymers or copolymers of
unsatura	ted bonds [5]	127700	compounds having one or more unsaturated
	Note(s) [1, 2006.01]		aliphatic radicals, each having only one carbon-to-
	1. In groups C09J 123/00-C09J 149/00, "aliphatic		carbon double bond, and at least one being
	radical" means an acyclic or a non-aromatic		terminated by a halogen; Adhesives based on
	carbocyclic carbon skeleton which is considered	127/02	derivatives of such polymers [5]not modified by chemical after-treatment [5]
	to be terminated by every bond to: a. an element other than carbon;	127/02	 not modified by chemical after-treatment [5] containing chlorine atoms [5]
	b. a carbon atom having a double bond to one	127/04	Homopolymers or copolymers of vinyl
	atom other than carbon;	12//00	chloride [5]
	c. an aromatic carbocyclic ring or a	127/08	Homopolymers or copolymers of vinylidene
	heterocyclic ring.	12//00	chloride [5]
	2. In groups C09J 123/00-C09J 149/00, in the	127/10	 containing bromine or iodine atoms [5]
	absence of an indication to the contrary, a	127/12	 containing fluorine atoms [5]
	copolymer is classified according to the major monomeric component.	127/14	 • • Homopolymers or copolymers of vinyl fluoride [5]
123/00	Adhesives based on homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one	127/16	• • • Homopolymers or copolymers of vinylidene fluoride [5]
	carbon-to-carbon double bond; Adhesives based on derivatives of such polymers [5]	127/18	 • • Homopolymers or copolymers of tetrafluoroethene [5]
123/02	 not modified by chemical after-treatment [5] 	127/20	 Homopolymers or copolymers of
123/04	• • Homopolymers or copolymers of ethene [5]		hexafluoropropene [5]
123/06	• • • Polyethene [5]	127/22	 modified by chemical after-treatment [5]
123/08	• • Copolymers of ethene (C09J 123/16 takes precedence) [5]	127/24	• • halogenated [5]

129/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated	133/20	 Homopolymers or copolymers of acrylonitrile (C09J 155/02 takes precedence) [5]
	aliphatic radicals, each having only one carbon-to- carbon double bond, and at least one being	133/22	Homopolymers or copolymers of nitriles containing four or more carbon atoms [5]
	terminated by an alcohol, ether, aldehydo, ketonic, acetal, or ketal radical; Adhesives based on	133/24	 Homopolymers or copolymers of amides or
	hydrolysed polymers of esters of unsaturated	133/26	imides [5]Homopolymers or copolymers of acrylamide or
	alcohols with saturated carboxylic acids; Adhesives based on derivatives of such polymers [5]	133/20	methacrylamide [5]
129/02	• Homopolymers or copolymers of unsaturated alcohols (C09J 129/14 takes precedence) [5]	135/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated
129/04	Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids [5]		aliphatic radicals, each having only one carbon-to- carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least another carboxyl radical in the molecule, or of
129/06	Copolymers of allyl alcohol [5]		salts, anhydrides, esters, amides, imides or nitriles
129/08	• • • with vinyl aromatic monomers [5]		thereof; Adhesives based on derivatives of such polymers [5]
129/10	Homopolymers or copolymers of unsaturated ethers (C09J 135/08 takes precedence) [5]	135/02	Homopolymers or copolymers of esters (C09J 135/06, C09J 135/08 take precedence) [5]
129/12	 Homopolymers or copolymers of unsaturated ketones [5] 	135/04	Homopolymers or copolymers of nitriles (C09J 135/06, C09J 135/08 take precedence) [5]
129/14	 Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or 	135/06	Copolymers with vinyl aromatic monomers [5]
	ketals or by after-treatment of polymers of unsaturated alcohols [5]	135/08	• Copolymers with vinyl ethers [5]
		137/00	Adhesives based on homopolymers or copolymers of
131/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid, or of a haloformic		compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (based on polymers of cyclic esters of polyfunctional acids C09J 131/00; based on polymers of cyclic
	acid (based on hydrolysed polymers C09J 129/00); Adhesives based on derivatives of such polymers [5]		anhydrides of unsaturated acids C09J 135/00); Adhesives based on derivatives of such polymers [5]
131/02	 Homopolymers or copolymers of esters of 	139/00	Adhesives based on homopolymers or copolymers of
101/04	monocarboxylic acids [5]	139/00	compounds having one or more unsaturated
131/04 131/06	 Homopolymers or copolymers of vinyl acetate [5] Homopolymers or copolymers of esters of		aliphatic radicals, each having only one carbon-to- carbon double bond, and at least one being
131/08	polycarboxylic acids [5]of phthalic acid [5]		terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen; Adhesives
133/00	Adhesives based on homopolymers or copolymers of	120/02	based on derivatives of such polymers [5]
	compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being	139/02 139/04	 Homopolymers or copolymers of vinylamine [5] Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring
	terminated by only one carboxyl radical, or of salts,		member [5]
	anhydrides, esters, amides, imides, or nitriles thereof; Adhesives based on derivatives of such	139/06	 Homopolymers or copolymers of N-vinyl- pyrrolidones [5]
133/02	polymers [5]Homopolymers or copolymers of acids; Metal or	139/08	 Homopolymers or copolymers of vinyl- pyridine [5]
_55, 0 2	ammonium salts thereof [5]	1.41 /00	
133/04	 Homopolymers or copolymers of esters [5] 	141/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated
133/06	 of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as part of the carboxyl radical [5] 		aliphatic radicals, each having only one carbon-to- carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic
133/08	 • Homopolymers or copolymers of acrylic acid esters [5] 		ring containing sulfur; Adhesives based on derivatives of such polymers [5]
133/10	 • Homopolymers or copolymers of methacrylic acid esters [5] 	143/00	Adhesives based on homopolymers or copolymers of
133/12	• • • Homopolymers or copolymers of methyl methacrylate [5]		compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-
133/14	 of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy oxygen [5] 		carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal; Adhesives based on derivatives of such polymers [5]
133/16	 • • Homopolymers or copolymers of esters containing halogen atoms [5] 	143/02	 Homopolymers or copolymers of monomers containing phosphorus [5]
133/18	Homopolymers or copolymers of nitriles [5]	143/04	 Homopolymers or copolymers of monomers containing silicon [5]

145/00	Adhesives based on homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-	<u>obtained</u>	es based on organic macromolecular compounds otherwise than by reactions only involving carbon-to- insaturated bonds [5]
	carbon double bonds in a carbocyclic or in a heterocyclic ring system; Adhesives based on derivatives of such polymers (based on polymers of	159/00	Adhesives based on polyacetals; Adhesives based on derivatives of polyacetals [5]
	cyclic esters of polyfunctional acids C09J 131/00; based on polymers of cyclic anhydrides or imides	159/02	Polyacetals containing polyoxymethylene sequences only [5]
145/02	C09J 135/00) [5] • Coumarone-indene polymers [5]	159/04	Copolyoxymethylenes [5]
147/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more	161/00	Adhesives based on condensation polymers of aldehydes or ketones (with polyalcohols C09J 159/00; with polynitriles C09J 177/00); Adhesives based on derivatives of such polymers [5]
	carbon-to-carbon double bonds; Adhesives based on derivatives of such polymers (C09J 145/00 takes	161/02	 Condensation polymers of aldehydes or ketones only [5]
	precedence; based on conjugated diene rubbers C09J 109/00-C09J 121/00) [5]	161/04	 Condensation polymers of aldehydes or ketones with phenols only [5]
149/00	Adhesives based on homopolymers or copolymers of	161/06	 of aldehydes with phenols [5]
110700	compounds having one or more carbon-to-carbon	161/08	 • with monohydric phenols [5]
	triple bonds; Adhesives based on derivatives of such	161/10	 • • • Phenol-formaldehyde condensates [5]
	polymers [5]	161/12	 • with polyhydric phenols [5]
		161/14	 • • Modified phenol-aldehyde condensates [5]
151/00	Adhesives based on graft polymers in which the	161/16	 of ketones with phenols [5]
	grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (based on ABS polymers C09J 155/02); Adhesives based on derivatives of such polymers [5]	161/18	 Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only [5]
151/02		161/20	 Condensation polymers of aldehydes or ketones with
151/02	• grafted on to polysaccharides [5]		only compounds containing hydrogen attached to
	• grafted on to rubbers [5]		nitrogen (with amino phenols C09J 161/04) [5]
151/06	 grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon- to-carbon double bond [5] 	161/22	of aldehydes with acyclic or carbocyclic compounds [5]
151/08	grafted on to macromolecular compounds obtained	161/24	• • • with urea or thiourea [5]
131/00	otherwise than by reactions only involving carbon-to-	161/26	 of aldehydes with heterocyclic compounds [5]
	carbon unsaturated bonds [5]	161/28	 • • with melamine [5]
151/10	• grafted on to inorganic materials [5]	161/30	 of aldehydes with heterocyclic and acyclic or carbocyclic compounds [5]
153/00	Adhesives based on block copolymers containing at	161/32	 Modified amine-aldehyde condensates [5]
	least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Adhesives based on derivatives of such polymers [5]	161/34	 Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups C09J 161/04, C09J 161/18 and C09J 161/20 [5]
153/02	Vinyl aromatic monomers and conjugated dienes [5]	163/00	Adhesives based on epoxy resins; Adhesives based on derivatives of epoxy resins [5]
155/00	Adhesives based on homopolymers or copolymers,	163/02	Polyglycidyl ethers of bis-phenols [5]
	obtained by polymerisation reactions only involving	163/04	• Epoxynovolacs [5]
	carbon-to-carbon unsaturated bonds, not provided	163/06	Triglycidylisocyanurates [5]
	for in groups C09J 123/00-C09J 153/00 [5]	163/08	• Epoxidised polymerised polyenes [5]
155/02 155/04	ABS [Acrylonitrile-Butadiene-Styrene] polymers [5]Polyadducts obtained by the diene synthesis [5]	163/10	• Epoxy resins modified by unsaturated compounds [5]
			Note(s)
157/00	Adhesives based on unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds [5]		In groups C09J 165/00-C09J 185/00, in the absence of an indication to the contrary, adhesives based on
157/02	Copolymers of mineral oil hydrocarbons [5]		macromolecular compounds obtained by reactions
157/04	• Copolymers in which only the monomer in minority is defined [5]		forming two different linkages in the main chain are classified only according to the linkage present in excess.
157/06	 Homopolymers or copolymers containing elements other than carbon and hydrogen [5] 	165/00	Adhesives based on macromolecular compounds
157/08	 containing halogen atoms [5] 		obtained by reactions forming a carbon-to-carbon
157/10	containing oxygen atoms [5]		link in the main chain (C09J 107/00-C09J 157/00,
157/12	• • containing nitrogen atoms [5]		C09J 161/00 take precedence); Adhesives based on derivatives of such polymers [5]
		165/02 165/04	Polyphenylenes [5]Polyxylylenes [5]

167/00	Adhesives based on polyesters obtained by reactions forming a carboxylic ester link in the main chain	177/04	 Polyamides derived from alpha-amino carboxylic acids (C09J 177/10 takes precedence) [5]
	(based on polyester-amides C09J 177/12; based on polyester-imides C09J 179/08); Adhesives based on derivatives of such polymers [5]	177/06	 Polyamides derived from polyamines and polycarboxylic acids (C09J 177/10 takes precedence) [5]
167/02	 Polyesters derived from dicarboxylic acids and dihydroxy compounds (C09J 167/06 takes 	177/08	 • from polyamines and polymerised unsaturated fatty acids [5]
	precedence) [5]	177/10	 Polyamides derived from aromatically bound amino
167/03	the dicarboxylic acids and dihydroxy compounds having the hydroxy and the carboxyl groups		and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids [5]
167/04	directly linked to aromatic rings [5]	177/12	 Polyester-amides [5]
167/04 167/06	 Polyesters derived from hydroxy carboxylic acids, e.g. lactones (C09J 167/06 takes precedence) [5] Unsaturated polyesters having carbon-to-carbon 	179/00	Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of
167/07	unsaturation [5] • having terminal carbon-to-carbon unsaturated		the macromolecule a linkage containing nitrogen, with or without oxygen, or carbon only, not provided
10//0/	bonds [5]		for in groups C09J 161/00-C09J 177/00 [5]
167/08	 Polyesters modified with higher fatty oils or their 	179/02	• Polyamines [5]
107700	acids, or with natural resins or resin acids [5]	179/04	Polycondensates having nitrogen-containing
169/00	Adhesives based on polycarbonates; Adhesives based		heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors [5]
.=	on derivatives of polycarbonates [5]	179/06	 Polyhydrazides; Polytriazoles; Polyamino- triazoles; Polyoxadiazoles [5]
171/00	Adhesives based on polyethers obtained by reactions forming an ether link in the main chain (based on polyacetals C09J 159/00; based on epoxy resins	179/08	 Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide
	C09J 163/00; based on polythioether-ethers		precursors [5]
	C09J 181/02; based on polyethersulfones C09J 181/06);	181/00	Adhesives based on macromolecular compounds
	Adhesives based on derivatives of such polymers [5]		obtained by reactions forming in the main chain of
171/02	 Polyalkylene oxides [5] 		the macromolecule a linkage containing sulfur, with
171/03	 Polyepihalohydrins [5] 		or without nitrogen, oxygen, or carbon only;
171/08	 Polyethers derived from hydroxy compounds or from their metallic derivatives (C09J 171/02 takes 		Adhesives based on polysulfones; Adhesives based on derivatives of such polymers [5]
	precedence) [5]	181/02	 Polythioethers; Polythioether-ethers [5]
171/10	• • from phenols [5]	181/04	• Polysulfides [5]
171/12	 Polyphenylene oxides [5] 	181/06	 Polysulfones; Polyethersulfones [5]
171/14	 Furfuryl alcohol polymers [5] 	181/08	 Polysulfonates [5]
172 /00	Adhesives based on massemalecular sommounds	181/10	 Polysulfonamides; Polysulfonimides [5]
173/00	Adhesives based on macromolecular compounds obtained by reactions forming a linkage containing	183/00	Adhesives based on macromolecular compounds
	oxygen or oxygen and carbon in the main chain, not	103/00	obtained by reactions forming in the main chain of
	provided for in groups C09J 159/00-C09J 171/00;		the macromolecule a linkage containing silicon, with
173/02	Adhesives based on derivatives of such polymers [5] Polyanhydrides [5]		or without sulfur, nitrogen, oxygen, or carbon only; Adhesives based on derivatives of such polymers [5]
4== 100		183/02	• Polysilicates [5]
175/00	Adhesives based on polyureas or polyurethanes; Adhesives based on derivatives of such polymers [5]	183/04	 Polysiloxanes [5]
175 /00		183/05	 containing silicon bound to hydrogen [5]
175/02	Polyureas [5] Polyurethones [5]	183/06	 containing silicon bound to oxygen-containing
175/04	• Polyurethanes [5]		groups (C09J 183/12 takes precedence) [5]
175/06	• • from polyesters [5]	183/07	 containing silicon bound to unsaturated aliphatic
175/08	• • from polyethers [5]		groups [5]
175/10	• • from polyacetals [5]	183/08	containing silicon bound to organic groups
175/12	 from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group [5] 	102/10	containing atoms other than carbon, hydrogen, and oxygen [5]
175/14	Polyurethanes having carbon-to-carbon unsaturated bonds [5]	183/10	 Block or graft copolymers containing polysiloxane sequences (obtained by polymerising a compound having a carbon-to-carbon double bond on to a
175/16	• • having terminal carbon-to-carbon unsaturated bonds [5]	183/12	polysiloxane C09J 151/08, C09J 153/00) [5] • containing polyether sequences [5]
	• •	183/14	• in which at least two but not all the silicon atoms are
177/00	Adhesives based on polyamides obtained by reactions forming a carboxylic amide link in the	100/14	connected by linkages other than oxygen atoms (C09J 183/10 takes precedence) [5]
	main chain (based on polyhydrazides C09J 179/06;	183/16	 in which all the silicon atoms are connected by
	based on polyamide-imides C09J 179/08); Adhesives	105/10	linkages other than oxygen atoms [5]
.==	based on derivatives of such polymers [5]		. O
177/02	Polyamides derived from omega-amino carboxylic acids or from lactams thereof (C09J 177/10 takes precedence) [5]		

precedence) [5]

185/00	Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon;	193/00	Adhesives based on natural resins; Adhesives based on derivatives thereof (based on polysaccharides C09J 101/00-C09J 105/00; based on natural rubber C09J 107/00) [5]
	Adhesives based on derivatives of such polymers [5]	193/02	Shellac [5]
185/02	 containing phosphorus [5] 	193/04	• Rosin [5]
185/04	 containing boron [5] 		
187/00	Adhesives based on unspecified macromolecular compounds, obtained otherwise than by	195/00	Adhesives based on bituminous materials, e.g. asphalt, tar or pitch [5]
	polymerisation reactions only involving unsaturated carbon-to-carbon-bonds [5]	197/00	Adhesives based on lignin-containing materials (based on polysaccharides C09J 101/00-C09J 105/00) [5]
	s based on natural macromolecular compounds or on es thereof [5]	197/02	 Lignocellulosic material, e.g. wood, straw or bagasse [5]
		199/00	Adhesives based on natural macromolecular
189/00	Adhesives based on proteins; Adhesives based on derivatives thereof [5]		compounds or on derivatives thereof, not provided for in groups C09J 101/00-C09J 107/00 or
189/02	 Casein-aldehyde condensates [5] 		C09J 189/00-C09J 197/00 [5]
189/04	 Products derived from waste materials, e.g. horn, hoof or hair [5] 		
189/06	• • derived from leather or skin [5]	201/00	Adhesives based on unspecified macromolecular
191/00	Adhesives based on oils, fats or waxes; Adhesives		compounds [5]
	based on derivatives thereof [5]	201/02	 characterised by the presence of specified groups [5]
191/02	 Vulcanised oils, e.g. factice [5] 	201/04	 containing halogen atoms [5]
191/04	• Linoxyn [5]	201/06	 containing oxygen atoms [5]
191/06	• Waxes [5]	201/08	 Carboxyl groups [5]
191/08	• • Mineral waxes [5]	201/10	• • containing hydrolysable silane groups [5]

C09K MATERIALS FOR APPLICATIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR

Note(s)

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

3/00	Materials not provided for elsewhere [2]	5/06	• • the change of state being from liquid to solid or
3/10	 for sealing or packing joints or covers 		vice-versa [2]
3/12	 for stopping leaks, e.g. in radiators or in tanks 	5/08	 Materials not undergoing a change of physical state
3/14	 Anti-slip materials; Abrasives [4] 		when used (C09K 5/16, C09K 5/20 take
3/16	Anti-static materials [4]		precedence) [7]
3/18	 for application to surface to minimize adherence of 	5/10	 Liquid materials [7]
	ice, mist or water thereto; Thawing or antifreeze materials for application to surfaces [4]	5/12	 • Molten materials, i.e. materials solid at room temperature, e.g. metals or salts [7]
3/20	as substitutes for glycerol in its non-chemical uses,	5/14	 Solid materials, e.g. powdery or granular [7]
5, 2 5	e.g. as a base in toilet creams or ointments	5/16	 Materials undergoing chemical reactions when
3/22	 for dust-laying or dust-absorbing [4] 		used [7]
3/24	 for simulating ice or snow [4] 	5/18	 Non-reversible chemical reactions [7]
3/30	• for aerosols [4]	5/20	 Antifreeze additives therefor, e.g. for radiator
3/32	for treating liquid pollutants, e.g. oil, gasoline or fat		liquids [7]
	(processes for making harmful chemical substances harmless or less harmful, by effecting a chemical change in the substances A62D 3/00)	8/00	Compositions for drilling of boreholes or wells; Compositions for treating boreholes or wells, e.g. for completion or for remedial operations [2006.01]
= /00		8/02	 Well-drilling compositions [2006.01]
5/00	Heat-transfer, heat-exchange or heat-storage	0/02	wen-drining compositions [2000.01]
	materials, e.g. refrigerants; Materials for the production of heat or cold by chemical reactions		Note(s) [2006.01]
	other than by combustion [2]		In groups C09K 8/03-C09K 8/38, in the absence of an
5/02	Materials undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take precedence) [2]		indication to the contrary, classification is made in the last appropriate place.
5/04	the change of state being from liquid to vapour or vice-versa [2]	8/03	 Specific additives for general use in well-drilling compositions [2006.01]

8/035	• • • Organic additives [2006.01]		form or by the form of their
8/04	• • Aqueous well-drilling compositions [2006.01]		apsulated material [2006.01]
8/05	• • containing inorganic compounds only, e.g.	8/518 • • • Foams [2006.01]	
0./06	mixtures of clay and salt [2006.01]	 8/52 • Compositions for prever depositions, e.g. for clear 	nting, limiting or eliminating
8/06	 Clay-free compositions (containing inorganic compounds only C09K 8/05) [2006.01] 	8/524 • • organic depositions, e	e.g. paraffins or
8/08	• • • containing natural organic compounds, e.g. polysaccharides, or derivatives	asphaltenes [2006.01] 8/528 • • inorganic depositions	, e.g. sulfates or
0.440	thereof [2006.01]	carbonates [2006.01]	
8/10	• • • • Cellulose or derivatives thereof [2006.01]	8/532 • • • Sulfur [2006.01]	. fa a h tha fa af thair.
8/12	 containing synthetic organic macromolecular compounds or their precursors [2006.01] 		form or by the form of their apsulated material [2006.01]
8/14	Clay-containing compositions (containing)	8/54 • Compositions for <u>in situ</u>	
9, 2,	inorganic compounds only	boreholes or wells [2006	
	C09K 8/05) [2006.01]		lidating loose sand or the like
8/16	 • • • characterised by the inorganic compounds other than clay [2006.01] 	around wells without ex permeability thereof [20]	
8/18	• • • characterised by the organic	8/565 • Oil-based composition	
0/10	compounds [2006.01]	8/57 • Compositions based of	
8/20	• • • • Natural organic compounds or derivatives	(C09K 8/565 takes pi	
	thereof, e.g. polysaccharides or lignin	8/575 • • • containing organic	compounds [2006.01]
0./22	derivatives [2006.01]	8/58 • Compositions for enhance	
8/22	 • • • • Synthetic organic compounds [2006.01] • • • • Polymers [2006.01] 	obtaining hydrocarbons,	
8/24 8/26	• • • Oil-in-water emulsions [2006.01]	8/582 • characterised by the u	displacing fluids [2006.01]
8/28	• • • containing organic additives [2006.01]	8/584 • characterised by the t	
8/32	Non-aqueous well-drilling compositions, e.g. oil-	surfactants [2006.01]	
	based [2006.01]	8/588 • • characterised by the u	
8/34	• • • Organic liquids [2006.01]	polymers [2006.01]	
8/36	• • • Water-in-oil emulsions [2006.01]		combination with generated
8/38	 Gaseous or foamed well-drilling compositions [2006.01] 		combination with injected
8/40	Spacer compositions, e.g. compositions used to		es precedence) [2006.01]
	separate well-drilling from cementing masses [2006.01]	 8/60 • Compositions for stimul the underground formati 	ating production by acting on [2006.01]
8/42	Compositions for cementing, e.g. for cementing	8/62 • Compositions for form	
07 12	casings into boreholes; Compositions for plugging,	fractures [2006.01]	J
	e.g. for killing wells (compositions for plastering	8/64 • • Oil-based composi	
0./44	borehole walls C09K 8/50) [2006.01]		ed on water or polar solvents
8/44	• containing organic binders only [2006.01]		precedence) [2006.01]
8/46	 containing inorganic binders, e.g. Portland cement [2006.01] 	9 9	nic compounds [2006.01] neir form or by the form of
8/467	• • containing additives for specific		e.g. foams [2006.01]
	purposes [2006.01]	8/72 • • • Eroding chemicals	
8/473	• • • Density reducing additives, e.g. for		additives added for specific
	obtaining foamed cement	purposes [2006	
0 / 40	compositions [2006.01] • • • • Density increasing or weighting	8/76 • • • • for preventing	
8/48	• • • Density increasing or weighting additives [2006.01]	loss [2006.0]	
8/487	• • • Fluid loss control additives; Additives for	8/78 • • • • • for preventing 8/80 • • Compositions for reing	-
	reducing or preventing circulation loss [2006.01]	•	pants used to keep the
8/493	• • • Additives for reducing or preventing gas	8/82 • Oil-based compositio	
	migration [2006.01]	precedence) [2006.01	
8/50	Compositions for plastering borehole walls, i.e.	8/84 • • Compositions based of	on water or polar solvents
	compositions for temporary consolidation of borehole walls [2006.01]	(C09K 8/66, C09K 8/	
8/502	 Oil-based compositions [2006.01] 	precedence) [2006.01	
	 Compositions based on water or polar solvents 	8/86 • • • containing organic 8/88 • • • macromolecula	r compounds [2006.01]
	(C09K 8/502 takes precedence) [2006.01]		igin, e.g. polysaccharides,
		cellulose [20	
	• • containing organic compounds [2006.01]	centarooc [=0	
8/508	• • • macromolecular compounds [2006.01]	8/92 • • characterised by their	form or by the form of their
8/508 8/512	• • • macromolecular compounds [2006.01]• • • containing cross-linking agents [2006.01]	8/92 • characterised by their components, e.g. ence	apsulated material
8/508 8/512	 • • • macromolecular compounds [2006.01] • • • containing cross-linking agents [2006.01] • • • of natural origin, e.g. polysaccharides, 	8/92 • characterised by their components, e.g. enc. (C09K 8/70 takes pre	apsulated material
8/508 8/512	• • • macromolecular compounds [2006.01]• • • containing cross-linking agents [2006.01]	8/92 • characterised by their components, e.g. ence	apsulated material

9/00	Tenebrescent materials, i.e. materials for which the range of wavelengths for energy adsorption is changed as a result of excitation by some form of energy [2]	11/88 11/89	 containing selenium, tellurium or unspecified chalcogen elements [4] containing mercury [4]
9/02	Organic tenebrescent materials [2]	13/00	Etching, surface-brightening or pickling compositions [2]
11/00	Luminescent, e.g. electroluminescent, chemiluminescent, materials [2]		Note(s)
11/01	• Recovery of luminescent materials [3]		In groups C09K 13/02-C09K 13/12, a composition is
11/02	Use of particular materials as binders, particle		classified in the last appropriate place.
	coatings or suspension media therefor [2]	13/02	 containing an alkali metal hydroxide [2]
11/04	 containing natural or artificial radioactive elements or 	13/04	 containing an inorganic acid [2]
	unspecified radioactive elements [2]	13/06	 with organic material [2]
11/06	 containing organic luminescent materials [2] 	13/08	 containing a fluorine compound [2]
11/07	having chemically-interreactive components, e.g.	13/10	 containing a boron compound [2]
11 /00	reactive chemiluminescent compositions [3]	13/12	• containing heavy metal salts in an amount of at least
11/08	 containing inorganic luminescent materials [2] 		50% of the non-solvent components [2]
	Note(s)	15/00	Anti-oxidant compositions; Compositions inhibiting
	In groups C09K 11/54-C09K 11/89, in the absence of an		chemical change [4]
	indication to the contrary, materials are classified in the last appropriate place; however, activating constituents		Note(s)
	of the luminescent materials are disregarded for		1. In groups C09K 15/02-C09K 15/34, in the
	classification purposes.		absence of an indication to the contrary, a
11/54	containing zinc or cadmium [4]		composition is classified in the last appropriate
11/55	• containing beryllium, magnesium, alkali metals or		place. 2. In groups C09K 15/02-C09K 15/34, a metal salt
11/56	alkaline earth metals [4] • containing sulfur [4]		of an organic compound is classified as that
11/57	containing sulfur [4]containing manganese or rhenium [4]		compound.
11/58	 containing manganese of memant [4] containing copper, silver or gold [4] 	15/02	 containing inorganic compounds [2]
11/59	• containing silicon [4]	15/04	 containing organic compounds [2]
11/60	containing iron, cobalt or nickel [4]	15/06	containing oxygen [2]
11/61	containing fluorine, chlorine, bromine, iodine or	15/08	• • • containing a phenol or quinone moiety [2]
	unspecified halogen elements [4]	15/10	• • containing sulfur [2]
11/62	 containing gallium, indium or thallium [4] 	15/12 15/14	containing sulfur and oxygen [2]containing a phenol or quinone moiety [2]
11/63	• • containing boron [4]	15/14	containing a phenor or quinone molety [2] containing nitrogen [2]
11/64	• • containing aluminium [4]	15/18	• • containing an amine or imine moiety [2]
11/65	• containing carbon [4]	15/20	containing an armine or mine morety [2] containing nitrogen and oxygen [2]
11/66	• containing germanium, tin or lead [4]	15/22	• • • containing an amide or imide moiety [2]
11/67 11/68	containing refractory metals [4]containing chromium, molybdenum or	15/24	• • • containing a phenol or quinone moiety [2]
11/00	tungsten [4]	15/26	 containing nitrogen and sulfur [2]
11/69	• • containing vanadium [4]	15/28	 containing nitrogen, oxygen and sulfur [2]
11/70	• • containing phosphorus [4]	15/30	 containing heterocyclic ring with at least one
11/71	also containing alkaline earth metals [4]		nitrogen atom as ring member [2]
11/72	• • also containing halogen, e.g.	15/32	• • containing boron, silicon, phosphorus, selenium,
	halophosphates [4]	15/34	tellurium or a metal [2]containing plant or animal materials of unknown
11/73	• • • also containing alkaline earth metals [4]	13/34	composition [2]
11/74	• containing arsenic, antimony or bismuth [4]		
11/75	• • containing antimony [4]	17/00	Soil-conditioning materials or soil-stabilising
11/76	 • • • also containing phosphorus and halogen, e.g. halophosphates [4] 		materials [3]
11/77	containing rare earth metals [4]		Note(s)
11/78	• • containing oxygen [4]		1. This group <u>covers</u> mixtures of soil-conditioning or
11/79	• • containing silicon [4]		soil-stabilising materials with fertilisers
11/80	• • containing aluminium or gallium [4]		characterised by their soil-conditioning or soil-
11/81	• • containing phosphorus [4]		stabilising activity. 2. This group <u>does not cover</u> mixtures of soil-
11/82	containing vanadium [4]		conditioning or soil-stabilising materials with
11/83	• • containing vanadium and phosphorus [4]		fertilisers characterised by their fertilising activity
11/84	• • containing sulfur, e.g. oxysulfides [4]		which are covered by subclass C05G.
11/85	• • containing halogen [4]		3. For the purpose of classification in this group, the
11/86	• • containing oxygen and halogen, e.g.		presence of fertilisers in the composition is not taken into account.
11/87	oxyhalides [4] • containing platinum group metals [4]		4. In groups C09K 17/02-C09K 17/40, in the
11/0/	containing platinum group metals [4]		absence of an indication to the contrary, materials are classified in the last appropriate place.

	5. In this group, it is desirable to add the indexing	19/24	• • • • linked by a chain containing nitrogen-to-
17/02	codes of groups C09K 101/00-C09K 109/00. • containing inorganic compounds only [6]	19/26	nitrogen bonds [4] • • • • • Azoxy compounds [4]
17/02	applied in a physical form other than a solution or	19/28	• • • • • linked by a chain containing carbon and
17/04	a grout, e.g. as granules or gases [6] • Calcium compounds, e.g. lime [6]	13/20	sulfur atoms as chain links, e.g. thioesters [4]
17/08	Aluminium compounds, e.g. aluminium	19/30	• • • containing saturated or unsaturated non-
	hydroxide [6]	19/32	aromatic rings, e.g. cyclohexane rings [4] • • containing condensed ring systems, i.e. fused,
17/10	• Cements, e.g. Portland cement [6]	13/32	bridged or spiro ring systems [4]
17/12 17/14	 Water-soluble silicates, e.g. waterglass [6] containing organic compounds only [6]	19/34	 containing at least one heterocyclic ring [4]
17/14	applied in a physical form other than a solution or	19/36	Steroidal liquid crystal compounds [4]
1//10	a grout, e.g. as platelets or granules [6]	19/38	• • Polymers, e.g. polyamides [4]
17/18	Prepolymers; Macromolecular compounds [6]	19/40	 containing elements other than carbon, hydrogen,
17/20	• • Vinyl polymers [6]		halogen, oxygen, nitrogen or sulfur, e.g. silicon, metals [4]
17/22	• • • Polyacrylates; Polymethacrylates [6]	19/42	Mixtures of liquid crystal compounds covered by
17/24	• • • Condensation polymers of aldehydes or ketones [6]	13/42	two or more of the preceding groups C09K 19/06-C09K 19/40 [4]
17/26	• • • Phenol-aldehyde condensation polymers [6]		
17/28	• • • Urea-aldehyde condensation polymers [6]		Note(s)
17/30	• • • Polyisocyanates; Polyurethanes [6]		1. This group does not cover mixtures containing
17/32	• • • of natural origin, e.g. cellulosic materials [6]		two or more liquid crystal compounds covered
17/34	• • Bituminous materials [6]		individually by the same one of groups
17/36	Compounds having one or more carbon-to-silicon linkages [6]		C09K 19/04-C09K 19/40 which are classified only in that group.
17/38	linkages [6] • • Siloxanes [6]		2. If liquid crystal components of the mixtures
17/30	containing mixtures of inorganic and organic		classified in this group are of interest as such, they
17/40	compounds [6]		are also classified according to the compounds in groups C09K 19/04-C09K 19/40.
1//42	 Inorganic compounds mixed with organic active ingredients, e.g. accelerators [6] 	19/44	 containing compounds with benzene rings
17/44	• • • the inorganic compound being cement [6]		directly linked [4]
17/46	• • • the inorganic compound being a water-soluble	19/46	• • containing esters [4]
	silicate [6]	19/48	 containing Schiff bases [4]
17/48	Organic compounds mixed with inorganic active ingredients, e.g. polymerisation catalysts [6]	19/50	 containing steroidal liquid crystal compounds [4]
17/50	• • • the organic compound being of natural origin, e.g. cellulose derivatives [6]	19/52	 characterised by components which are not liquid crystals, e.g. additives [4]
17/52	• Mulches [6]	19/54	 Additives having no specific mesophase [4]
17752	Muches [0]	19/56	Aligning agents [4]
19/00	Liquid crystal materials [4]	19/58	 Dopants or charge transfer agents [4]
	Note(s)	19/60	• • Pleochroic dyes [4]
	•	21/00	Fireproofing materials [4]
	In groups C09K 19/02-C09K 19/52 in the absence of an indication to the contrary, materials are classified in the	21/00	Fireproofing materials [4]
	last appropriate place.		Note(s)
19/02	 characterised by optical, electrical or physical 		In groups C09K 21/02-C09K 21/14, in the absence of
	properties of the components, in general [4]		an indication to the contrary, materials are classified in
19/04	 characterised by the chemical structure of the liquid 		the last appropriate place.
	crystal components [4]	21/02	 Inorganic materials [4]
19/06	 Non-steroidal liquid crystal compounds [4] 	21/04	containing phosphorus [4]
19/08	• • • containing at least two non-condensed rings [4]	21/06	Organic materials [4]
19/10	 containing at least two benzene rings [4] 	21/08	containing halogen [4]
19/12	• • • • at least two benzene rings directly linked,	21/10	containing nitrogen [4]
	e.g. biphenyls [4]	21/12	containing phosphorus [4]
19/14	• • • • linked by a carbon chain [4]	21/14	 Macromolecular materials [4]
19/16	• • • • • • the chain containing carbon-to-carbon double bonds, e.g. stilbenes [4]	т. з.	
19/18	• • • • • • the chain containing carbon-to-carbon triple bonds, e.g. tolans [4]	the use o	scheme associated with group C09K 17/00, relating to r the intended effect of the soil-conditioning or soil-
19/20	• • • • • linked by a chain containing carbon and oxygen atoms as chain links, e.g.	<u>stabilisin</u> 101/00	g materials. [6] Agricultural use [6]
19/22	esters [4] • • • • linked by a chain containing carbon and	103/00	Civil engineering use [6]
	nitrogen atoms as chain links, e.g. Schiff bases [4]	105/00	Erosion prevention [6]

107/00 Impermeabilisation [6]

109/00 pH regulation [6]