SECTION C — CHEMISTRY; METALLURGY

- C09 DYES; PAINTS; POLISHES; NATURAL RESINS; ADHESIVES; COMPOSITIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR
- C09B ORGANIC DYES OR CLOSELY-RELATED COMPOUNDS FOR PRODUCING DYES; MORDANTS; LAKES (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	
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	15/00-21/00
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	61/00
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
- 1/14 • Dyes containing ether groups
- 1/16 Amino anthraquinones

Anthracene dyes

1/18 • • Preparation by synthesis of the nucleus

- 1/20 Preparation from starting materials already containing the anthracene nucleus
- 1/22 • Dyes with unsubstituted amino groups
- 1/24 • sulfonated
- 1/26 • Dyes with amino groups substituted by hydrocarbon radicals
- 1/28 • substituted by alkyl, aralkyl, or cyclo-alkyl groups
- 1/30 • • sulfonated
- 1/32 • substituted by aryl groups (anthrimides C09B 1/48)
- 1/34 • • sulfonated
- 1/36 • Dyes with acylated amino groups
- 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	5/01	containing the anthanthrone nucleus
4 / 450	rings [3]	3/66	 • • by halogenation
1/473	• • • the acyl groups being residues of a sulfonic	3/68	• • Amino derivatives
1 / 40	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 thereof 	3/74	 Preparation from starting materials already
1 / 502			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
	C09B 1/515) [2]		condensed with one or more carbocyclic rings
1/515	N-alkyl, N-aralkyl, or N-cycloalkyl	3/80	 Preparation by synthesis of the nucleus
4 (546	derivatives [2]	3/82	 Preparation from starting materials already
1/516	• • • N-acylated derivatives [2]		containing the condensed anthracene nucleus
1/52	• • sulfonated		-
1/54	• • etherified	5/00	Dyes with an anthracene nucleus condensed with one
1/56	Mercapto-anthraquinones		or more heterocyclic rings with or without
1/58	 with mercapto groups substituted by aliphatic, 		carbocyclic rings
	cycloaliphatic, araliphatic or aryl radicals [3]	5/02	• the heterocyclic ring being condensed in peri position
1/60	 • substituted by aliphatic, cycloaliphatic or 	5/04	 Pyrazolanthrones
	araliphatic radicals [3]	5/06	 Benzanthronyl-pyrazolanthrone condensation
1/62	 with mercapto groups substituted by a heterocyclic 		products
	ring [3]	5/08	 • • Dipyrazolanthrones
2/00	Describeration of the second of the second	5/10	 Isothiazolanthrones; Isoxazolanthrones;
3/00	Dyes with anthracene nucleus condensed with one or	5/10	 Isothiazolanthrones; Isoxazolanthrones; Isoselenazolanthrones
	more carbocyclic rings	5/10 5/12	Isoselenazolanthrones • • Thiophenanthrones
3/02	more carbocyclic ringsBenzanthrones		Isoselenazolanthrones
3/02 3/04	more carbocyclic ringsBenzanthronesPreparation by synthesis of the nucleus	5/12	Isoselenazolanthrones • • Thiophenanthrones
3/02	 more carbocyclic rings Benzanthrones Preparation by synthesis of the nucleus Preparation from starting materials already 	5/12 5/14	IsoselenazolanthronesThiophenanthronesBenz-azabenzanthrones (anthrapyridones)
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	 Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones
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	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives
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	Isoselenazolanthrones Thiophenanthrones Benz-azabenzanthrones (anthrapyridones) Benz-diazabenzanthrones, e.g. anthrapyrimidones Coeroxene; Coerthiene; Coeramidene; Derivatives thereof
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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 Dibenzanthronyls Perylene derivatives 	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
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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	 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 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 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 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 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 halogenation 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	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) 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 etherification of hydroxy compounds by etherification of hydroxarbon 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 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 Amino acridones 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
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 3/40 3/42	 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 Pyranthrones Preparation by synthesis of the 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	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 Amino acridones 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-
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 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 5/28 5/30 5/32 5/34 5/36 5/38 5/40 5/42 5/44 5/46 5/48 5/50 5/52	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 Amino acridones 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
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 3/40 3/42 3/44	 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 hydroxarbon or acyl residues into amino groups Pyranthrones 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 Anthracene series Anthracene series Anthracene series Anthracene acridones or thioxanthones Compounds containing acridone and carbazole rings Condensation products of benzanthronyl-amino anthraquinones Pyridino anthracene series Para-diazines Para-diazines Preparation by alkaline melting of 2-amino anthraquinones Preparation by condensation of 1.2-halogeno-amino anthraquinones Preparation from 2-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 3/30 3/32 3/34 3/36 3/38 3/40 3/42	 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 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 5/28 5/30 5/32 5/34 5/36 5/38 5/40 5/42 5/44 5/46 5/48 5/50 5/52	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 Amino acridones 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	Quinoline	or polymethine dyes
	already containing the indanthrene	22 /00	Madeline and additional annual and an
	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]
		23/06	• • • three CH groups, e.g. carbocyanines [3]
6/00	Anthracene dyes not provided for above [2]	23/08	• • • more than three CH groups, e.g. 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 	23/14	 the polymethine chain containing hetero atoms
7/08	Other indole-indigos	23/10	the polymethine chain containing netero atoms
7/10	Bis-thionaphthene indigos	25/00	Quinophthalones
7/12	Other thionaphthene indigos		
9/00	Esters or ester-salts of leuco compounds of vat dyestuffs	26/00	Hydrazone dyes; Triazene dyes [3]
9/02	of anthracene dyes	26/02	Hydrazone dyes (hydrazone-azo dyes
9/04	of indigoid dyes		C09B 56/18) [3]
11/00	Discharge Lorden Lorden Lor	26/04	• • cationic [3]
11/00	Diaryl- or triarylmethane dyes	26/06	• Triazene dyes (triazene-azo dyes C09B 56/20) [3]
11/02	derived from diarylmethanes		
11/04	derived from triarylmethanes		
11/06	Hydroxy derivatives of triarylmethanes in which at least one —OH group is bound to an aryl	Azo dyes	Note(s)
11 /00	nucleus		In groups C09B 27/00-C09B 46/00, arrows in the
11/08	• • Phthaleins		formulae of the various types of azo dyes indicate
11/10	Amino derivatives of triarylmethanes		which part of an azo dye, prepared by diazotising and
11/12	• • • without any —OH group bound to an aryl nucleus		coupling, is derived from the diazo component and which part is derived from the coupling component. The
11/14	 Preparation from aromatic aldehydes, 		arrow is pointing to the part derived from the coupling
	aromatic carboxylic acids or derivatives thereof, and aromatic amines		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	 Phthaleins containing amino groups 	29/03	• • from diazotised o-amino carboxylic acids or o-
11/26	 Triarylmethane dyes in which at least one of the 		amino-sulfonic acids [3]
11/28	aromatic nuclei is heterocyclic • Pyronines	29/033	 from diazotised amines containing a heterocyclic ring [3]
13/00	Oxyketone dyes	29/036	• • • the heterocyclic ring containing only nitrogen
13/02	• of the naphthalene series, e.g. naphthazarin	20/020	as hetero atoms [3]
13/04	• of the pyrene series	29/039	 the heterocyclic ring containing nitrogen and sulfur as hetero atoms [3]
13/04	 of the acetophenone series 	29/042	• • • the hetero ring being a thiazole ring [3]
	•		• • • • Benzothiazoles [3]
			• • • the hetero ring being a thiadiazole ring [3]
Acridine,	azine, oxazine, or thiazine dyes	29/06	• from coupling components containing amino as the
15/00	Acridine dyes		only directing group
	•	29/08	Amino benzenes
17/00	Azine dyes	29/085	 coupled with diazotised anilines [3]
17/02	 of the benzene series 	29/09	 coupled with diazotised amines containing
17/04	of the naphthalene series		heterocyclic rings [3]
17/06	Fluorindine or its derivatives	29/095	• • Amino naphthalenes [3]
		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
04 /00	mile to a local	29/14	• • • Hydroxy carboxylic acids
21/00	Thiazine dyes	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
29/26 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, —		$A \rightarrow K \subset B$
	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]	00,0.0	. B
35/03		• • in which the coupling component is a heterocyclic compound [3]	DE (DEO	A←T Ç
35/031	•	• • containing a six-membered ring with one nitrogen atom as the only ring hetero	35/378	• Trisazo dyes of the type ∠ K ← A D ✓
		atom [3]	35/38	Trisazo dyes ot the types K ₁
35/033	•	in which the coupling component is an arylamide of an o-hydroxy carboxylic acid or of a beta late carboxylic acid [2].	35/40	the component K being a dihydroxy or polyhydroxy compound
25 /025		a beta-keto-carboxylic acid [3]in which the coupling component contains an	35/42	 the component K being a diamine or polyamine
33/033	•	activated methylene group [3]	35/44	the component K being a hydroxy amine
35/037		 characterised by two coupling components of 	35/46	• • • the component K being an amino naphthol
337 337		different types [3]	35/48	 the component K being heterocyclic
35/039	•	 characterised by the tetrazo component [3] 	35/50	Tetrazo dyes
35/04		the tetrazo component being a benzene		$ \begin{array}{ccc} & K \leftarrow A \\ & K_1 \leftarrow B [3] \end{array} $ • of the type
		derivative [3]		D
35/06	•	 the tetrazo component being a naphthalene derivative [3] 	35/52	• • of the type $K_1 \leftarrow B$ [3] $K \leftarrow A$
35/08		 the tetrazo component being a derivative of 		
557 00		biphenyl [3]	35/54	• • of the type $B \rightarrow K_1$ [3]
35/10	•	• • from two coupling components of the same	55/54	A → C
		type [3]		D. The second se
35/12	•	• • • from amines [3]	35/56	• • of the type B → E [3]
35/14		• • • • from hydroxy compounds [3]		K
35/16	•	• • • from hydroxy amines [3]		D.
35/18	•	• • • from heterocyclic compounds [3]	35/58	• • of the type $\rightarrow B \rightarrow K_1 \leftarrow A$ [3]
35/20	•	 from two coupling compounds of different types [3] 	55750	of the type $D \to B$
35/205		 the tetrazo component being a derivative of a 		K
357205		diaryl- or triaryl-alkane or -alkene [3]	35/60	• • of the type $D_1 \rightarrow C$ [3]
35/21		• • of diarylmethane or triarylmethane [3]		$D \to C$
35/215		of diarylethane or diarylethene [3]		K. D.
35/22		 the tetrazo component being a derivative of a 	35/62 35/64	 • of the type B ← A [3] • Higher polyazo dyes, e.g. of the types
25/227		diaryl ether [3]	337 0 1	Λ Λ←R
35/227	•	 the tetrazo component being a derivative of a diaryl sulfide or diaryl polysulfide [3] 		,K←A Dı Dı
35/233	•	 the tetrazo component being a derivative of a diaryl ketone or benzil [3] 		D B Kı←B or Kı
35/24		 the tetrazo component being a derivative of a 		ν του Γου Ευσώ (C. 1971)
		diaryl amine [3]		`C [*] K ₂ ←C [*] K ₂ ←C [3]
35/26	•	• • the tetrazo component being a derivative of a	37/00	Azo dyes prepared by coupling the diazotised amine
25 /20		diaryl urea [3]		with itself
35/28	•	 the tetrazo component containing two aryl nuclei linked by at least one of the groups — 	20/00	Other and described the discretision and combine
		CON \langle , —SO ₂ N \langle , —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]	42 /00	Paragraph of the formula and the same of
35/34	•	 the tetrazo component being heterocyclic [3] 	43/00	Preparation of azo dyes from other azo compounds
35/35	•	Trisazo dyes in which the tetrazo component is a	43/02	by sulfonation
		diamino-azo-aryl compound [3]	43/04	• by nitration
		$A \rightarrow B$	43/06	by oxidation by reduction (deamination COOP 42/44)
25 /26		> _	43/08	by reduction (deamination C09B 43/44) deamination of a graph of a g
35/36		Trisazo dyes of the type	43/10	with formation of a new azo or an azoxy bridge by introducing by drocarbon radicals or substituted
		• D is benzene [3]	43/11	 by introducing hydrocarbon radicals or substituted hydrocarbon radicals on primary or secondary amino
35/364		D is naphthalene [3]		groups (formation of an amino group by reduction,
35/366		D is diphenyl [3] D is a diamylether a diamyleulfide or a		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
35/27		• D is a diarylamine [3]	43/124	
35/37 35/372		• D is a diarylurea [3]		halides, monoisocyanates, or haloformic acid
2/3/2	-	D to a diarythrea [5]		esters [3]
			43/128	• • • Aliphatic, cycloaliphatic or araliphatic acids [3]

43/132		
	• • having the carboxyl group directly attached to	45/12 • • • other metal compounds
40 / 40 0	an aromatic carbocyclic ring [3]	45/14 • • Monoazo compounds
43/136	1 0 0 0	45/16 • • containing chromium
43/14	• • • with phosgene or thiophosgene [3]	45/18 • • • containing copper
43/145	• • • with polycarboxylic acids [3]	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	45/30 • • • containing cobalt
	residues [3]	45/32 • • • containing other metals
43/18	 by acylation of hydroxy groups 	45/34 • Preparation from o-monohydroxy azo compounds
43/20	with monocarboxylic acids, carbamic acid esters or halides, monoisocyanates or haloformic acid	having in the o1-position an atom or functional group other than hydroxy, alkoxy, carboxyl, amino, or keto
42 /22	esters [3]	groups
43/22	• • having the carboxyl group directly attached to	45/36 • • by oxidation of hydrogen in o1-position
40.40.4	an aromatic carbocyclic ring [3]	45/38 • Preparation from compounds with —OH and —
43/24	 with formation of —O—SO₂—R or —O—SO₃H radicals [3] 	COOH adjacent in the same ring or in peri position 45/40 • Chromium compounds
43/26	 with polyfunctional acylating agents [3] 	45/42 • • Copper compounds
43/28	 by etherification of hydroxy groups [3] 	45/44 • • Cobalt compounds
43/30	 by esterification of —COOH or —SO₃H groups [3] 	45/46 • • Other metal compounds
43/32	 by reacting carboxyl or sulfonic groups, or 	45/48 • Preparation from other complex metal compounds of
	derivatives thereof, with amines; by reacting keto groups with amines [3]	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; Azaporphines47/04 • Phthalocyanines [3]
43/42	 • by substituting radicals containing hetero atoms for —CN radicals [3] 	• • 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]	
44/00		-
44/00	Azo dyes containing onium groups [3]	47/08 • • Preparation from other phthalocyanine
44/00 44/02	Azo dyes containing onium groups [3]containing ammonium groups not directly attached to	 47/08 Preparation from other phthalocyanine compounds [3] 47/10 Obtaining compounds having halogen atoms directly bound to the phthalocyanine
44/02	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] 	 47/08 Preparation from other phthalocyanine compounds [3] 47/10 Obtaining compounds having halogen atoms
44/02 44/04	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] 	 47/08 Preparation from other phthalocyanine compounds [3] 47/10 Obtaining compounds having halogen atoms directly bound to the phthalocyanine
44/02	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or
44/02 44/04	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms,
44/04 44/06	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] 47/14 • • having alkyl radicals substituted by halogen atoms [3]
44/04 44/06	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] 47/14 • • having alkyl radicals substituted by halogen atoms [3] 47/16 • • • having alkyl radicals substituted by nitrogen
44/02 44/04 44/06 44/08	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] 47/14 • • • having alkyl radicals substituted by halogen atoms [3] 47/16 • • • having alkyl radicals substituted by nitrogen atoms [3]
44/02 44/04 44/06 44/08	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] 47/14 • • having alkyl radicals substituted by halogen atoms [3] 47/16 • • • having alkyl radicals substituted by nitrogen atoms [3]
44/02 44/04 44/06 44/08 44/10	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] 47/14 • • having alkyl radicals substituted by halogen atoms [3] 47/16 • • • having alkyl radicals substituted by nitrogen atoms [3] 47/18 • • Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3]
44/02 44/04 44/06 44/08 44/10 44/12	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] +7/14 having alkyl radicals substituted by halogen atoms [3] +7/16 having alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms
44/02 44/04 44/06 44/08 44/10 44/12 44/14	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] +7/14 + having alkyl radicals substituted by halogen atoms [3] +7/16 + having alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3]
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] 1,3-Diazoles or hydrogenated 1,3-diazoles [3] having three nitrogen atoms as the only ring hetero 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] +7/14 + having alkyl radicals substituted by halogen atoms [3] +7/16 + having alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16 44/18	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] 1,3-Diazoles or hydrogenated 1,3-diazoles [3] having three nitrogen atoms as the only ring hetero atoms [3] 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] having alkyl radicals substituted by halogen atoms [3] having alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3]
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16 44/18 44/20	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] having three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] Haring alkyl radicals substituted by halogen atoms [3] Haring alkyl radicals substituted by nitrogen atoms [3] Haring alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3]
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16 44/18 44/20 45/00	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] 1,3-Diazoles or hydrogenated 1,3-diazoles [3] having three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] Haring alkyl radicals substituted by halogen atoms [3] Haring alkyl radicals substituted by nitrogen atoms [3] Haring alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having mitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having mitrogen atoms directly bound to the phthalocyanine skeleton [3]
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16 44/18 44/20 45/00 45/01	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] 1,3-Diazoles or hydrogenated 1,3-diazoles [3] having three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] Complex metal compounds of azo dyes characterised by the method of metallisation [3] Preparation from dyes containing in o-position a hydroxy group and in o1-position hydroxy, alkoxy, 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] Haring alkyl radicals substituted by halogen atoms [3] Haring alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having mitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having —COOH or — SO₃H radicals, or derivatives thereof, directly
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16 44/18 44/20 45/00 45/01 45/02	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] having three nitrogen atoms as the only ring hetero atoms [3] having three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] Complex metal compounds of azo dyes characterised by the method of metallisation [3] Preparation from dyes containing in o-position a hydroxy group and in o1-position hydroxy, alkoxy, carboxyl, amino, or keto groups [2] 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] Haring alkyl radicals substituted by halogen atoms [3] Haring alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having mitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having —COOH or — SO₃H radicals, or derivatives thereof, directly bound to the phthalocyanine radical [3]
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16 44/18 44/20 45/00 45/01 45/02	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] having three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] thaving three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] Complex metal compounds of azo dyes characterised by the method of metallisation [3] Preparation from dyes containing in o-position a hydroxy group and in o1-position hydroxy, alkoxy, carboxyl, amino, or keto groups [2] Azo compounds in general 	 47/08 Preparation from other phthalocyanine compounds [3] Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] Haring alkyl radicals substituted by halogen atoms [3] Haring alkyl radicals substituted by nitrogen atoms [3] Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] Obtaining compounds having —COOH or — SO₃H radicals, or derivatives thereof, directly bound to the phthalocyanine radical [3] Arize Amide radicals [3]
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16 44/18 44/20 45/00 45/01 45/02	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] having three nitrogen atoms as the only ring hetero atoms [3] having three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] Complex metal compounds of azo dyes characterised by the method of metallisation [3] Preparation from dyes containing in o-position a hydroxy group and in o1-position hydroxy, alkoxy, carboxyl, amino, or keto groups [2] Azo compounds in general Chromium compounds 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] 47/14 • • having alkyl radicals substituted by halogen atoms [3] 47/16 • • having alkyl radicals substituted by nitrogen atoms [3] 47/18 • Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] 47/20 • Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] 47/22 • Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] 47/24 • Obtaining compounds having —COOH or — SO₃H radicals, or derivatives thereof, directly bound to the phthalocyanine radical [3] 47/26 • • Amide radicals [3] 47/28 • Phthalocyanine dyes containing —S—SO₃H
44/02 44/04 44/06 44/08 44/10 44/12 44/14 44/16 44/18 44/20 45/00 45/01 45/02	 Azo dyes containing onium groups [3] containing ammonium groups not directly attached to an azo group [3] from coupling components containing amino as the only directing group [3] from coupling components containing hydroxyl as the only directing group [3] from coupling components containing heterocyclic rings [3] containing cyclammonium groups attached to an azo group by a carbon atom of the ring system [3] having one nitrogen atom as the only ring hetero atom [3] 1,2-Diazoles or hydrogenated 1,2-diazoles [3] having three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] thaving three nitrogen atoms as the only ring hetero atoms [3] Thiazoles or hydrogenated thiazoles [3] Complex metal compounds of azo dyes characterised by the method of metallisation [3] Preparation from dyes containing in o-position a hydroxy group and in o1-position hydroxy, alkoxy, carboxyl, amino, or keto groups [2] Azo compounds in general 	 47/08 • Preparation from other phthalocyanine compounds [3] 47/10 • Obtaining compounds having halogen atoms directly bound to the phthalocyanine skeleton [3] 47/12 • Obtaining compounds having alkyl radicals, or alkyl radicals substituted by hetero atoms, bound to the phthalocyanine skeleton [3] 47/14 • having alkyl radicals substituted by halogen atoms [3] 47/16 • having alkyl radicals substituted by nitrogen atoms [3] 47/18 • Obtaining compounds having oxygen atoms directly bound to the phthalocyanine skeleton [3] 47/20 • Obtaining compounds having sulfur atoms directly bound to the phthalocyanine skeleton [3] 47/22 • Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton [3] 47/24 • Obtaining compounds having —COOH or — SO₃H radicals, or derivatives thereof, directly bound to the phthalocyanine radical [3] 47/26 • • Amide radicals [3] 47/28 • Phthalocyanine dyes containing —S—SO₃H radicals [3]

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	

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	62/763 • • the reactive group being a N-methylol group or an
	alkylene or alkylidene group, X is hydrogen 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]
	• • • Azo dyes [3]	62/773 • • • • Disazo or polyazo dyes [3]
62/473	• • • • Monoazo dyes [3]	62/775 • • • • Metal complex azo dyes [3]
	• • • Disazo or polyazo dyes [3]	62/777 • • • Porphines; Azaporphines [3]
62/477	• • • Metal complex azo dyes [3]	
62/483	 Porphines; Azaporphines [3] 	62/78 • • with other reactive groups
62/485	 the reactive group being a halo-cyclobutyl- 	62/80 • • • Anthracene dyes
	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]
62/489	• • • Azo dyes [3]	62/835 • • • Metal complex azo dyes [3]
62/491	• • • Monoazo dyes [3]	62/84 • • • Porphines; Azaporphines
62/493	• • • Disazo or polyazo dyes [3]	
	• • • Metal complex azo dyes [3]	
	• • Porphines; Azaporphines [3]	Lakes; Mordants; Dyestuff preparations
	 the reactive group being an esterified or non- 	63/00 Lakes
	esterified hydroxyalkyl sulfonyl or mercaptoalkyl sulfonyl group, a quaternised or non-quaternised	65/00 Compositions containing mordants (preparation of the
	aminoalkyl sulfonyl group, a heterylmercapto alkyl sulfonyl group, a vinyl sulfonyl or a	mordant compounds C01, C07)
	substituted vinyl sulfonyl group, or a thiophene-	67/00 Influencing the physical, e.g. the dyeing or printing,
	dioxide group [3]	properties of dyestuffs without chemical reaction,
62/505	Anthracene dyes [3]	e.g. by treating with solvents; Process features in the
62/507	• • • Azo dyes [3]	making of dyestuff preparations; Dyestuff
	• • • • Monoazo dyes [3]	preparations of a special physical nature, e.g. tablets,
	• • • Disazo or polyazo dyes [3]	films
	• • • • Metal complex azo dyes [3]	• Dyestuff preparations characterised by special
	• • Porphines; Azaporphines [3]	physical forms, e.g. tablets, films [3]
	 the reactive group being an esterified or non- 	• Grinding or milling (C09B 67/14 takes
02/323	esterified hydroxyalkyl sulfonyl amido or	precedence) [3]
	hydroxyalkyl amino sulfonyl group, a quaternised	67/06 • Drying [3]
	or non-quaternised amino alkyl sulfonyl amido	• Coated particulate pigments or dyes [3]
	group, or a substituted alkyl amino sulfonyl group,	• Influencing the physical properties by treatment with
	or a halogen alkyl sulfonyl amido or halogen alkyl	a liquid, e.g. solvents (C09B 67/14, C09B 67/18,
	amino sulfonyl group or a vinyl sulfonylamido or	C09B 67/20 take precedence) [3]
	a substituted vinyl sulfonamido group [3]	67/12 • • of phthalocyanines [3]
62/525	• • • Anthracene dyes [3]	• Influencing the physical properties by treatment with
62/527	• • • Azo dyes [3]	an acid [3]
62/53	• • • • Monoazo dyes [3]	67/16 • • of phthalocyanines [3]
62/533	• • • Disazo or polyazo dyes [3]	• Influencing the physical properties by treatment with
62/535	• • • Metal complex azo dyes [3]	an amine [3]
62/537	 Porphines; Azaporphines [3] 	• Preparations of organic pigments [3]
62/54	 the reactive group being an epoxy or halohydrin 	• Mixtures of different pigments or dyes or solid
	group [3]	solutions of pigments or dyes [3]
62/56	• • Anthracene dyes	• Preparations of acid dyes or reactive dyes [3]
an /= a	• • • Azo dyes	67/26 • • in liquid form [3]
62/585	• • • • Monoazo dyes [3]	67/28 • Preparations of vat or sulfur dyes [3]
62/59	• • • Disazo or polyazo dyes [3]	67/30 • • in liquid form [3]
62/595	• • • Metal complex azo dyes [3]	• Preparations of cationic or basic dyes [3]
	 Porphines; Azaporphines 	67/34 • • in liquid form [3]
	the reactive group being an ethylenimino or N-	67/36 • Azoic dyestuff preparations [3]
02/02	acylated ethylenimino group or a —CO—NH—	67/38 • Preparations of disperse dyes [3]
	CH ₂ —CH ₂ —X group, wherein X is a halogen	67/40 • • in liquid form [3]
	atom, a quaternary ammonium group or O-acyl	67/42 • Preparations of dyes not provided for in a single one
	and acyl is derived from an organic or inorganic	of groups C09B 67/24-C09B 67/40 [3]
	acid, or a beta-substituted ethylamine group	67/44 • • Solutions [3]
62/64	• • Anthracene dyes	67/46 • • Dispersions [3]
62/66	• • • Azo dyes	67/48 • Crystalline modifications of pigments or dyestuff
62/665	• • • • Monoazo dyes [3]	(C09B 67/24 takes precedence) [3]
J=1 JJJ	1.10110420 47 60 [0]	(332 372 tames precedence) [6]

67/50	 of phthalocyanines [3] 	• Dyestuff salts, e.g. salts of acid dyes with basic dyes
67/52	 of quinacridones [3] 	(for Na, K, or NH₄+ salts of dyes or for chlorides,
67/54	 Separation; Purification (C09B 67/06, C09B 67/10 	sulfates or chlorozincates, <u>see</u> the relevant dye
	take precedence) [3]	groups) [3]
	1 /11	69/04 • • of anionic dyes with nitrogen containing
		compounds [3]
		69/06 • • of cationic dyes with organic acids [3]
69/00	Dyes not provided for by a single group of this	69/08 • Dyes containing a splittable water solubilising
	subclass [2]	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 1/52	Carbon blackFurnace blackChannel black
1/02	Compounds of alkaline earth metals or magnesium	1/54	Acetylene black; thermal black
1/04	Compounds of zinc	1/54	Treatment of carbon black
1/06	• • Lithopone	1/58	
1/08	• • Zinc chromate	1/30	• • • Agglomerating, pelleting, or the like by wet methods
1/10	Compounds of cadmium	1/60	• • • • Agglomerating, pelleting, or the like by dry
1/12	Cadmium sulfoselenide	1/00	methods
1/14	Compounds of lead	1/62	 Metallic pigments or fillers (obtaining metal powder,
1/16	White lead	1,02	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		
1/28	Compounds of silicon	3/00	Treatment in general of inorganic materials, other
1/30	Silicic acid		than fibrous fillers, to enhance their pigmenting or
1/32	Ultramarine		filling properties (dyeing other macromolecular 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	5,01	ultrasonic vibrations [2]
1/40	Compounds of aluminium	3/06	 Treatment with inorganic compounds [2]
1/42	Clays (preparatory treatment for clay-wares	3/08	Treatment with low-molecular-weight organic
1/42	C04B 33/04)	0,00	compounds [2]
1/44	• Carbon	3/10	Treatment with macromolecular organic
1/46	Graphite (preparation of graphite C01B 31/04)		compounds [2]
1,40	Grapinic (preparation of grapinic CO1D 51/04)	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	.7/00
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	.17/00
•	

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
- Radiation-reflecting paints (C09D 5/30 takes precedence) [4]

10

- Filling pastes (materials for sealing or packing joints or covers C09K 3/10; materials for stopping leaks C09K 3/12)
 Pearl essence, e.g. coatings containing platelet-like pigments for pearl lustre
 Paints containing free metal not provided for in groups C09D 5/00-C09D 5/36 [2]
 for electrophoretic applications (C09D 5/46 takes precedence; processes for coating by electrophoresis C25D 13/00) [4]
- 5/46 for flame-spraying; for electrostatic or whirl-sintering coating [4]

7/00 Features of coating compositions, not provided for in group C09D 5/00 (driers C09F 9/00)

- 7/02 Use of compounds as anti-settling agents
- 7/04 Use of compounds as anti-skinning agents
- 7/06 Use of compounds as levelling agents
- 7/12 Other additives
- 7/14 Special processes for incorporating ingredients

9/00 Chemical paint or ink removers (fluid media for correction of typographical errors by coating C09D 10/00) [4]

- 9/02 with abrasives
- 9/04 with surface-active agents

10/00 Correcting fluids, e.g. fluid media for correction of typographical errors by coating [5]

11/00 Inks

- 11/02 Printing inks
- 11/04 • based on proteins
- 11/06 based on fatty oils
- 11/08 • based on natural resins
- 11/10 • based on artificial resins
- 11/12 • based on waxes or bitumen
- 11/14 • based on carbohydrates
- 11/16 Writing inks
- 11/18 • for use in ball-point writing instruments
- 11/20 • indelible

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

15/00 Woodstains [2]

17/00 Pigment pastes, e.g. for mixing in paints [2]

Coating compositions based on polysaccharides or on their derivatives [5]

Note(s) [2006.01]

1. In groups C09D 101/00-C09D 201/00, any macromolecular constituent of a coating composition which is not identified by the classification according to Note (3) after the title of subclass C09D, and the use of which is determined to be novel and non-obvious, must also be classified in a group chosen from groups C09D 101/00-C09D 201/00.

2. Any macromolecular constituent of a coating composition which is not identified by the classification according to Note (3) after the title of subclass C09D 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 C09D 101/00-C09D 201/00. This can for example be the case when it is considered of interest to enable searching of coating compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information."

101/00 Coating compositions 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 C09D 101/20) [5]
- 101/12 • Cellulose acetate **[5]**
- 101/14 • Mixed esters, e.g. cellulose acetate-butyrate [5]
- 101/16 Esters of inorganic acids (of both organic acids and inorganic acids C09D 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 Coating compositions 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 Coating compositions based on polysaccharides or on their derivatives, not provided for in groups C09D 101/00 or C09D 103/00 [5]

- 105/02 Dextran; Derivatives thereof [5]
- 105/04 Alginic acid; Derivatives thereof [5]
- Pectin; Derivatives thereof [5]
- 105/08 Chitin; Chondroitin sulfate; Hyaluronic acid;
 Derivatives thereof [5]
- 105/10 Heparin; Derivatives thereof [5]
- Agar-agar; Derivatives thereof [5]
- 105/14 Hemicellulose; Derivatives thereof [5]
- 105/16 Cyclodextrin; Derivatives thereof [5]

Coating of derivative	compositions based on rubbers or on their es [5]	123/14	• • • Copolymers of propene (C09D 123/16 takes precedence) [5]
107/00	Coating composition based on natural rubber [5]	123/16	 Ethene-propene or ethene-propene-diene copolymers [5]
107/02	• Latex [5]	123/18	 Homopolymers or copolymers of hydrocarbons having four or more carbon atoms [5]
109/00	Coating compositions based on homopolymers or	123/20	 • having four to nine carbon atoms [5]
109/02	copolymers of conjugated diene hydrocarbons [5]Copolymers with acrylonitrile [5]	123/22	• • • • Copolymers of isobutene; Butyl rubber [5]
109/02	• Copolymers with acryloniume [5] • Latex [5]	123/24	 having ten or more carbon atoms [5]
109/04	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]
100710	precedence) [5]	123/30	• • by oxidation [5]
111/00	Coating compositions based on homopolymers or	123/32	• • by reaction with phosphorus- or sulfur- containing 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
113/02	carboxyl groups [5]	125/00	copolymers of compounds having one or more
113/02	• Latex [5]		unsaturated aliphatic radicals, each having only one
115/00	Coating compositions based on rubber derivatives (C09D 111/00, C09D 113/00 take precedence) [5]		carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring;
115/02	• Rubber derivatives containing halogen [5]		Coating compositions based on derivatives of such polymers [5]
117/00	Coating compositions based on reclaimed rubber [5]	125/02	 Homopolymers or copolymers of hydrocarbons [5]
11//00	Coating compositions based on reclaimed rubber [5]	125/02	Homopolymers or copolymers of styrene [5]
119/00	Coating compositions based on rubbers, not	125/06	• • • Polystyrene [5]
119/02	provided for in groups C09D 107/00-C09D 117/00 [5] • Latex [5]	125/08	 Copolymers of styrene (C09D 129/08, C09D 135/06, C09D 155/02 take
121/00	Coating compositions based on unspecified	105/10	precedence) [5]
	rubbers [5]	125/10 125/12	• • • with conjugated dienes [5]• • • with unsaturated nitriles [5]
121/02	• Latex [5]	125/12	• • • with unsaturated esters [5]
		125/14	Homopolymers or copolymers of alkyl-
Coating o	compositions based on organic macromolecular		substituted styrenes [5]
compoun	ds obtained by reactions only involving carbon-to- nsaturated bonds [5]	125/18	Homopolymers or copolymers of aromatic monomers containing elements other than carbon and
	Note(s)		hydrogen [5]
	1. In groups C09D 123/00-C09D 149/00, "aliphatic	127/00	Coating compositions based on homopolymers or
	radical" means an acyclic or a non-aromatic		copolymers of compounds having one or more
	carbocyclic carbon skeleton which is considered		unsaturated aliphatic radicals, each having only one
	to be terminated by every bond to:		carbon-to-carbon double bond, and at least one being terminated by a halogen; Coating compositions
	a. an element other than carbon;b. a carbon atom having a double bond to one		based on derivatives of such polymers [5]
	atom other than carbon;	127/02	 not modified by chemical after-treatment [5]
	c. an aromatic carbocyclic ring or a	127/04	 containing chlorine atoms [5]
	heterocyclic ring.	127/06	 • • Homopolymers or copolymers of vinyl
	2. In groups C09D 123/00-C09D 149/00, in the absence of an indication to the contrary, a	405/00	chloride [5]
	copolymer is classified according to the major	127/08	 Homopolymers or copolymers of vinylidene chloride [5]
	monomeric component.	127/10	 containing bromine or iodine atoms [5]
400 (00		127/12	 containing bromme or rounce atoms [5] containing fluorine atoms [5]
123/00	Coating compositions based on homopolymers or copolymers of unsaturated aliphatic hydrocarbons	127/14	Homopolymers or copolymers of vinyl
	having only one carbon-to-carbon double bond;		fluoride [5]
	Coating compositions based on derivatives of such polymers [5]	127/16	 Homopolymers or copolymers of vinylidene fluoride [5]
123/02	• not modified by chemical after-treatment [5]	127/18	• • • Homopolymers or copolymers of
123/04	• • Homopolymers or copolymers of ethene [5]		tetrafluoroethene [5]
123/06	• • • Polyethene [5]	127/20	• • Homopolymers or copolymers of
123/08	• • • Copolymers of ethene (C09D 123/16 takes	127/22	hexafluoropropene [5] • modified by chemical after-treatment [5]
123/10	precedence) [5] • Homopolymers or copolymers of propene [5]	127/24	halogenated [5]
123/10	• • Polypropene [5]	, _ ,	

129/00	Coating compositions based on homopolymers or	133/18	 Homopolymers or copolymers of nitriles [5]
	copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one	133/20	 Homopolymers or copolymers of acrylonitrile (C09D 155/02 takes precedence) [5]
	carbon-to-carbon double bond, and at least one	133/22	 Homopolymers or copolymers of nitriles
	being terminated by an alcohol, ether, aldehydo, ketonic, acetal, or ketal radical; Coating		containing four or more carbon atoms [5]
	compositions based on hydrolysed polymers of esters	133/24	 Homopolymers or copolymers of amides or imides [5]
	of unsaturated alcohols with saturated carboxylic acids; Coating compositions based on derivatives of	133/26	Homopolymers or copolymers of acrylamide or
	such polymers [5]		methacrylamide [5]
129/02	Homopolymers or copolymers of unsaturated	135/00	Coating compositions based on homopolymers or
	alcohols (C09D 129/14 takes precedence) [5]	1557 00	copolymers of compounds having one or more
129/04	 Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of 		unsaturated aliphatic radicals, each having only one
	unsaturated alcohols with saturated carboxylic		carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and
	acids [5]		containing at least another carboxyl radical in the
129/06	Copolymers of allyl alcohol [5]		molecule, or of salts, anhydrides, esters, amides,
129/08 129/10	• • with vinyl aromatic monomers [5]• Homopolymers or copolymers of unsaturated ethers		imides or nitriles thereof; Coating compositions based on derivatives of such polymers [5]
129/10	(C09D 135/08 takes precedence) [5]	135/02	Homopolymers or copolymers of esters
129/12	Homopolymers or copolymers of unsaturated		(C09D 135/06, C09D 135/08 take precedence) [5]
	ketones [5]	135/04	• Homopolymers or copolymers of nitriles (C09D 135/06, C09D 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	135/08	• Copolymers with vinyl ethers [5]
	unsaturated alcohols [5]	405/00	
131/00	Coating compositions based on homopolymers or	137/00	Coating compositions based on homopolymers or copolymers of compounds having one or more
	copolymers of compounds having one or more		unsaturated aliphatic radicals, each having only one
	unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one		carbon-to-carbon double bond, and at least one
	being terminated by an acyloxy radical of a		being terminated by a heterocyclic ring containing oxygen (based on polymers of cyclic esters of
	saturated carboxylic acid, of carbonic acid, or of a		polyfunctional acids C09D 131/00; based on polymers
	haloformic acid (based on hydrolysed polymers		of cyclic anhydrides of unsaturated acids C09D 135/00);
	C09D 129/00); Coating compositions based on derivatives of such polymers [5]		Coating compositions based on derivatives of such polymers [5]
131/02	 Homopolymers or copolymers of esters of 	400/00	
121/04	monocarboxylic acids [5]• Homopolymers or copolymers of vinyl acetate [5]	139/00	Coating compositions based on homopolymers or copolymers of compounds having one or more
131/04 131/06	Homopolymers or copolymers of esters of		unsaturated aliphatic radicals, each having only one
	polycarboxylic acids [5]		carbon-to-carbon double bond, and at least one being terminated by a single or double bond to
131/08	of phthalic acid [5]		nitrogen or by a heterocyclic ring containing
133/00	Coating compositions based on homopolymers or		nitrogen; Coating compositions based on derivatives
155, 00	copolymers of compounds having one or more	120/02	of such polymers [5]
	unsaturated aliphatic radicals, each having only one	139/02 139/04	Homopolymers or copolymers of vinylamine [5]Homopolymers or copolymers of monomers
	carbon-to-carbon double bond, and at least one being terminated by only one carboxyl radical, or of	10070.	containing heterocyclic rings having nitrogen as ring
	salts, anhydrides, esters, amides, imides, or nitriles		member [5]
	thereof; Coating compositions based on derivatives of such polymers [5]	139/06	 Homopolymers or copolymers of N-vinyl- pyrrolidones [5]
133/02	Homopolymers or copolymers of acids; Metal or	139/08	Homopolymers or copolymers of vinyl-
	ammonium salts thereof [5]		pyridine [5]
133/04	Homopolymers or copolymers of esters [5]	141/00	Coating compositions based on homopolymers or
133/06	 of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as 	111/00	copolymers of compounds having one or more
	part of the carboxyl radical [5]		unsaturated aliphatic radicals, each having only one
133/08	• • • Homopolymers or copolymers of acrylic acid		carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a
100/10	esters [5]		heterocyclic ring containing sulfur; Coating
133/10	 • Homopolymers or copolymers of methacrylic acid esters [5] 		compositions based on derivatives of such polymers [5]
133/12	• • • Homopolymers or copolymers of methyl		polymers [5]
4557	methacrylate [5]	143/00	Coating compositions based on homopolymers or
133/14	 of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy 		copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one
	oxygen [5]		carbon-to-carbon double bond, and containing
133/16	 Homopolymers or copolymers of esters 		boron, silicon, phosphorus, selenium, tellurium or a
	containing halogen atoms [5]		metal; Coating compositions based on derivatives of such polymers [5]

143/02	Homopolymers or copolymers of monomers	157/10	 containing oxygen atoms [5]
	containing phosphorus [5]	157/12	 containing nitrogen atoms [5]
143/04	Homopolymers or copolymers of monomers		
	containing silicon [5]	Coating	compositions based on organic macromolecular
145/00	Coating compositions based on homopolymers or	<u>compour</u>	nds obtained otherwise than by reactions only involving
	copolymers of compounds having no unsaturated aliphatic radicals in a side chain, and having one or	<u>carbon-t</u>	o-carbon unsaturated bonds [5]
	more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic ring system; Coating	159/00	Coating compositions based on polyacetals; Coating compositions based on derivatives of polyacetals [5]
	compositions based on derivatives of such polymers (based on polymers of cyclic esters of polyfunctional	159/02	Polyacetals containing polyoxymethylene sequence only [5]
	acids C09D 131/00; based on polymers of cyclic anhydrides or imides C09D 135/00) [5]	159/04	Copolyoxymethylenes [5]
145/02	Coumarone-indene polymers [5]	161/00	Coating compositions based on condensation
147/00	Coating compositions based on homolymers or		polymers of aldehydes or ketones (with polyalcohols C09D 159/00; with polynitriles C09D 177/00); Coating
147700	copolymers of compounds having one or more		compositions based on derivatives of such
	unsaturated aliphatic radicals, at least one having		polymers [5]
	two or more carbon-to-carbon double bonds;	161/02	 Condensation polymers of aldehydes or ketones
	Coating compositions based on derivatives of such		only [5]
	polymers (C09D 145/00 takes precedence; based on conjugated diene rubbers C09D 109/00-	161/04	• Condensation polymers of aldehydes or ketones with phenols only [5]
	C09D 121/00) [5]	161/06	 of aldehydes with phenols [5]
149/00	Coating compositions based on homopolymers or	161/08	• • • with monohydric phenols [5]
	copolymers of compounds having one or more	161/10	• • • • Phenol-formaldehyde condensates [5]
	carbon-to-carbon triple bonds; Coating compositions	161/12	 • with polyhydric phenols [5]
	based on derivatives of such polymers [5]	161/14	 • Modified phenol-aldehyde condensates [5]
151/00	Coating compositions based on graft polymers in	161/16	 of ketones with phenols [5]
131/00	which the grafted component is obtained by	161/18	 Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives
	reactions only involving carbon-to-carbon unsaturated bonds (based on ABS polymers		only [5]
	C09D 155/02); Coating compositions based on	161/20	 Condensation polymers of aldehydes or ketones with
	derivatives of such polymers [5]		only compounds containing hydrogen attached to
151/02	 grafted on to polysaccharides [5] 	161/22	nitrogen (with amino phenols C09D 161/04) [5]
151/04	• grafted on to rubbers [5]	101/22	 of aldehydes with acyclic or carbocyclic compounds [5]
151/06	grafted on to homopolymers or copolymers of	161/24	• • • with urea or thiourea [5]
	aliphatic hydrocarbons containing only one carbon- to-carbon double bond [5]	161/26	 of aldehydes with heterocyclic compounds [5]
151/08	grafted on to macromolecular compounds obtained	161/28	• • • with melamine [5]
131700	otherwise than by reactions only involving carbon-to-	161/30	 of aldehydes with heterocyclic and acyclic or carbocyclic compounds [5]
151/10	carbon unsaturated bonds [5]grafted on to inorganic materials [5]	161/32	 Modified amine-aldehyde condensates [5]
131/10	granted on to morganic materials [5]	161/34	 Condensation polymers of aldehydes or ketones with
153/00	Coating compositions based on block copolymers containing at least one sequence of a polymer		monomers covered by at least two of the groups C09D 161/04, C09D 161/18 and C09D 161/20 [5]
	obtained by reactions only involving carbon-to-		
	carbon unsaturated bonds; Coating compositions based on derivatives of such polymers [5]	163/00	Coating compositions based on epoxy resins; Coating compositions based on derivatives of epoxy resins [5]
153/02	 Vinyl aromatic monomers and conjugated dienes [5] 	163/02	 Polyglycidyl ethers of bis-phenols [5]
155/00	Cook and a second color of the cook	163/04	• Epoxynovolacs [5]
155/00	Coating composition based on homopolymers or copolymers, obtained by polymerisation reactions	163/06	 Triglycidylisocyanurates [5]
	only involving carbon-to-carbon unsaturated bonds,	163/08	 Epoxidised polymerised polyenes [5]
	not provided for in groups C09D 123/00- C09D 153/00 [5]	163/10	Epoxy resins modified by unsaturated compounds [5] Note(s)
155/02	ABS [Acrylonitrile-Butadiene-Styrene] polymers [5]		Note(s)
155/04	• Polyadducts obtained by the diene synthesis [5]		In groups C09D 165/00-C09D 185/00, in the absence of an indication to the contrary, coating compositions
157/00	Coating compositions based on unspecified polymers		based on macromolecular compounds obtained by reactions forming two different linkages in the main
	obtained by reactions only involving carbon-to-		chain are classified only according to the linkage
	carbon unsaturated bonds [5]		y 0 0 -

chain are classified only according to the linkage present in excess.

157/02

157/04

157/06

157/08

carbon unsaturated bonds [5]

is defined [5]

• Copolymers of mineral oil hydrocarbons [5]

other than carbon and hydrogen [5]

• • containing halogen atoms [5]

• Copolymers in which only the monomer in minority

• Homopolymers or copolymers containing elements

165/00	Coating compositions based on macromolecular	175/14	 Polyurethanes having carbon-to-carbon
	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 polymers [5]	177/00	Coating compositions based on polyamides obtained
16E /02	= -	1///00	Coating compositions based on polyamides obtained by reactions forming a carboxylic amide link in the
165/02 165/04	Polyphenylenes [5] Polyphenylenes [5]		main chain (based on polyhydrazides C09D 179/06;
105/04	• Polyxylylenes [5]		based on polyamide-imides C09D 179/08); Coating
167/00	Coating compositions based on polyesters obtained		compositions based on derivatives of such
	by reactions forming a carboxylic ester link in the		polymers [5]
	main chain (based on polyester-amides C09D 177/12;	177/02	 Polyamides derived from omega-amino carboxylic
	based on polyester-imides C09D 179/08); Coating		acids or from lactams thereof (C09D 177/10 takes
	compositions based on derivatives of such		precedence) [5]
107/00	polymers [5]	177/04	Polyamides derived from alpha-amino carboxylic
167/02	Polyesters derived from dicarboxylic acids and dibydrawy companyed (COOD 167/06 takes)	455/00	acids (C09D 177/10 takes precedence) [5]
	dihydroxy compounds (C09D 167/06 takes precedence) [5]	177/06	Polyamides derived from polyamines and Polyamides derived from polyamines and
167/03	the dicarboxylic acids and dihydroxy compounds		polycarboxylic acids (C09D 177/10 takes precedence) [5]
107703	having the hydroxy and the carboxyl groups	177/08	 from polyamines and polymerised unsaturated
	directly linked to aromatic rings [5]	177700	fatty acids [5]
167/04	 Polyesters derived from hydroxy carboxylic acids, 	177/10	 Polyamides derived from aromatically bound amino
	e.g. lactones (C09D 167/06 takes precedence) [5]	177710	and carboxyl groups of amino carboxylic acids or of
167/06	 Unsaturated polyesters having carbon-to-carbon 		polyamines and polycarboxylic acids [5]
	unsaturation [5]	177/12	 Polyester-amides [5]
167/07	 having terminal carbon-to-carbon unsaturated 		
	bonds [5]	179/00	Coating compositions based on macromolecular
167/08	 Polyesters modified with higher fatty oils or their 		compounds obtained by reactions forming in the
	acids, or with natural resins or resin acids [5]		main chain of the macromolecule a linkage containing nitrogen, with or without oxygen, or
169/00	Coating compositions based on polycarbonates;		carbon only, not provided for in groups
105700	Coating compositions based on derivatives of		C09D 161/00-C09D 177/00 [5]
	polycarbonates [5]	179/02	• Polyamines [5]
		179/04	 Polycondensates having nitrogen-containing
171/00	Coating compositions based on polyethers obtained		heterocyclic rings in the main chain; Polyhydrazides;
	by reactions forming an ether link in the main chain		Polyamide acids or similar polyimide precursors [5]
	(based on polyacetals C09D 159/00; based on epoxy resins C09D 163/00; based on polythioether-ethers	179/06	 Polyhydrazides; Polytriazoles; Polyamino-
	C09D 181/02; based on polyethersulfones		triazoles; Polyoxadiazoles [5]
	C09D 181/06); Coating compositions based on	179/08	 Polyimides; Polyester-imides; Polyamide-imides;
	derivatives of such polymers [5]		Polyamide acids or similar polyimide precursors [5]
171/02	 Polyalkylene oxides [5] 		precursors [J]
171/03	 Polyepihalohydrins [5] 	181/00	Coating compositions based on macromolecular
171/08	 Polyethers derived from hydroxy compounds or from 		compounds obtained by reactions forming in the
	their metallic derivatives (C09D 171/02 takes		main chain of the macromolecule a linkage
.=	precedence) [5]		containing sulfur, with or without nitrogen, oxygen,
171/10	• • from phenols [5]		or carbon only; Coating compositions based on polysulfones; Coating compositions based on
171/12	• • • Polyphenylene oxides [5]		derivatives of such polymers [5]
171/14	 • Furfuryl alcohol polymers [5] 	181/02	• Polythioethers; Polythioether-ethers [5]
173/00	Coating compositions based on macromolecular	181/04	• Polysulfides [5]
175700	compounds obtained by reactions forming a linkage	181/06	• Polysulfones; Polyethersulfones [5]
	containing oxygen or oxygen and carbon in the main	181/08	• Polysulfonates [5]
	chain, not provided for in groups C09D 159/00-	181/10	 Polysulfonamides; Polysulfonimides [5]
	C09D 171/00; Coating compositions based on		i gas a sample gas a sample gas
450 (00	derivatives of such polymers [5]	183/00	Coating compositions based on macromolecular
173/02	• Polyanhydrides [5]		compounds obtained by reactions forming in the
175/00	Coating compositions based on polyureas or		main chain of the macromolecule a linkage
	polyurethanes; Coating compositions based on		containing silicon, with or without sulfur, nitrogen, oxygen, or carbon only; Coating compositions based
	derivatives of such polymers [5]		on derivatives of such polymers [5]
175/02	• Polyureas [5]	183/02	• Polysilicates [5]
175/04	• Polyurethanes [5]	183/04	• Polysiloxanes [5]
175/06	• • from polyesters [5]	183/05	 containing silicon bound to hydrogen [5]
175/08	• • from polyethers [5]	183/06	containing silicon bound to oxygen-containing
175/10	• • from polyacetals [5]		groups (C09D 183/12 takes precedence) [5]
175/12	 from compounds containing nitrogen and active 	183/07	containing silicon bound to unsaturated aliphatic
	hydrogen, the nitrogen atom not being part of an		groups [5]
	isocyanate group [5]		

183/08	• • containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and	191/00	Coating compositions based on oils, fats or waxes; Coating compositions based on derivatives thereof
	oxygen [5]		(polishing compositions, ski waxes C09G) [5]
183/10	Block or graft copolymers containing polysiloxane	191/02	 Vulcanised oils, e.g. factice [5]
	sequences (obtained by polymerising a compound	191/04	• Linoxyn [5]
	having a carbon-to-carbon double bond on to a	191/06	• Waxes [5]
102/12	polysiloxane C09D 151/08, C09D 153/00) [5]	191/08	 Mineral waxes [5]
183/12	• • containing polyether sequences [5]	400 /00	
183/14	 in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (C09D 183/10 takes precedence) [5] 	193/00	Coating compositions based on natural resins; Coating compositions based on derivatives thereof (based on polysaccharides C09D 101/00-C09D 105/00;
183/16	 in which all the silicon atoms are connected by 		based on natural rubber C09D 107/00; polishing
	linkages other than oxygen atoms [5]	102/02	compositions C09G) [5]
185/00	Coating compositions based on macromolecular	193/02	• Shellac [5]
105/00	compounds obtained by reactions forming in the	193/04	• Rosin [5]
	main chain of the macromolecule a linkage	195/00	Coating compositions based on bituminous
	containing atoms other than silicon, sulfur, nitrogen,		materials, e.g. asphalt, tar or pitch [5]
	oxygen, and carbon; Coating compositions based on derivatives of such polymers [5]	107/00	Costing commerciations board on liquin containing
185/02		197/00	Coating compositions based on lignin-containing materials (based on polysaccharides C09D 101/00-
	• containing phosphorus [5]		C09D 105/00) [5]
185/04	• containing boron [5]	197/02	Lignocellulosic material, e.g. wood, straw or
187/00	Coating compositions based on unspecified	13//02	bagasse [5]
107700	macromolecular compounds, obtained otherwise		bugusse [5]
	than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds [5]	199/00	Coating compositions based on natural macromolecular compounds or on derivatives thereof, not provided for in groups C09D 101/00-
			C09D 107/00 or C09D 189/00-C09D 197/00 [5]
Coating	compositions based on natural macromolecular		
	nds or on derivatives thereof [5]		
400/00		224/22	
189/00	Coating compositions based on proteins; Coating compositions based on derivatives thereof [5]	201/00	Coating compositions based on unspecified macromolecular compounds [5]
189/02	 Casein-aldehyde condensates [5] 	201/02	 characterised by the presence of specified groups [5]
189/04	 Products derived from waste materials, e.g. horn, 	201/04	 containing halogen atoms [5]
	hoof or hair [5]	201/06	 containing oxygen atoms [5]
189/06	 derived from leather or skin [5] 	201/08	 Carboxyl groups [5]
		201/10	• • containing hydrolysable silane groups [5]
C09F	NATURAL RESINS; FRENCH POLISH; DRYING-OIL	LS; DRIERS	(SICCATIVES); TURPENTINE
1/00	Obtaining, purification, or chemical modification of	5/10	 Refining
	natural resins, e.g. oleo-resins	5/12	 by distillation
1/02	 Purification 	5 /00	Chamical and History of Justice 19, 16, 11, 1997
1/04	 Chemical modification, e.g. esterification 	7/00	Chemical modification of drying-oils (factice C08H)
2/00	Obtaining enimits of townserting	7/02	by oxidising
3/00	Obtaining spirits of turpentine	7/04	by voltolising
3/02	 as a by-product in the paper-pulping process 	7/06	 by polymerisation
5/00	Obtaining drying-oils	7/08	 by isomerisation
5/02	from natural sources	7/10	 by re-esterification
		7/12	 Apparatus therefor
5/04	from cashew nuts hydrodyntan of hydrodynlated fatty saids on sile		
5/06	 by dehydration of hydroxylated fatty acids or oils by exterification of fatty acids 	9/00	Compounds to be used as driers (siccatives)
5/08	by esterification of fatty acids	11/00	Preparation of French polish
C09G	POLISHING COMPOSITIONS OTHER THAN FRENC	CH POLISH;	SKI WAXES
1/00	Polishing compositions (French polish C09F 11/00;	1/08	• • based on wax
	detergents C11D)	1/10	 based on mixtures of wax and natural or
1/02	 containing abrasives or grinding agents 		synthetic resin
1/04	 Aqueous dispersions (C09G 1/02 takes precedence) 	1/12	• • • mixtures of wax and silicon-containing
1/06	Other polishing compositions		polycondensates

polycondensates

1/06

• Other polishing compositions

1/14	 based on non-waxy substances 	1/18	• • • on other substances
1/16	• • • on natural or synthetic resins	3/00	Ski waxes

C09H 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. by extracting, by heating (gelatine for foodstuffs A23J 1/10)	9/00 9/02 9/04	Drying of glue or gelatinein the form of foilsin the form of granules, e.g. beads

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	
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

4/00 Adhesives based on organic non-macromolecular

1/02 • containing water-soluble alkali silicates

Esters of organic acids (of both organic acids and compounds having at least one polymerisable 101/10 carbon-to-carbon unsaturated bond [5] inorganic acids C09J 101/20) [5] 4/02 Acrylmonomers [5] 101/12 • Cellulose acetate [5] 4/04 Cyanoacrylate monomers [5] 101/14 Mixed esters, e.g. cellulose acetate-butyrate [5] 4/06 in combination with a macromolecular compound 101/16 Esters of inorganic acids (of both organic acids other than an unsaturated polymer of groups and inorganic acids C09J 101/20) [5] C09J 159/00-C09J 187/00 [5] 101/18 Cellulose nitrate [5] Esters of both organic acids and inorganic 101/20 5/00 Adhesive processes in general; Adhesive processes acids [5] not provided for elsewhere, e.g. relating to primers 101/22 Cellulose xanthate [5] 5/02 involving pretreatment of the surfaces to be joined 101/24 • Viscose [5] 5/04 · involving separate application of adhesive ingredients 101/26 • • Cellulose ethers [5] to the different surfaces to be joined 101/28 · Alkyl ethers [5] 5/06 involving heating of the applied adhesive 101/30 • • Arvl ethers; Aralkyl ethers [5] 5/08 · using foamed adhesives 101/32 • • Cellulose ether-esters [5] Joining materials by welding overlapping edges with 5/10 an insertion of plastic material 103/00 Adhesives based on starch, amylose or amylopectin or on their derivatives or degradation products [5] 7/00 Adhesives in the form of films or foils 103/02 • Starch; Degradation products thereof, e.g. dextrin [5] 7/02 on carriers 103/04 Starch derivatives [5] 7/04 on paper or textile fabric (adhesive bandages, 103/06 Esters [5] dressings or absorbent pads A61L 15/16) 103/08 • • Ethers [5] 9/00 Adhesives characterised by their physical nature or 103/10 • • Oxidised starch [5] the effects produced, e.g. glue sticks (C09J 7/00 takes 103/12 · Amylose; Amylopectin; Degradation products precedence) [5] thereof [5] 9/02 Electrically-conducting adhesives (electrically 103/14 • Amylose derivatives; Amylopectin derivatives [5] conductive adhesives specially adapted for use in 103/16 • • Esters [5] therapy or testing in vivo A61K 50/00) [5] 103/18 Ethers [5] 103/20 • • Oxidised amylose; Oxidised amylopectin [5] 11/00 Features of adhesives not provided for in group C09J 9/00, e.g. additives [5] 105/00 Adhesives based on polysaccharides or on their 11/02 Non-macromolecular additives [5] derivatives, not provided for in groups C09J 101/00 11/04 inorganic [5] or C09J 103/00 [5] 11/06 organic [5] 105/02 • Dextran; Derivatives thereof [5] 11/08 • Macromolecular additives [5] 105/04 • Alginic acid; Derivatives thereof [5] 105/06 • Pectin; Derivatives thereof [5] • Chitin; Chondroitin sulfate; Hyaluronic acid; 105/08 Adhesives based on polysaccharides or on their derivatives [5] Derivatives thereof [5] 105/10 Note(s) • Heparin; Derivatives thereof [5] 105/12 • Agar-agar; Derivatives thereof [5] In groups C09J 101/00-C09J 201/00, any 105/14 • Hemicellulose; Derivatives thereof [5] macromolecular constituent of an adhesive composition which is not identified by the 105/16 • Cyclodextrin; Derivatives thereof [5] 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 Adhesives based on rubbers or on their derivatives [5] also be classified in a group chosen from groups 107/00 Adhesives based on natural rubber [5] C09J 101/00-C09J 201/00. Any macromolecular constituent of an adhesive 107/02 • Latex [5] composition which is not identified by the 109/00 Adhesives based on homopolymers or copolymers of classification according to Note (3) after the title conjugated diene hydrocarbons [5] of subclass C09J or Note (1) above, and which is considered to represent information of interest for 109/02 • Copolymers with acrylonitrile [5] search, may also be classified in a group chosen 109/04 • • Latex [5] from groups C09J 101/00-C09J 201/00. This can, 109/06 Copolymers with styrene [5] for example, be the case when it is considered of 109/08 • • Latex [5] interest to enable searching of adhesive 109/10 • Latex (C09J 109/04, C09J 109/08 take compositions using a combination of precedence) [5] classification symbols. Such non-obligatory classification should be given as "additional 111/00 Adhesives based on homopolymers or copolymers of information". chloroprene [5] 111/02 • Latex [5] 101/00 Adhesives based on cellulose, modified cellulose, or cellulose derivatives [5] 113/00 Adhesives based on rubbers containing carboxyl 101/02 • Cellulose; Modified cellulose [5] groups [5] 101/04 • • Oxycellulose; Hydrocellulose [5] 113/02 • Latex [5] 101/06 • • Cellulose hydrate [5]

101/08

• Cellulose derivatives [5]

115/00	Adhesives based on rubber derivatives (C09J 111/00,	125/02	 Homopolymers or copolymers of hydrocarbons [5]
	C09J 113/00 take precedence) [5]	125/04	 Homopolymers or copolymers of styrene [5]
115/02	 Rubber derivatives containing halogen [5] 	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	Adhesives based on unspecified rubbers [5]	125/16	 Homopolymers or copolymers of alkyl-substituted styrenes [5]
121/02	• Latex [5]	125/18	 Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen [5]
	s based on organic macromolecular compounds	127/00	Adhesives based on homopolymers or copolymers of
	by reactions only involving carbon-to-carbon ted bonds [5]	127/00	compounds having one or more unsaturated
unsatura			aliphatic radicals, each having only one carbon-to-
	Note(s) [1, 2006.01]		carbon double bond, and at least one being
	1. In groups C09J 123/00-C09J 149/00, "aliphatic		terminated by a halogen; Adhesives based on
	radical" means an acyclic or a non-aromatic	405/00	derivatives of such polymers [5]
	carbocyclic carbon skeleton which is considered	127/02	• not modified by chemical after-treatment [5]
	to be terminated by every bond to: a. an element other than carbon;	127/04	• • containing chlorine atoms [5]
	b. a carbon atom having a double bond to one	127/06	 • • Homopolymers or copolymers of vinyl chloride [5]
	atom other than carbon; c. an aromatic carbocyclic ring or a	127/08	 • Homopolymers or copolymers of vinylidene chloride [5]
	heterocyclic ring.	127/10	 containing bromine or iodine atoms [5]
	2. In groups C09J 123/00-C09J 149/00, in the 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	127/16	• • Homopolymers or copolymers of vinylidene fluoride [5]
125/00	unsaturated aliphatic hydrocarbons having only one	127/18	• • • Homopolymers or copolymers of
	carbon-to-carbon double bond; Adhesives based on	12//10	tetrafluoroethene [5]
	derivatives of such polymers [5]	127/20	• • Homopolymers or copolymers of
123/02	 not modified by chemical after-treatment [5] 		hexafluoropropene [5]
123/04	 Homopolymers or copolymers of ethene [5] 	127/22	 modified by chemical after-treatment [5]
123/06	• • • Polyethene [5]	127/24	 halogenated [5]
123/08	• • Copolymers of ethene (C09J 123/16 takes precedence) [5]	129/00	Adhesives based on homopolymers or copolymers of
123/10	Homopolymers or copolymers of propene [5]		compounds having one or more unsaturated
123/12	Polypropene [5]		aliphatic radicals, each having only one carbon-to-
123/14	• • • Copolymers of propene (C09J 123/16 takes		carbon double bond, and at least one being
	precedence) [5]		terminated by an alcohol, ether, aldehydo, ketonic,
123/16	Ethene-propene or ethene-propene-diene		acetal, or ketal radical; Adhesives based on hydrolysed polymers of esters of unsaturated
	copolymers [5]		alcohols with saturated carboxylic acids; Adhesives
123/18	 Homopolymers or copolymers of hydrocarbons 		based on derivatives of such polymers [5]
400 /==	having four or more carbon atoms [5]	129/02	 Homopolymers or copolymers of unsaturated
123/20	• • • having four to nine carbon atoms [5]		alcohols (C09J 129/14 takes precedence) [5]
123/22	• • • Copolymers of isobutene; Butyl rubber [5]	129/04	Polyvinyl alcohol; Partially hydrolysed
123/24	• • • having ten or more carbon atoms [5]		homopolymers or copolymers of esters of
123/26 123/28	modified by chemical after-treatment [5] hyprostion with balances or balance containing		unsaturated alcohols with saturated carboxylic acids [5]
123/20	• • by reaction with halogens or halogen-containing compounds (C09J 123/32 takes precedence) [5]	129/06	Copolymers of allyl alcohol [5]
123/30	• • by oxidation [5]	129/08	• • with vinyl aromatic monomers [5]
123/32	 by reaction with phosphorus- or sulfur-containing 	129/10	 Homopolymers or copolymers of unsaturated ethers
	compounds [5]		(C09J 135/08 takes precedence) [5]
123/34	• • • by chlorosulfonation [5]	129/12	 Homopolymers or copolymers of unsaturated
123/36	• • by reaction with nitrogen-containing compounds,		ketones [5]
	e.g. by nitration [5]	129/14	 Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or
125/00	Adhesives based on homopolymers or copolymers of		ketals or by after-treatment of polymers of
	compounds having one or more unsaturated		unsaturated alcohols [5]
	aliphatic radicals, each having only one carbon-to-		
	carbon double bond, and at least one being terminated by an aromatic carbocyclic ring;		
	Adhesives based on derivatives of such polymers [5]		
	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		

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 acid (based on hydrolysed polymers C09J 129/00); Adhesives based on derivatives of such polymers [5]	137/00	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 a heterocyclic ring containing oxygen (based on polymers of cyclic esters of polyfunctional acids C09J 131/00; based on polymers of cyclic anhydrides of unsaturated acids C09J 135/00);
131/02	 Homopolymers or copolymers of esters of monocarboxylic acids [5] 	139/00	Adhesives based on derivatives of such polymers [5] Adhesives based on homopolymers or copolymers of
131/04 131/06	 • Homopolymers or copolymers of vinyl acetate [5] • Homopolymers or copolymers of esters of polycarboxylic acids [5] 	139/00	compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-
131/08	• • of phthalic acid [5]		carbon double bond, and at least one being 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 compounds having one or more unsaturated		based on derivatives of such polymers [5]
	aliphatic radicals, each having only one carbon-to-	139/02	Homopolymers or copolymers of vinylamine [5]
	carbon double bond, and at least one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides, or nitriles	139/04	 Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member [5]
	thereof; Adhesives based on derivatives of such	139/06	Homopolymers or copolymers of N-vinyl-
133/02	polymers [5]Homopolymers or copolymers of acids; Metal or	139/08	pyrrolidones [5]Homopolymers or copolymers of vinyl-
	ammonium salts thereof [5]		pyridine [5]
133/04 133/06	 Homopolymers or copolymers of esters [5] of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as part of the carboxyl radical [5] 	141/00	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
133/08	 • Homopolymers or copolymers of acrylic acid esters [5] 		terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Adhesives based on
133/10	• • • Homopolymers or copolymers of methacrylic acid esters [5]		derivatives of such polymers [5]
133/12	• • • Homopolymers or copolymers of methyl methacrylate [5]	143/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated
133/14	 of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy oxygen [5] 		aliphatic radicals, each having only one carbon-to- carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal;
133/16	• • Homopolymers or copolymers of esters		Adhesives based on derivatives of such polymers [5]
133/18	containing halogen atoms [5] • Homopolymers or copolymers of nitriles [5]	143/02	 Homopolymers or copolymers of monomers containing phosphorus [5]
133/10	 Homopolymers or copolymers of acrylonitrile (C09J 155/02 takes precedence) [5] 	143/04	Homopolymers or copolymers of monomers containing silicon [5]
133/22	 Homopolymers or copolymers of nitriles containing four or more carbon atoms [5] 	145/00	Adhesives based on homopolymers or copolymers of
133/24	 Homopolymers or copolymers of amides or imides [5] 		compounds having no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to- carbon double bonds in a carbocyclic or in a
133/26	Homopolymers or copolymers of acrylamide or methacrylamide [5]		heterocyclic ring system; Adhesives based on derivatives of such polymers (based on polymers of cyclic esters of polyfunctional acids C09J 131/00; based
135/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated		on polymers of cyclic anhydrides or imides C09J 135/00) [5]
	aliphatic radicals, each having only one carbon-to- carbon double bond, and at least one being	145/02	Coumarone-indene polymers [5]
	terminated by a carboxyl radical, and containing at least another carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Adhesives based on derivatives of such polymers [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 carbon-to-carbon double bonds; Adhesives based on
135/02	Homopolymers or copolymers of esters (C09J 135/06, C09J 135/08 take precedence) [5]		derivatives of such polymers (C09J 145/00 takes precedence; based on conjugated diene rubbers C09J 109/00-C09J 121/00) [5]
135/04	• Homopolymers or copolymers of nitriles (C09J 135/06, C09J 135/08 take precedence) [5]	149/00	Adhesives based on homopolymers or copolymers of
135/06 135/08	Copolymers with vinyl aromatic monomers [5]Copolymers with vinyl ethers [5]		compounds having one or more carbon-to-carbon triple bonds; Adhesives based on derivatives of such polymers [5]

151/00	Adhesives based on graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds	161/18	 Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only [5]
	(based on ABS polymers C09J 155/02); Adhesives based on derivatives of such polymers [5]	161/20	Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to
151/02	• grafted on to polysaccharides [5]		nitrogen (with amino phenols C09J 161/04) [5]
151/04	• grafted on to rubbers [5]	161/22	of aldehydes with acyclic or carbocyclic
151/06	 grafted on to homopolymers or copolymers of 		compounds [5]
	aliphatic hydrocarbons containing only one carbon-	161/24	• • • with urea or thiourea [5]
	to-carbon double bond [5]	161/26	• • of aldehydes with heterocyclic compounds [5]
151/08	 grafted on to macromolecular compounds obtained 	161/28	• • • with melamine [5]
	otherwise than by reactions only involving carbon-to- carbon unsaturated bonds [5]	161/30	 of aldehydes with heterocyclic and acyclic or carbocyclic compounds [5]
151/10	 grafted on to inorganic materials [5] 	161/32	Modified amine-aldehyde condensates [5]
153/00	Adhesives based on block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon	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]
	unsaturated bonds; Adhesives based on derivatives of such polymers [5]	163/00	Adhesives based on epoxy resins; Adhesives based on derivatives of epoxy resins [5]
153/02	 Vinyl aromatic monomers and conjugated dienes [5] 	163/02	Polyglycidyl ethers of bis-phenols [5]
		163/02	Epoxynovolacs [5]
155/00	Adhesives based on homopolymers or copolymers,	163/04	Triglycidylisocyanurates [5]
	obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided	163/08	Epoxidised polymerised polyenes [5]
	for in groups C09J 123/00-C09J 153/00 [5]	163/10	 Epoxy resins modified by unsaturated compounds [5]
155/02	ABS [Acrylonitrile-Butadiene-Styrene] polymers [5]	100710	
155/04	• Polyadducts obtained by the diene synthesis [5]		Note(s)
			In groups C09J 165/00-C09J 185/00, in the absence of
157/00	Adhesives based on unspecified polymers obtained		an indication to the contrary, adhesives based on
	by reactions only involving carbon-to-carbon		macromolecular compounds obtained by reactions forming two different linkages in the main chain are
157/02	unsaturated bonds [5]		classified only according to the linkage present in
157/02	Copolymers of mineral oil hydrocarbons [5]Copolymers in which only the monomer in minority		excess.
15//04	is defined [5]		
157/06	Homopolymers or copolymers containing elements	165/00	Adhesives based on macromolecular compounds
	other than carbon and hydrogen [5]		obtained by reactions forming a carbon-to-carbon
157/08	containing halogen atoms [5]		link in the main chain (C09J 107/00-C09J 157/00, C09J 161/00 take precedence); Adhesives based on
157/10	containing oxygen atoms [5]		derivatives of such polymers [5]
157/12	 containing nitrogen atoms [5] 	165/02	• Polyphenylenes [5]
		165/04	Polyxylylenes [5]
	es based on organic macromolecular compounds otherwise than by reactions only involving carbon-to-	167/00	Adhesives based on polyesters obtained by reactions
	unsaturated bonds [5]		forming a carboxylic ester link in the main chain (based on polyester-amides C09J 177/12; based on
			polyester-imides C09J 179/08); Adhesives based on
159/00	Adhesives based on polyacetals; Adhesives based on		derivatives of such polymers [5]
	derivatives of polyacetals [5]	167/02	Polyesters derived from dicarboxylic acids and
159/02	Polyacetals containing polyoxymethylene sequences		dihydroxy compounds (C09J 167/06 takes
450704	only [5]		precedence) [5]
159/04	 Copolyoxymethylenes [5] 	167/03	 the dicarboxylic acids and dihydroxy compounds
161/00	Adhesives based on condensation polymers of		having the hydroxy and the carboxyl groups
101/00	aldehydes or ketones (with polyalcohols C09J 159/00;		directly linked to aromatic rings [5]
	with polynitriles C09J 177/00); Adhesives based on	167/04	• Polyesters derived from hydroxy carboxylic acids,
	derivatives of such polymers [5]	167/06	e.g. lactones (C09J 167/06 takes precedence) [5]
161/02	 Condensation polymers of aldehydes or ketones only [5] 	167/06	Unsaturated polyesters having carbon-to-carbon unsaturation [5]
161/04	 Condensation polymers of aldehydes or ketones with phenols only [5] 	167/07	having terminal carbon-to-carbon unsaturated bonds [5]
161/06	 of aldehydes with phenols [5] 	167/08	Polyesters modified with higher fatty oils or their
161/08	• • • with monohydric phenols [5]		acids, or with natural resins or resin acids [5]
161/10	• • • • Phenol-formaldehyde condensates [5]	169/00	Adhesives based on polycarbonates; Adhesives based
161/12	• • • with polyhydric phenols [5]	100/00	on derivatives of polycarbonates [5]
161/14	• • Modified phenol-aldehyde condensates [5]		* - ^ r r r
161/16	• • of ketones with phenols [5]		
	E rea		

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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 C09J 163/00; based on polythioether-ethers	179/08	 Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors [5]
	C09J 181/02; based on polyethersulfones C09J 181/06); Adhesives based on derivatives of such polymers [5]	181/00	Adhesives based on macromolecular compounds 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		Adhesives based on polysulfones; Adhesives based on
	their metallic derivatives (C09J 171/02 takes	101/00	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]
	1 0	181/10	 Polysulfonamides; Polysulfonimides [5]
173/00	Adhesives based on macromolecular compounds	102/00	Allered as bounded as a second of the second of
	obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C09J 159/00-C09J 171/00;	183/00	Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon, with
	Adhesives based on derivatives of such polymers [5]		or without sulfur, nitrogen, oxygen, or carbon only;
173/02	Polyanhydrides [5]		Adhesives based on derivatives of such polymers [5]
175/02	1 oryannyanaes [5]	183/02	• Polysilicates [5]
175/00	Adhesives based on polyureas or polyurethanes;	183/04	• Polysiloxanes [5]
	Adhesives based on derivatives of such polymers [5]	183/05	 containing silicon bound to hydrogen [5]
175/02	• Polyureas [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		containing atoms other than carbon, hydrogen, and oxygen [5]
	isocyanate group [5]	183/10	 Block or graft copolymers containing polysiloxane
175/14	 Polyurethanes having carbon-to-carbon unsaturated bonds [5] 		sequences (obtained by polymerising a compound having a carbon-to-carbon double bond on to a
175/16	 having terminal carbon-to-carbon unsaturated 	100/10	polysiloxane C09J 151/08, C09J 153/00) [5]
	bonds [5]	183/12	 containing polyether sequences [5]
4== /00		183/14	• in which at least two but not all the silicon atoms are
177/00	Adhesives based on polyamides obtained by		connected by linkages other than oxygen atoms (C09J 183/10 takes precedence) [5]
	reactions forming a carboxylic amide link in the 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	103/10	linkages other than oxygen atoms [5]
	based on derivatives of such polymers [5]		mikages other than oxygen atoms [3]
177/02	Polyamides derived from omega-amino carboxylic	185/00	Adhesives based on macromolecular compounds
17770=	acids or from lactams thereof (C09J 177/10 takes		obtained by reactions forming in the main chain of
	precedence) [5]		the macromolecule a linkage containing atoms other
177/04	Polyamides derived from alpha-amino carboxylic		than silicon, sulfur, nitrogen, oxygen, and carbon;
	acids (C09J 177/10 takes precedence) [5]		Adhesives based on derivatives of such polymers [5]
177/06	 Polyamides derived from polyamines and 	185/02	 containing phosphorus [5]
	polycarboxylic acids (C09J 177/10 takes	185/04	 containing boron [5]
	precedence) [5]	40= 100	A 11
177/08	• • from polyamines and polymerised unsaturated fatty acids [5]	187/00	Adhesives based on unspecified macromolecular compounds, obtained otherwise than by
177/10	Polyamides derived from aromatically bound amino		polymerisation reactions only involving unsaturated
	and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids [5]		carbon-to-carbon-bonds [5]
177/12	• Polyester-amides [5]	Adhesive	es based on natural macromolecular compounds or on
			res thereof [5]
179/00	Adhesives based on macromolecular compounds		
	obtained by reactions forming in the main chain of	189/00	Adhesives based on proteins; Adhesives based on
	the macromolecule a linkage containing nitrogen,		derivatives thereof [5]
	with or without oxygen, or carbon only, not provided for in groups C09J 161/00-C09J 177/00 [5]	189/02	 Casein-aldehyde condensates [5]
179/02	• Polyamines [5]	189/04	 Products derived from waste materials, e.g. horn,
179/02	Polycondensates having nitrogen-containing		hoof or hair [5]
1/3/04	heterocyclic rings in the main chain; Polyhydrazides;	189/06	 derived from leather or skin [5]
	Polyamide acids or similar polyimide precursors [5]	404:	
179/06	Polyhydrazides; Polytriazoles; Polyamino-	191/00	Adhesives based on oils, fats or waxes; Adhesives
1,5,00	triazoles; Polyoxadiazoles [5]	101 /00	based on derivatives thereof [5]
	· · · · · · · · · · · · · · · · · · ·	191/02	• Vulcanised oils, e.g. factice [5]

191/04 191/06	Linoxyn [5]Waxes [5]	197/02	 Lignocellulosic material, e.g. wood, straw or bagasse [5]
191/08	• • Mineral waxes [5]	199/00	Adhesives based on natural macromolecular
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]		compounds or on derivatives thereof, not provided for in groups C09J 101/00-C09J 107/00 or C09J 189/00-C09J 197/00 [5]
193/02	Shellac [5]		
193/04	• Rosin [5]	201/00	Adhesives based on unspecified macromolecular compounds [5]
195/00	Adhesives based on bituminous materials, e.g. asphalt, tar or pitch [5]	201/02	 characterised by the presence of specified groups [5]
		201/04	 containing halogen atoms [5]

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

Note(s)

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

 "materials" includes compositions.

3/00	Materials not provided for elsewhere [2]	5/20	Antifreeze additives therefor, e.g. for radiator
3/10	 for sealing or packing joints or covers 		liquids [7]
3/12	 for stopping leaks, e.g. in radiators or in tanks 	8/00	Compositions for drilling of boreholes or wells;
3/14	 Anti-slip materials; Abrasives [4] 	0,00	Compositions for treating boreholes or wells, e.g. for
3/16	Anti-static materials [4]		completion or for remedial operations [2006.01]
3/18	 for application to surface to minimize adherence of 	8/02	Well-drilling compositions [2006.01]
	ice, mist or water thereto; Thawing or antifreeze		N () [D000.04]
2/20	materials for application to surfaces [4]		Note(s) [2006.01]
3/20	 as substitutes for glycerol in its non-chemical uses, e.g. as a base in toilet creams or ointments 		In groups C09K 8/03-C09K 8/38, in the absence of an
3/22	• for dust-laying or dust-absorbing [4]		indication to the contrary, classification is made in the
3/24	• for simulating ice or snow [4]	0.700	last appropriate place.
3/30	• for aerosols [4]	8/03	 Specific additives for general use in well-drilling compositions [2006.01]
3/32	• for treating liquid pollutants, e.g. oil, gasoline or fat	8/035	-
5/52	(processes for making harmful chemical substances	8/04	 Aqueous well-drilling compositions [2006.01]
	harmless or less harmful, by effecting a chemical	8/05	• • containing inorganic compounds only, e.g.
	change in the substances A62D 3/00)	0/05	mixtures of clay and salt [2006.01]
5/00	Heat-transfer, heat-exchange or heat-storage	8/06	Clay-free compositions (containing inorganic)
5/00	materials, e.g. refrigerants; Materials for the		compounds only C09K 8/05) [2006.01]
	production of heat or cold by chemical reactions	8/08	 containing natural organic compounds, e.g.
	other than by combustion [2]		polysaccharides, or derivatives
5/02	 Materials undergoing a change of physical state when 	0 /10	thereof [2006.01]
	used (C09K 5/16, C09K 5/20 take precedence) [2]	8/10	• • • • Cellulose or derivatives thereof [2006.01]
5/04	 the change of state being from liquid to vapour or 	8/12	• • • containing synthetic organic macromolecular compounds or their precursors [2006.01]
	vice-versa [2]	8/14	Clay-containing compositions (containing)
5/06	the change of state being from liquid to solid or	0/14	inorganic compounds only
F /00	vice-versa [2]		C09K 8/05) [2006.01]
5/08	 Materials not undergoing a change of physical state when used (C09K 5/16, C09K 5/20 take 	8/16	• • • characterised by the inorganic compounds
	precedence) [7]		other than clay [2006.01]
5/10	• Liquid materials [7]	8/18	 characterised by the organic
5/12	Molten materials, i.e. materials solid at room		compounds [2006.01]
	temperature, e.g. metals or salts [7]	8/20	• • • • Natural organic compounds or derivatives
5/14	Solid materials, e.g. powdery or granular [7]		thereof, e.g. polysaccharides or lignin
5/16	Materials undergoing chemical reactions when	8/22	derivatives [2006.01]
	used [7]		• • • • Synthetic organic compounds [2006.01]• • • • Polymers [2006.01]
5/18	 Non-reversible chemical reactions [7] 	8/24	
		8/26	• • • Oil-in-water emulsions [2006.01]

8/28	•	• • containing organic additives [2006.01]	8/584	 characterised by the use of specific
8/32	•	Non-aqueous well-drilling compositions, e.g. oil-	0.4=00	surfactants [2006.01]
0./2.4		based [2006.01]	8/588	• • characterised by the use of specific
8/34	•	• • Organic liquids [2006.01]	8/592	polymers [2006.01]Compositions used in combination with generated
8/36 8/38	•	Water-in-oil emulsions [2006.01] Cassays or formed well drilling	0/332	heat, e.g. by steam injection [2006.01]
	٠	 Gaseous or foamed well-drilling compositions [2006.01] 	8/594	 Compositions used in combination with injected
8/40	•	Spacer compositions, e.g. compositions used to	8/60	gas (C09K 8/592 takes precedence) [2006.01] • Compositions for stimulating production by acting on
		separate well-drilling from cementing masses [2006.01]		the underground formation [2006.01]
8/42	•	Compositions for cementing, e.g. for cementing	8/62	Compositions for forming crevices or
		casings into boreholes; Compositions for plugging,	0./64	fractures [2006.01]
		e.g. for killing wells (compositions for plastering borehole walls C09K 8/50) [2006.01]	8/64	• • • Oil-based compositions [2006.01]
8/44		• containing organic binders only [2006.01]	8/66	• • Compositions based on water or polar solvents (C09K 8/64 takes precedence) [2006.01]
8/46		• containing inorganic binders, e.g. Portland	8/68	• • • containing organic compounds [2006.01]
0/ 10		cement [2006.01]	8/70	• • characterised by their form or by the form of
8/467	•	 containing additives for specific 		their components, e.g. foams [2006.01]
		purposes [2006.01]	8/72	• • • Eroding chemicals, e.g. acids [2006.01]
8/473	•	• • Density reducing additives, e.g. for	8/74	• • • combined with additives added for specific
		obtaining foamed cement		purposes [2006.01]
8/48		compositions [2006.01] • • • Density increasing or weighting	8/76	• • • • for preventing or reducing fluid
0/40	·	additives [2006.01]	8/78	loss [2006.01] • • • • for preventing sealing [2006.01]
8/487		• • Fluid loss control additives; Additives for	8/80	Compositions for reinforcing fractures, e.g.
		reducing or preventing circulation	0/00	compositions of proppants used to keep the
		loss [2006.01]		fractures open [2006.01]
8/493	•	Additives for reducing or preventing gas	8/82	 Oil-based compositions (C09K 8/64 takes
0./50		migration [2006.01]		precedence) [2006.01]
8/50	•	Compositions for plastering borehole walls, i.e. compositions for temporary consolidation of borehole	8/84	Compositions based on water or polar solvents
		walls [2006.01]		(C09K 8/66, C09K 8/82 take
8/502		Oil-based compositions [2006.01]	8/86	precedence) [2006.01] • • containing organic compounds [2006.01]
8/504		Compositions based on water or polar solvents	8/88	• • • macromolecular compounds [2006.01]
		(C09K 8/502 takes precedence) [2006.01]	8/90	• • • • of natural origin, e.g. polysaccharides,
8/506	•	• • containing organic compounds [2006.01]	0/30	cellulose [2006.01]
8/508	•	• • • macromolecular compounds [2006.01]	8/92	 characterised by their form or by the form of their
8/512	•	• • • containing cross-linking agents [2006.01]		components, e.g. encapsulated material
8/514	•	• • • of natural origin, e.g. polysaccharides,		(C09K 8/70 takes precedence) [2006.01]
		cellulose (C09K 8/512 takes	8/94	• • • Foams [2006.01]
8/516		precedence) [2006.01]characterised by their form or by the form of their	9/00	Tenebrescent materials, i.e. materials for which the
0/310	٠	components, e.g. encapsulated material [2006.01]	3700	range of wavelengths for energy adsorption is
8/518		• Foams [2006.01]		changed as a result of excitation by some form of
8/52		Compositions for preventing, limiting or eliminating		energy [2]
		depositions, e.g. for cleaning [2006.01]	9/02	 Organic tenebrescent materials [2]
8/524	•	 organic depositions, e.g. paraffins or 	11/00	Luminescent, e.g. electroluminescent,
		asphaltenes [2006.01]	11/00	chemiluminescent, materials [2]
8/528	•	• inorganic depositions, e.g. sulfates or	11/01	Recovery of luminescent materials [3]
8/532		carbonates [2006.01] • Sulfur [2006.01]	11/02	• Use of particular materials as binders, particle
8/536		• characterised by their form or by the form of their		coatings or suspension media therefor [2]
0/330		components, e.g. encapsulated material [2006.01]	11/04	• containing natural or artificial radioactive elements or
8/54	•	Compositions for <u>in situ</u> inhibition of corrosion in	11/06	unspecified radioactive elements [2]containing organic luminescent materials [2]
		boreholes or wells [2006.01]	11/00	having chemically-interreactive components, e.g.
8/56	•	Compositions for consolidating loose sand or the like	11/0/	reactive chemiluminescent compositions [3]
		around wells without excessively decreasing the	11/08	• containing inorganic luminescent materials [2]
8/565		permeability thereof [2006.01] Oil-based compositions [2006.01]		
8/57		Compositions based on water or polar solvents		Note(s)
5, 5,		(C09K 8/565 takes precedence) [2006.01]		In groups C09K 11/54-C09K 11/89, in the absence of an indication to the contrary, materials are classified in the
8/575	•	• • containing organic compounds [2006.01]		indication to the contrary, materials are classified in the last appropriate place; however, activating constituents
8/58	•	Compositions for enhanced recovery methods for		of the luminescent materials are disregarded for
		obtaining hydrocarbons, i.e. for improving the		classification purposes.
0./500		mobility of the oil, e.g. displacing fluids [2006.01]	11/54	 containing zinc or cadmium [4]
8/582	•	characterised by the use of bacteria [2006.01]		

11/55	containing beryllium, magnesium, alkali metals or		2. In groups C09K 15/02-C09K 15/34, a metal salt
	alkaline earth metals [4]		of an organic compound is classified as that
11/56	• • containing sulfur [4]	15 /00	compound.
11/57	containing manganese or rhenium [4]	15/02	containing inorganic compounds [2]
11/58	• • containing copper, silver or gold [4]	15/04	containing organic compounds [2]
11/59	 containing silicon [4] 	15/06	containing oxygen [2]
11/60	 containing iron, cobalt or nickel [4] 	15/08	• • • containing a phenol or quinone moiety [2]
11/61	 containing fluorine, chlorine, bromine, iodine or 	15/10	 containing sulfur [2]
	unspecified halogen elements [4]	15/12	 containing sulfur and oxygen [2]
11/62	 containing gallium, indium or thallium [4] 	15/14	 containing a phenol or quinone moiety [2]
11/63	 containing boron [4] 	15/16	 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 nitrogen and oxygen [2]
11/66	 containing germanium, tin or lead [4] 	15/22	 containing an amide or imide moiety [2]
11/67	 containing refractory metals [4] 	15/24	 containing a phenol or quinone moiety [2]
11/68	 containing chromium, molybdenum or 	15/26	 containing nitrogen and sulfur [2]
	tungsten [4]	15/28	 containing nitrogen, oxygen and sulfur [2]
11/69	• • • containing vanadium [4]	15/30	 containing heterocyclic ring with at least one
11/70	 containing phosphorus [4] 		nitrogen atom as ring member [2]
11/71	 • also containing alkaline earth metals [4] 	15/32	 containing boron, silicon, phosphorus, selenium,
11/72	 • also containing halogen, e.g. 		tellurium or a metal [2]
	halophosphates [4]	15/34	 containing plant or animal materials of unknown
11/73	• • • also containing alkaline earth metals [4]		composition [2]
11/74	 containing arsenic, antimony or bismuth [4] 	17/00	Soil-conditioning materials or soil-stabilising
11/75	 containing antimony [4] 	17/00	materials [3]
11/76	 • • • also containing phosphorus and halogen, e.g. 		
	halophosphates [4]		Note(s)
11/77	 containing rare earth metals [4] 		1. This group <u>covers</u> mixtures of soil-conditioning or
11/78	• • • containing oxygen [4]		soil-stabilising materials with fertilisers
11/79	containing silicon [4]		characterised by their soil-conditioning or soil-
11/80	 containing aluminium or gallium [4] 		stabilising activity.
11/81	 containing phosphorus [4] 		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 which are covered by subclass C05G.
11/84	 containing sulfur, e.g. oxysulfides [4] 		3. For the purpose of classification in this group, the
11/85	containing halogen [4]		presence of fertilisers in the composition is not
11/86	 containing oxygen and halogen, e.g. 		taken into account.
	oxyhalides [4]		4. In groups C09K 17/02-C09K 17/40, in the
11/87	 containing platinum group metals [4] 		absence of an indication to the contrary, materials
11/88	 containing selenium, tellurium or unspecified 		are classified in the last appropriate place.
	chalcogen elements [4]		5. In this group, it is desirable to add the indexing
11/89	 containing mercury [4] 	4= 400	codes of groups C09K 101/00-C09K 109/00.
40.400	T. 11. (1.11. 1.11. 1.11.	17/02	containing inorganic compounds only [6]
13/00	Etching, surface-brightening or pickling	17/04	applied in a physical form other than a solution or
	compositions [2]	15,000	a grout, e.g. as granules or gases [6]
	Note(s)	17/06	• • Calcium compounds, e.g. lime [6]
	In groups C09K 13/02-C09K 13/12, a composition is	17/08	Aluminium compounds, e.g. aluminium hydroxida [6]
	classified in the last appropriate place.	17/10	hydroxide [6] • Cements, e.g. Portland cement [6]
13/02	containing an alkali metal hydroxide [2]		
13/04	containing an inorganic acid [2]	17/12	• • Water-soluble silicates, e.g. waterglass [6]
13/06	with organic material [2]	17/14	• containing organic compounds only [6]
13/08	containing a fluorine compound [2]	17/16	• • applied in a physical form other than a solution or
13/10	• • containing a boron compound [2]	17/18	a grout, e.g. as platelets or granules [6]• Prepolymers; Macromolecular compounds [6]
13/12	containing heavy metal salts in an amount of at least	17/18	Vinyl polymers [6]
	50% of the non-solvent components [2]	17/20	• • • Polyacrylates; Polymethacrylates [6]
	•	17/24	Polyacrylates, Polymetriacrylates [6] Condensation polymers of aldehydes or
15/00	Anti-oxidant compositions; Compositions inhibiting	1//24	ketones [6]
	chemical change [4]	17/26	• • • • Phenol-aldehyde condensation polymers [6]
		1//20	i inclior dideriyae condensation porymers [0]
	Note(s)	17/20	
	Note(s) 1. In groupe COOK 15/03 COOK 15/24 in the	17/28 17/30	• • • • Urea-aldehyde condensation polymers [6]
	1. In groups C09K 15/02-C09K 15/34, in the	17/30	• • • Urea-aldehyde condensation polymers [6]• • Polyisocyanates; Polyurethanes [6]
	1. In groups C09K 15/02-C09K 15/34, in the absence of an indication to the contrary, a	17/30 17/32	 • • • Urea-aldehyde condensation polymers [6] • • Polyisocyanates; Polyurethanes [6] • • of natural origin, e.g. cellulosic materials [6]
	1. In groups C09K 15/02-C09K 15/34, in the	17/30	• • • Urea-aldehyde condensation polymers [6]• • Polyisocyanates; Polyurethanes [6]

C09K			
17/36	Compounds having one or more carbon-to-silicon linkages [6]	19/40	containing elements other than carbon, hydrogen, halogen, oxygen, nitrogen or sulfur, e.g. silicon,
17/38	• • • Siloxanes [6]	19/42	metals [4]
17/40	 containing mixtures of inorganic and organic compounds [6] 	19/42	Mixtures of liquid crystal compounds covered by two or more of the preceding groups C09K 19/06-
17/42	 Inorganic compounds mixed with organic active ingredients, e.g. accelerators [6] 		C09K 19/40 [4] Note(s)
17/44	 the inorganic compound being cement [6] 		
17/46	• • the inorganic compound being a water-soluble silicate [6]		 This group does not cover mixtures containing two or more liquid crystal compounds covered individually by the same one of groups
17/48	 Organic compounds mixed with inorganic active ingredients, e.g. polymerisation catalysts [6] 		C09K 19/04-C09K 19/40 which are classified only in that group.
17/50	• • • the organic compound being of natural origin, e.g. cellulose derivatives [6]		2. If liquid crystal components of the mixtures classified in this group are of interest as such, they
17/52	• Mulches [6]		are also classified according to the compounds in groups C09K 19/04-C09K 19/40.
19/00	Liquid crystal materials [4] Note(s)	19/44	• • containing compounds with benzene rings directly linked [4]
		19/46	• • • containing esters [4]
	In groups C09K 19/02-C09K 19/52 in the absence of an indication to the contrary, materials are classified in the	19/48	 containing Schiff bases [4]
19/02	last appropriate place. • characterised by optical, electrical or physical	19/50	• • containing steroidal liquid crystal compounds [4]
19/04	properties of the components, in general [4]	19/52	 characterised by components which are not liquid crystals, e.g. additives [4]
19/04	 characterised by the chemical structure of the liquid crystal components [4] 	19/54	 Additives having no specific mesophase [4]
19/06	Non-steroidal liquid crystal compounds [4]	19/56	Aligning agents [4]
19/08	• • • containing at least two non-condensed rings [4]	19/58	 Dopants or charge transfer agents [4]
19/10	• • • containing at least two benzene rings [4]	19/60	 Pleochroic dyes [4]
19/12	• • • • at least two benzene rings directly linked, e.g. biphenyls [4]	21/00	Fireproofing materials [4]
19/14	• • • • linked by a carbon chain [4]		Note(s)
19/16	• • • • • the chain containing carbon-to-carbon double bonds, e.g. stilbenes [4]		In groups C09K 21/02-C09K 21/14, in the absence of an indication to the contrary, materials are classified in
19/18	• • • • • the chain containing carbon-to-carbon		the last appropriate place.
	triple bonds, e.g. tolans [4]	21/02	 Inorganic materials [4]
19/20	• • • • linked by a chain containing carbon and	21/04	 containing phosphorus [4]
	oxygen atoms as chain links, e.g. esters [4]	21/06	Organic materials [4]
19/22	• • • • • linked by a chain containing carbon and	21/08	 containing halogen [4]
13/22	nitrogen atoms as chain links, e.g. Schiff	21/10	 containing nitrogen [4]
	bases [4]	21/12	 containing phosphorus [4]
19/24	• • • • linked by a chain containing nitrogen-to- nitrogen bonds [4]	21/14	Macromolecular materials [4]
19/26	• • • • • Azoxy compounds [4]	Indovina	scheme associated with group C09K 17/00, relating to
19/28	• • • • linked by a chain containing carbon and sulfur atoms as chain links, e.g. thioesters [4]	the use o	r the intended effect of the soil-conditioning or soil- g materials. [6]
19/30	• • • containing saturated or unsaturated non- aromatic rings, e.g. cyclohexane rings [4]	101/00	Agricultural use [6]
19/32	• • containing condensed ring systems, i.e. fused, bridged or spiro ring systems [4]	103/00	Civil engineering use [6]
19/34	• • containing at least one heterocyclic ring [4]	105/00	Erosion prevention [6]
19/36 19/38	• Steroidal liquid crystal compounds [4]• Polymers, e.g. polyamides [4]	107/00	Impermeabilisation [6]

109/00

pH regulation [6]