CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

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

C09B ORGANIC DYES OR CLOSELY-RELATED COMPOUNDS FOR PRODUCING DYES

{, e.g. PIGMENTS}; MORDANTS; LAKES (fermentation or enzyme using processes to synthesise a desired chemical compound <u>C12P</u>)

NOTE

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

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: C09B 23/01 C09B 23/0008 - C09B 23/0091 covered by C09B 29/01 covered by C09B 29/0003 - C09B 29/0022 C09B 29/03 covered by C09B 29/0007 C09B 29/033 covered by C09B 29/0025 C09B 29/036 covered by C09B 29/0029 C09B 29/039 C09B 29/0074 - C09B 29/0081 covered by covered by C09B 29/0085 C09B 29/042 C09B 29/045 C09B 29/0088 covered by C09B 29/048 covered by C09B 29/0092 C09B 29/0003, C09B 29/0801 - C09B 29/0848 C09B 29/085 covered by C09B 29/0025, C09B 29/0801 - C09B 29/0848 C09B 29/09 covered by C09B 29/15 covered by C09B 29/103 C09B 29/40 covered by C09B 29/3608 - C09B 29/3613 C09B 29/42 covered by C09B 29/3617 - C09B 29/3639 C09B 29/44 covered by C09B 29/3643 C09B 29/46 covered by C09B 29/3652 C09B 29/48 covered by C09B 29/3656 C09B 29/50 covered by C09B 29/366 C09B 29/52 covered by C09B 29/3665 C09B 33/13 covered by C09B 33/12 C09B 67/02 covered by C09B 67/0097 C09B 67/04 covered by C09B 67/0001 C09B 67/06 covered by C09B 67/0003 C09B 67/08 covered by C09B 67/0004 C09B 67/10 covered by C09B 67/0014 covered by C09B 67/12 C09B 67/0016 C09B 67/14 covered by C09B 67/0017 C09B 67/16 covered by C09B 67/0019 C09B 67/18 covered by C09B 67/002 covered by C09B 67/20 C09B 67/006 covered by C09B 67/22 C09B 67/0033 C09B 67/24 covered by C09B 67/0072 C09B 67/26 covered by C09B 67/0073 C09B 67/28 covered by C09B 67/0077 C09B 67/30 C09B 67/0078 covered by C09B 67/32 covered by C09B 67/0075 C09B 67/34 covered by C09B 67/0076 C09B 67/36 covered by C09B 67/0079 C09B 67/38 covered by C09B 67/008 C09B 67/40 covered by C09B 67/0082 C09B 67/42 covered by C09B 67/0071

Anthracene dyes C09B

C09B

C09B					
(continued)	C09B 67/44	covered by		<u>C</u>	09B 67/0083
	C09B 67/46	covered by		<u>C</u>	<u>09B 67/0084</u>
	C09B 67/48	covered by		<u>C</u>	09B 67/0025
	C09B 67/50	covered by		C	09B 67/0026
	C09B 67/52	covered by		<u>C</u>	09B 67/0027
	C09B 67/54	covered by		<u>C</u>	09B 67/0096
Anthracene	<u>dyes</u>	1/3	325	· • • •	• {Dyes with no other substituents than the
1/00	Dyes with anthracene nucleus not condensed vany other ring	1/3			amino groups } . sulfonated
1/002	• {containing onium groups}	1/3	343 .		• • {only sulfonated in the anthracene
1/005	• {Di-anthraquinonyl and derivative compounds	ì			nucleus}
1/007	• {Seleno-anthraquinones}	1/3			• {only sulfonated in a substituent}
1/02	 Hydroxy-anthraquinones; Ethers or esters there 	1/3			yes with acylated amino groups
1/02	{(C09B 1/007 takes precedence)}	1/3	363		{the acyl groups being residues of a
1/04	 Preparation by synthesis of the nucleus 				dicarboxylic compound forming a bridge
	Preparation by synthesis of the nucleus Preparation from starting materials already				between two anthraquinones}
1/06		1/3	366 .		{Urethan derivatives}
1 /00	containing the anthracene nucleus	1/3	38.		Urea and thiourea derivatives
1/08	Dyes containing only OH-groups	1/4	40 .		the acyl groups being residues of an aliphatic
1/10	Dyes containing halogen				or araliphatic carboxylic acid
1/12	Dyes containing sulfonic acid groups	1/4	405 .		• {dicarboxylic}
1/14	Dyes containing ether groups	1/4	42 .		the acyl groups being residues of an aromatic
1/16	• Amino-anthraquinones {(<u>C09B 1/007</u> takes				carboxylic acid
	precedence)}	1/4	425 .		• {dicarboxylic}
1/18	Preparation by synthesis of the nucleus	1/4			Dicarboxylic acids
1/20	• • Preparation from starting materials already	1/4			the acyl groups being residues of a
	containing the anthracene nucleus				heterocyclic carboxylic acid
1/201	• • {Dyes with no other substituents than the	1/4	445 .		• {dicarboxylic}
	amino groups}	1/4			the acyl groups being residues of cyanuric
1/202	• • {sulfonated}	1,			acid or an analogous heterocyclic compound
1/203	• • • {only sulfonated in the anthracene nucl	eus} 1/4	467		attached to two or more anthraquinone
1/204	• • • {only sulfonated in a substituent}		,		rings
1/205	{Dyes with an unsaturated C on the N ato	m 1/4	473 .		the acyl groups being residues of a sulfonic
	attached to the nucleus (C=O and C=S,		.,,,		acid
	<u>C09B 1/36</u>)}	1/4	48	A	anthrimides
1/206	• • • {Dyes with amino groups substituted by	1/5			o-hydroxy-anthraquinones; Ethers and esters
	heterocyclic radicals (triazinic or analogo	us	•		f {(C09B 1/007 takes precedence)}
	heterocyclic radical, <u>C09B 1/46</u>)}	1/5	501 .		ntaining onium groups}
1/207	• • • {Dyes with amino groups and with onium				ubstituted amino-hydroxy anthraquinone
	groups}				only amino and hydroxy groups}
1/208	• • • {Dyes with amino groups substituted by	1/5			ubstituted amino-hydroxy anthraquinone
	inorganic radicals}				only amino and hydroxy groups}
1/22	• • Dyes with unsubstituted amino groups				I-aryl derivatives (N-aralkyl derivatives
1/24	sulfonated	1/3	514 .		(19B 1/515)
1/26	Dyes with amino groups substituted by	1 /6	5145		
	hydrocarbon radicals				{only amino and hydroxy groups}
1/262	{Dyes with no other substituents than the	ne			I-alkyl, N-aralkyl or N-cycloalkyl derivatives
	substituted amino groups}				{only amino and hydroxy groups}
1/264	• • • {sulfonated}				l-acylated derivatives
1/266	• • • • {only sulfonated in the anthracene				{only amino and hydroxy groups}
	nucleus}	1/5		. sulf	
1/268	• • • • {only sulfonated in a substituent}				unsubstituted amino and hydroxy groups}
1/28	substituted by alkyl, aralkyl or cyclo all	kyl 1/5	523		N-substituted amino and hydroxy
	groups	•			nthraquinone}
1/285	• • • • {Dyes with no other substituents than	n the 1/5	525		{N-aryl derivatives}
	amino groups}		526 .		{N-alkyl, N-aralkyl or N-cycloalkyl
1/30	sulfonated				derivatives}
1/303	• • • • • • • • • • • • • • • • • • •	1/5	528		{N-acyl derivatives}
2,303	nucleus}	1/5		. ethe	
1/306	• • • • • {only sulfonated in a substituent}	1/5	542	{	Anthraquinones with aliphatic, cycloaliphatic,
1/32	substituted by aryl groups (anthrimides				raliphatic or aromatic ether groups}
1/32	<u>C09B 1/48</u>)				
	<u>C07D 1/40</u>)				

Anthracene dyes C09B

1/5/5	(A a)	2/50	Decreased in his south six of the modern
1/545	 • {Anthraquinones with aliphatic, cycloaliphatic or araliphatic ether groups} 	3/52 3/54	. Preparation by synthesis of the nucleus. Preparation from starting materials already
1/547	• • • {Anthraquinones with aromatic ether groups}	3/34	containing the dibenzopyrenequinone nucleus
1/56	• Mercapto-anthraquinones {(C09B 1/007 takes	3/56	Amino derivatives
	precedence)}	3/58	. Benzanthraquinones
1/565	• • {Mercaptoanthraquinones containing onium	3/60	• Anthanthrones
	groups}	3/62	• Preparation by synthesis of the nucleus
1/58	• with mercapto groups substituted by aliphatic,	3/64	• • Preparation from starting materials already
	cycloaliphatic, araliphatic or aryl radicals		containing the anthanthrone nucleus
	NOTE	3/66	by halogenation
	After the notation of groups C09B 1/58,	3/68	Amino derivatives
	C09B 1/585, C09B 1/60 and separated	3/70	Benzo-, naphtho-, and anthra-dianthrones
	therefrom by a + sign, notations concerning	3/72	• Preparation by synthesis of the nucleus
	the nature of other substituents may be added.	3/74	Preparation from starting materials observed the bound markets or
	These notations are selected from the groups:		already containing the benzo, naphtho-, or anthradianthrone nucleus
	<u>C00B 1/02</u> .	3/76	by halogenation
	<u>C09B 1/16</u> . <u>C09B 1/22</u>	3/78	Other dyes in which the anthracene nucleus is
	C09B 1/28	3/10	condensed with one or more carbocyclic rings
	C09B 1/32	3/80	Preparation by synthesis of the nucleus
	C09B 1/36	3/82	Preparation from starting materials already
	<u>C09B 1/50</u> .		containing the condensed anthracene nucleus
	and have the same meaning as the	5 /00	D
	corresponding groups	5/00	Dyes with an anthracene nucleus condensed with one or more heterocyclic rings with or without
1/585	• • · {substituted by aryl radicals}		carbocyclic rings
1/60	substituted by aliphatic, cycloaliphatic or	5/002	• {the heterocyclic rings being condensed in peri
17 00	araliphatic radicals	3,002	position and in 1-2 or 2-3 position}
1/62	with mercapto groups substituted by a	5/004	• • {only O-containing hetero rings}
	heterocyclic ring	5/006	• • {only S-containing hetero rings}
2/00	D	5/008	• • {only N-containing hetero rings}
3/00	Dyes with an anthracene nucleus condensed with one or more carbocyclic rings	5/02	 the heterocyclic ring being {only} condensed in peri
3/02	Benzathrones		position
3/04	Preparation by synthesis of the nucleus	5/022	• • { not provided for in one of the sub groups
3/04	Preparation from starting materials already		<u>C09B 5/04</u> - <u>C09B 5/20</u> }
3/00	containing the benzanthrone nucleus	5/024	• • • {only O-containing hetero rings}
3/08	by halogenation	5/026	• • • {only S-containing hetero rings}
3/10	Amino derivatives	5/028	• • {only N-containing hetero rings}
3/12	Dibenzanthronyls	5/04	Pyrazolanthrones
3/14	Perylene derivatives	5/06	Benzanthronyl-pyrazolanthrone condensation
3/16	Preparation by synthesis of the nucleus	5/08	products Dipyrazolanthrones
3/18	Preparation from starting materials already	5/085	{Condensation products of
	containing the perylene nucleus	3/063	dipyrazolanthrones}
3/20	by halogenation	5/10	Isothiazolanthrones; Isoxazolanthrones;
3/22	 Dibenzanthrones; Isodibenzanthrones 	5,10	Isoselenazolanthrones
3/24	Preparation by synthesis of the nucleus	5/12	Thiophenanthrones
3/26	from dibenzanthronyls	5/14	Benz-azabenzanthrones (anthrapyridones)
3/28	from perylene derivatives	5/16	Benz-diazabenzanthrones, e.g. anthrapyrimidones
3/30	. Preparation from starting materials	5/18	Coeroxene; Coerthiene; Coeramidene;
	already containing the dibenzanthrone or isodibenzanthrone nucleus		Derivatives thereof
3/32	by halogenation	5/20	Flavanthrones
3/34	by narogenation	5/22	• • • Preparation from starting materials already
3/34	by oxidation by etherification of hydroxy compounds		containing the flavanthrone nucleus
3/38	by entermeation of hydrocarbon or acyl residues	5/24	• the heterocyclic rings being {only} condensed with
2,20	into amino groups	5/2409	 an anthraquinone nucleus in 1-2 or 2-3 position foot provided for in one of the sub groups
3/40	• Pyranthrones	312707	C09B 5/26 - C09B 5/62}
3/42	Preparation by synthesis of the nucleus	5/2418	• • {only oxygen-containing hetero rings}
3/44	Preparation from starting materials already	5/2427	• • {only sulfur-containing hetero rings}
	containing the pyranthrone nucleus	5/2436	• • {only nitrogen-containing hetero rings}
3/46	by halogenation	5/2445	· · · {Phtaloyl isoindoles}
3/48	Amino derivatives	5/2454	• • • • {5,6 phtaloyl dihydro isoindoles}
3/50	. Dibenzopyrenequinones		

Anthracene dyes C09B

5/2463	• • • • {1,3 oxo or imino derivatives}	11/16	Preparation from diarylketones or
5/2472	• • • • • • {1,3 dioxo derivatives}		diarylcarbinols {, e.g. benzhydrol}
5/2481	• • • • • {1-oxo-3-imino derivatives}	11/18	Preparation by oxidation
5/249	• • • • {1,3 diimino derivatives}	11/20	Preparation from other triarylmethane derivatives {, e.g. by substitution, by
5/26	. Carbazoles of the anthracene series		replacement of substituents (for dyesalts of
5/28	Anthrimide carbazoles		triarylmethane dyes C09B 69/06)}
5/30	. 1,2 azoles of the anthracene series	11/22	containing OH groups bound to an aryl nucleus
5/32 5/34	1.3 azoles of the anthracene seriesAnthraquinone acridones or thioxanthrones		{and their ethers and esters}
5/342	{Anthraquinone acritories of unloxanthrones}	11/24	• • • Phthaleins containing amino groups {;
5/345	{Compounds containing thioxanthrone and		Phthalanes; Fluoranes; Phthalides; Rhodamine
3/343	carbazole rings}		dyes; Phthaleins having heterocyclic aryl rings;
5/347	{Anthraquinone acridones}		Lactone or lactame forms of triarylmethane dyes}
5/36	Amino acridones	11/245	• • • {Phthaleins having both OH and amino
5/38	Compounds containing acridone and carbazole	11/243	substituent(s) on aryl ring}
	rings	11/26	Triarylmethane dyes in which at least one of
5/40	Condensation products of benzanthronyl-		the aromatic nuclei is heterocyclic {(phthaleins
	amino-anthraquinones		<u>C09B 11/24</u>)}
5/42	Pyridino anthraquinones	11/28	• Pyronines {; Xanthon, thioxanthon, selenoxanthan,
5/44	. Azines of the anthracene series		telluroxanthon dyes}
5/46	Pirantharminan dining (indeptharm)	13/00	Oxyketone dyes
5/48 5/50	Bis-anthraquinonediazines (indanthrone) Preparation by alkaline melting of 2-	13/02	of the naphthalene series, e.g. naphthazarin
3/30	amino-anthraquinones	13/04	• of the pyrene series
5/52	Preparation by condensation of 1.2-	13/06	• of the acetophenone series
	halogeno-amino-anthraquinones		
5/54	Preparation from 2-amino-	Acridine, azi	ne, oxazine, or thiazine dyes
	anthrahydroquinones	15/00	Acridine dyes
5/56	Preparation from starting materials already	15/00	•
	containing the indanthrene nucleus	17/00 17/005	Azine dyes • {Dyes containing at least four ortho-condensed
5/58	by halogenation	17/003	rings with at least two ring N-atoms in the system,
5/60	Thiazines; Oxazines		e.g. fluorlavine, fluorubine, fluorindine}
5/62	 Cyclic imides or amidines of peri-dicarboxylic acids of the anthracene, benzanthrene, or perylene series 	17/02	• of the benzene series
	of the antiffacene, benzammene, of peryiene series	17/04	• of the naphthalene series
6/00	Anthracene dyes not provided for above	17/06	 Fluorindine or its derivatives
7/00	Indigoid dyes	19/00	Oxazine dyes
7/02	Bis-indole indigos	19/005	• {Gallocyanine dyes}
7/04	Halogenation thereof	19/02	Bisoxazines prepared from aminoquinones
7/06	 Indone-thionapthene indigos 		
7/08	• Other indole-indigos	21/00	Thiazine dyes
7/10	Bis-thionapthene indigos	Ouinoline or	polymethine dyes
7/12	• Other thionaphthene indigos		
9/00	Esters or ester-salts of leuco compounds of vat	23/00	Methine or polymethine dyes, e.g. cyanine dyes . {substituted on the polymethine chain}
	dyestuffs	23/0008 23/0016	. {substituted on the polymetrine chain}. {the substituent being a halogen atom}
9/02	. of anthracene dyes	23/0016	the substituent being a naiogen atom;{the substituent being bound through an oxygen
9/04	 of indigoid dyes 	23/0023	atom}
11/00	Diaryl- or thriarylmethane dyes	23/0033	• • {the substituent being bound through a sulfur
11/02	derived from diarylmethanes		atom}
11/04	derived from triarylmethanes {, i.e. central C-atom	23/0041	• • {the substituent being bound through a nitrogen
	is substituted by amino, cyano, alkyl}		atom}
11/06	Hydroxy derivatives of triarylmethanes in which	23/005	• • {the substituent being a COOH and/or a
	at least one OH group is bound to an aryl nucleus	22/0050	functional derivative thereof}
11/00	{and their ethers or esters}	23/0058	{the substituent being CN}
11/08	• • • Phthaleins; {Phenolphthaleins; Fluorescein}	23/0066	• {the polymethine chain being part of a carbocyclic ring,(e.g. benzene, naphtalene, cyclohexene,
11/10	Amino derivatives of triarylmethanes		cyclobutenene-quadratic acid)}
11/12 11/14	 without any OH group bound to an aryl nucleus Preparation from aromatic aldehydes, 	23/0075	• {the polymethine chain being part of an heterocyclic
11/14	aromatic carboxylic acids or derivatives	<i></i>	ring}
	thereof and aromatic amines	23/0083	• • {the heteroring being rhodanine in the chain}

23/0091	• {having only one heterocyclic ring at one end of	27/06	Tartrazines
	the methine chain, e.g. hemicyamines, hemioxonol (styryl dyes see C09B 23/14)}	29/00	Monoazo dyes prepared by diazotising and
23/02	. the polymethine chain containing an odd number of	29/0003	<pre>coupling . {from diazotized anilines}</pre>
23/04	>CH- {or >C[alkyl]-} groups • one >CH- group, e.g. cyanines, isocyanines,	29/0003	 {non diazotized animies} {containing acid groups, e.g. CO₂H, SO₃H, PO₃H₂, OSO₃H, OPO₂H₂; Salts thereof}
23/06	pseudocyanines • three >CH- groups, e.g. carbocyanines	29/0011	• • {from diazotized anilines directly substituted by a
23/08	• • more than three >CH- groups, e.g.	20/0014	heterocyclic ring (not condensed)}
	polycarbocyanines	29/0014 29/0018	• {from diazotized aminonaphthalene}
23/083	• • · · {five >CH- groups}	29/0018	• {from diagotized aminopolycyclic rings}
23/086	• • • {more than five >CH- groups}	29/0022	. {from diazotized aminoanthracene}. {from diazotized amino heterocyclic compounds}
23/10	 The polymethine chain containing an even number of >CH- groups {(styryl dyes <u>C09B 23/14</u>, <u>C09B 23/14</u> takes precedence)} 	29/0029	{ the heterocyclic ring containing only nitrogen as heteroatom}
23/102	• • {two heterocyclic rings linked carbon-to-carbon (C09B 7/00 takes precedence)}	29/0033	• • • {containing a five-membered heterocyclic ring with one nitrogen atom}
23/105	• • {two >CH- groups}	29/0037	• • • {containing a five-membered heterocyclic ring
23/107	• • {four >CH- groups}		with two nitrogen atoms}
23/12	the polymethine chain being branched {"branched" means that the substituent on the polymethine chain	29/004	• • • {containing a five-membered heterocyclic ring with three nitrogen atoms}
	forms a new conjugated system, e.g. most trinuclear cyanine dyes}	29/0044	• • • {containing a five-membered heterocyclic ring with four nitrogen atoms}
23/14	. Styryl dyes	29/0048	{containing a six-membered heterocyclic ring
23/141	• • {Bis styryl dyes containing two radicals C ₆ H ₅ -CH=CH-}	29/0051	with one nitrogen atom} {containing a six-membered heterocyclic ring with two nitrogen atoms}
23/143	• • {the ethylene chain carrying a COOH or a functionally modified derivative, e.gCN, -COR,	29/0055	 • {the heterocyclic ring containing only oxygen as heteroatom}
23/145	-COOR, -CON=, C ₆ H ₅ -CH=C-CN} • the ethylene chain carrying an heterocyclic	29/0059	• • {the heterocyclic ring containing only sulfur as
23/143	residue, e.g. heterocycle-CH=CH-C ₆ H ₅ }		heteroatom}
23/146	• • • {(Benzo)thiazolstyrylamino dyes}	29/0062	• • {the heterocyclic ring containing nitrogen and
23/148	{Stilbene dyes containing the moiety $-C_6H_5$ -	20/0066	oxygen as heteroatoms}
	CH=CH- C_6H_5 (stilbene azo dyes <u>C09B 29/00</u>)}	29/0066	• • • {containing a five-membered heterocyclic ring with nitrogen and oxygen atoms}
23/16 23/162	 the polymethine chain containing hetero atoms {only nitrogen atoms (azomethine dyes 	29/007	• • • {containing a six-membered heterocyclic ring
23/102	C09B 55/00, e.g. those of formula aryl-CH=N-	29/0074	with nitrogen and oxygen atoms} • {the heterocyclic ring containing nitrogen and
	aryl; formazan dyes <u>C09B 50/00</u> , e.g. dyes containing the moiety -N-N=CR-N=N-)}	_,,,,,,,,,	sulfur as heteroatoms}
23/164	{containing one nitrogen atom}	29/0077	{containing a five-membered heterocyclic
23/166	• • • (containing two or more nitrogen atoms (hydrazon dyes -CH=N-N- C09B 26/02))		ring with one nitrogen and one sulfur as heteroatoms}
23/168	• • {containing only phosphorus atoms, i.e.	29/0081	• • • • {Isothiazoles or condensed isothiazoles}
23/100	phosphacyanine}	29/0085	• • • • {Thiazoles or condensed thiazoles}
		29/0088	• • • • {Benzothiazoles}
25/00	Quinophthalones	29/0092	• • • {containing a five-membered heterocyclic
26/00	Hydrazone dyes; Triazene dyes		ring with two nitrogen and one sulfur as
26/02	• Hydrazone dyes (hydrazone-azo dyes <u>C09B 56/18</u>)	20/0005	heteroatoms}
26/04	cationic	29/0096	{from other diazotized amino heterocyclic rings}
26/06	• Triazene dyes (triazene-azo dyes <u>C09B 56/20</u>)	29/02 29/06	 from diazotised o-amino-hydroxy compounds from coupling components containing amino as the
Azo dyes		20/065	only directing group
NOTE		29/065 29/08	. {containing water solubilizing groups}. Amino benzenes
In groups	C09B 27/00 - C09B 45/00, arrows in the formulae	29/0801	{containing acid groups, e.g. COOH, SO ₃ H,
of the vari	ous types of azo dyes indicate which part of an azo red by diazotising and coupling, is derived from the	27/0001	PO ₃ H ₂ , OSO ₃ H, OPO ₃ H ₂ ; SO ₂ NHSO ₂ R or salts thereof, R being hydrocarbonyls}
	ponent and which part is derived from the coupling	29/0802	{containing COOH}
	t. The arrow is pointing to the part derived from the	29/0802	{containing COOH} {containing SO ₃ H, OSO ₃ H}
	omponent.	29/0804	{containing PO ₃ H ₂ , OPO ₃ H ₂ }
		29/0805	{free of acid groups}
27/00	Preparations in which the azo group is formed in	29/0803	{characterised by the amino group}
	any way other than by diazotising and coupling,	29/0807	{unsubstituted amino group}
	{e.g. oxidation}	29/0808	{substituted amino group}
		27/0007	• • • • {substituted allimo group}

29/081	{unsubstituted alkylamino,	29/103 {of the naphthalene series}
	alkenylamino, alkynylamino,	29/106 {Hydroxy carboxylic acids of the naphthalene
	cycloalkylamino, aralkylamino or arylamino}	series}
29/0811		29/12 of the benzene series
29/0011	alkenylamino, alkynylamino,	29/14 Hydroxy carboxylic acids
	cycloalkylamino aralkylamino or	29/16 . Naphthol-sulfonic acids
	arylamino}	29/18 . ortho-Hydroxy carbonamides
29/0813	• • • • • • • • • • • • • • • • • • •	29/20 of the naphthalene series
	C(=X)-X-R, O-R (X being O,S,NR; R	29/22 of heterocyclic compounds
	being hydrocarbonyl)}	29/24 from coupling components containing both
29/0814	{substituted by N}	hydroxyl and amino directing groups
29/0815	{ substituted by -C(=O)-}	29/26 . Amino phenols
29/0816	{substituted by -COOR}	29/28 . Amino naphthols
29/0817	{having N(-aliphatic residue-	29/30 Amino naphtholsulfonic acid
	COOR)2 as substituents}	29/32 • from coupling components containing a reactive methylene group
29/0819	• • • • • • { substituted by -CON<}	29/322 • • {containing acid groups, e.g. COOH, SO ₃ H,
29/082	• • • • • { substituted by halogen }	PO ₃ H ₂ , OSO ₃ H, OPO ₂ H ₂ ; Salts thereof}
29/0821	• • • • • { substituted by SH, SR, SO2R,	29/325 • • {free of acid groups}
	SO2XR, SO2N}	29/327 {containing NCCH ₂ CON-aryl, NCOCH ₂ CON-
29/0822	• • • • • • {substituted by NO_2 }	aryl, ROC-CH ₂ CON-aryl}
29/0823	• • • • • {substituted by CN}	29/33 • • Aceto- or benzoylacetylarylides
29/0825	• • • • • • • {having N(-alkenylene-CN/-	29/331 {containing acid groups, e.g. COOH, SO ₃ H,
	alkynylene-CN)(-aliphatic residue-	PO ₃ H ₂ , OSO ₃ H ₂ , OPO ₂ H ₂ ; salts thereof}
	CN)}	29/332 {Carbocyclic arylides}
29/0826	{having N(-alkenylene/-	29/334 {Heterocyclic arylides, e.g.
	alkynylene-O)(-alkenylene/-	acetoacetylaminobenzimidazolone}
20/0927	alkynylene-CN)}	29/335 {free of acid groups}
29/0827	{having N(-alkenylene/-alkynylene-CO)(-alkenylene/-	29/337 {Carbocyclic arylides}
	alkynylene-CO)(-alkenylene/-alkynylene-CN)}	29/338 {Heterocyclic arylides, e.g.
29/0828		acetoacetylaminobenzimidazolone}
29/0829		29/34 • from other coupling components
27/0027	alkynylene-CN)(-alkenylene/-	29/36 from heterocyclic compounds
	alkynylene-CN)}	29/3604 {containing only a nitrogen as heteroatom}
29/083	• • • • • • {having -N< (in a ring)}	29/3608 {containing a five-membered heterocyclic
29/0832	{having -N-alkylene-heterocyclic	ring with only one nitrogen as heteroatom}
	ring}	29/3613 {from an indole}
29/0833	• • • {characterised by the substituent on the	29/3617 {containing a six-membered heterocyclic
	benzene ring excepted the substituents: CH ₃ ,	with only one nitrogen as heteroatom}
	C ₂ H ₅ , O-alkyl, NHCO-alkyl, NHCOO-alkyl,	29/3621 • • • • • {from a pyridine ring}
	NHCO- C_6H_5 , NHCOO- C_6H_5	29/3626 {from a pyridine ring containing one or
29/0834	• • • • {linked through -O- (for OH see	more hydroxyl groups (or = O)}
	<u>C09B 29/24, C09B 29/26</u>)}	29/363 {from diazotized amino carbocyclic
29/0835	• • • { linked through -S-}	rings}
29/0836	• • • • {linked through -N= (for heterocyclic ring,	29/3634 {from diazotized heterocyclic rings}
	see C09B 29/0846)}	29/3639 {from a pyridine ring containing one or
29/0838	• • • • {specific alkyl-CO-N-, aralkyl CON-,	more amino groups}
	cycloalkyl CON-, alkyl OCON-}	29/3643 {from quinolines or hydrogenated
29/0839	• • • • {specific -NCO aryl, -NCO heteroaryl}	quinolines}
29/084	• • • • {specific -NSO2N,NSO2XR, -NSO2R}	29/3647 {containing a five-membered ring with two
29/0841	· · · · · {specific -NCON}	nitrogen atoms as heteroatoms}
29/0842	• • • {linked through-C-, -CS-, (Image); -CN}	29/3652 {containing a 1,2-diazoles or hydrogenated
29/0844	• • • { substituted by alkyl, e.g. CF_3 }	1,2-diazoles}
29/0845	{substituted by carbocyclic ring linked	29/3656 {containing amino-1,2-diazoles}
	directly to the benzene ring}	29/366 {containing hydroxy-1,2-diazoles, e.g.
29/0846	• • • {substituted by heterocyclic ring linked	pyrazolone }
20/00/1=	directly to the benzene ring}	29/3665 {containing a six-membered heterocyclic ring with two nitrogen atoms}
29/0847	• • • {substituted by halogen}	29/3669 {from a pyrimidine ring}
29/0848	• • • {substituted by NO ₂ }	29/3673 {Barbituric acid and derivatives thereof}
29/095	Amino naphthalenes	29/3678 {Barolturic acid and derivatives thereof}
29/0955	• • {containing water solubilizing groups}	29/3682 {containing only oxygen as neteroatom}
29/10	• from coupling components containing hydroxy as	27/3002 • • • {Containing only suitur as neteroatom}
	the only directing group	

29/3686	{containing nitrogen and oxygen as	31/24	from a coupling component "D" containing
	heteroatom}		reactive methylene groups
29/3691	• • {containing nitrogen and sulfur as heteroatom}	31/26	• • from other coupling components "D"
29/3695	• • • {containing other heterocyclic compounds}	31/28	Heterocyclic compounds
31/00	Disazo and polyazo dyes of the type A->B->C, A-	31/30	. Other polyazo dyes
	>B->C->D, or the like, prepared by diazotising and coupling	33/00	Disazo and polyazo dyes of the types A->K<-B, A->B->K<-C, or the like, prepared by diazotising
31/02	. Disazo dyes		and coupling
31/025	• • {containing acid groups, e.gCOOH, -SO ₃ H, -	33/02	. Disazo dyes
	PO ₃ H ₂ , -OSO ₃ H, -OPO ₂ H ₂ ; Salts thereof}	33/04	in which the coupling component is a dihydroxy
31/04	from a coupling component "C" containing a directive amino group	33/044	or polyhydroxy compound the coupling component being a bis-phenol
31/041	• • • {containing acid groups, e.gCO ₂ H, -SO ₃ H, -	33/048	the coupling component being a bis-naphthol
	PO ₃ H ₂ , -OSO ₃ H, -OPO ₂ H ₂ ; Salts thereof}	33/052	• • • the coupling component being a bis-(naphthol-
31/043	Amino-benzenes		amine)
31/047	SO ₃ H, —PO ₃ H ₂ , —OSO ₃ H, —OPO ₂ H ₂ ;	33/056	• • • the coupling component being a bis-(naphtholurea)
	Salts thereof	33/06	in which the coupling component is a diamine or
31/053	Amino naphthalenes		polyamine
31/057	containing acid groups, e.g. —CO ₂ H, —	33/08	in which the coupling component is a hydroxy-
	SO ₃ H, —PO ₃ H ₂ , —OSO ₃ H, —OPO ₂ H ₂ ;	22/10	amino compound
31/06	Salts thereof from a coupling component "C" containing a	33/10	in which the coupling component is an amino
31/00	directive hydroxyl group	33/12	naphthol in which the coupling component is a heterocyclic
31/061	• • • {containing acid groups, e.gCO ₂ H, -SO ₃ H, -	33/12	compound
	PO ₃ H ₂ , -OSO ₃ H, -OPO ₂ H ₂ ; Salts thereof}	33/147	• in which the coupling component is a bis -(-o-
31/062	Phenols	33/11/	hydroxy-carboxylic- acid amide)
31/065	containing acid groups, e.g. —CO ₂ H, —	33/153	in which the coupling component is a bis-(aceto-
	SO_3H , PO_3H_2 , OSO_3H , OPO_2H_2 ;		acetyl amide) or a bis-(benzoyl-acetylamide)
24 /0 40	Salts thereof	33/16	from other coupling components
31/068	Naphthols	33/18	 Trisazo or higher polyazo dyes
31/072	containing acid groups, e.g. —CO ₂ H, —	33/22	. Trisazo dyes of the type A->B->K<-C
	SO ₃ H, —PO ₃ H ₂ , —OSO ₃ H, —OPO ₂ H ₂ ; Salts thereof	33/24	Trisazo dyes of the type $A \rightarrow K$
31/075	ortho-Hydroxy carboxylic acid amides		Z
31/078	containing acid groups, e.g. —COOH, —	33/26	. Tetrazo dyes of the type A->B->C->K<-D
	SO ₃ H, —PO ₃ H ₂ , —OSO ₃ H, —OPO ₂ H ₂ ; Salts thereof	33/28	. Tetrazo dyes of the type A->B->K<-C<-D
31/08	from a coupling component "C" containing	33/30	. Tetrazo dyes of the type
31/00	directive hydroxyl and amino groups		A → K
31/10	• • from a coupling component "C" containing		C ← D
	reactive methylene groups	33/32	$A \rightarrow K \subset C \leftarrow D$. Tetrazo dyes of the type $A \rightarrow K \subset B$ $A \rightarrow K \subset C \subset D$
31/105	• • {containing acid groups, e.gCO ₂ H, -SO ₃ H, -	33,32	$\Delta \rightarrow K$
	PO_3H_2 , $-OSO_3H$, $-OPO_2H_2$; Salts thereof}		C→D
31/11	Aceto- or benzoyl-acetylarylides		
31/115	{containing acid groups, e.gCOOH, -	35/00	Disazo and polyazo dyes of the type A<-D->B
	SO_3H , $-PO_3H_2$, $-OSO_3H$, $-OPO_2H_2$; salts thereof}	35/02	prepared by diazotising and couplingDisazo dyes
31/12	• • from other coupling components "C"	35/021	 bisazo tyes characterised by two coupling components of the
31/14	Heterocyclic components	33/021	same type
31/143	1,2-Diazoles	35/023	• • in which the coupling component is a hydroxy
31/147	Pyrazoles		or polyhydroxy compound
31/15	Indoles	35/025	in which the coupling component is an amine
31/153	• • • containing a six-membered ring with one		or polyamine
	nitrogen atom as the only ring hetero-atom	35/027	in which the coupling component is a hydroxy-
31/157	Quinolines or hydrogenated quinolines	25/020	amino compound
31/16	Trisazo dyes	35/029 35/03	 Amino naphthol in which the coupling component is a
31/18	 from a coupling component "D" containing a directive amine group 	35/03	heterocyclic compound
31/20	from a coupling component"D" containing a directive hydroxyl group	35/031	containing a six membered ring with one nitrogen atom as the only ring hetero atom
31/22	• • from a coupling component "D" containing		and the second s
31/22	directive hydroxyl and amino groups		

35/033	in which the coupling component is an	35/376	D is a heterocyclic compound
	arylamide of an o-hydroxy-carboxylic acid or	35/378	. Trisazo dyes of the type
	of a beta-keto-carboxylic acid		A ← T → D
35/035	in which the coupling component containing an		A ← T → F
	activated methylene group	25/20	-
35/037	characterised by two coupling components of	35/38	• Trisazo dyes of the type $K \leftarrow A$
	different types		Trisazo dyes of the type $K \leftarrow A$
35/039	characterised by the tetrazo component		→ K₁
35/04	the tetrazo component being a benzene	35/40	the component K being a dihydroxy or
	derivative	33/40	polyhydroxy compound
35/06	the tetrazo component being a naphthalene	35/42	• the component K being a diamine or polyamine
	derivative	35/44	. the component K being a hydroxy amine
35/08	the tetrazo component being a derivative of	35/46	the component K being an amino naphthol
	biphenyl		
35/10	from two coupling components of the same	35/461	{D being derived from diaminobenzene}
	type	35/462	{D being derived from diaminonaphthalene}
35/105	• • • • • {from two coupling components with	35/463	• • • • {D being derived from diaminodiphenyl}
	reactive methylene groups}	35/464	{D being derived from
35/12	from amines	25/465	diaminodiaryl(thio)ether}
35/14	from hydroxy compounds	35/465	{D being derived from diaminodiarylamine}
35/16	from hydroxy-amines	35/466	{D being derived from diaminodiarylurea}
35/18	from heterocyclic compounds	35/467	{D being derived from diaminodiaryl linked
35/185			through CON<, SO ₂ N<, CSN<}
33/103	components}	35/468	• • • {D being derived from diaminodiarylketone}
35/20	• • • • from two coupling compounds of different	35/469	• • • {D being derived from heterocyclic diamine}
33/20	types	35/48	the component K being heterocyclic
35/205	• • • the tetrazo component being a derivative of a	35/50	 Tetrazo dyes
33/203	diaryl- or triaryl- alkane or-alkene	35/52	• • of the type $K \leftarrow A$
35/21	of diarylmethane or triarylmethane		n →
			D , K₁←B
35/215	of diarylethane or diarylethene {(other	25/54	
	stilbene-azo dyes, <u>C09B 56/04</u> , <u>C09B 56/06</u>)}	35/54	of the type $K \leftarrow A$
35/22	• • • the tetrazo component being a derivative of a		D_
33/22	diaryl ether		$^{\sim}B\rightarrow K_{1}$
35/227	• • • the tetrazo component being a derivative of a	35/56	• • of the type $A \rightarrow C$
33/221	diaryl sulfide or a diaryl polysulfide		D T
35/233	• • • the tetrazo component being a derivative of a		B→E
33/233	diaryl ketone or benzil	35/58	
35/24		33/30	۱۰ مر ۱۰
33/24	 the tetrazo component being a derivative of a diaryl amine 		$D \xrightarrow{D} B \to K_1 \leftarrow A$
35/26	-		$^{\circ}B \rightarrow K_1 \leftarrow A$
33/20	the tetrazo component being a derivative of a diaryl urea	35/60	• • of the type $\square \rightarrow B$
25/20	•		K T
35/28	the tetrazo component containing two aryl nuclei linked by at least one of the groups —		,, ✓ U' → C
	CON<, $-SO_2N$ <, $-SO_2$ —, or $-SO_2$ —O—	25/62	Cd 4 = -
35/30	• • • from two identical coupling components	35/62	• • of the type $\square \rightarrow \square$
35/30	from two deficient coupling components		K
			B ← A
35/34	 the tetrazo component being heterocyclic Trisazo dyes in which the tetrazo component is a 	35/64	 Higher polyazo dyes, e.g. of the types
35/35	diamino-azo-aryl compound		A A←B
25/26			Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
35/36	• Trisazo dyes of the type $A \rightarrow B$		
	n → ⁻		D B _x K1←B or _x K1
25/252	F .		K ₁ D ₂ D ₂
35/362	. D is benzene		C K2←C K2←C
35/364	. D is naphthalene		_
35/366	. D is diphenyl	37/00	Azo dyes prepared by coupling the diazotised
35/368	. D is diarylether, a diarylsulfide or a		amine with itself
25/25	diarylpolysulfide	39/00	Other azo dyes prepared by diazotising and
35/37	. D is diarylamine	37100	coupling
35/372	. D is diarylurea		couping
35/374	. D contains two aryl nuclei linked by at least one	41/00	Special methods of performing the coupling
	of the groups — $CON<$, — $SO_2N<$, — SO_2 —, or		reaction {(reaction of mixtures of diazo and coupling
	—SO ₂ —O—		components, <u>C09B 67/0033</u>)}

41/001	• {characterised by the coupling medium}	43/22	having the carboxylic group directly attached to
41/002	• (containing a solvent)	43/24	an aromatic carbocyclic ring • • with formation of —O—SO ₂ —R or —O—SO ₃ H
41/003	• • {containing a polymer (surface-active polyethylene glycols, <u>C09B 41/005</u>)}	43/24	radicals
41/004	• {containing a reaction assistant, e.g. urea}	43/26	with polyfunctional acylating agents
41/005	• {containing low molecular weight dispersing	43/263	{Polycarboxylic acids}
.1,000	agents; containing surface active polythylene	43/266	{Di-or polyisocyanates}
	gylcols}	43/28	 by etherification of hydroxyl groups
41/006	• {characterised by process features}	43/30	• by esterification of —COOH or —SO₃H groups
41/007	• • {including condition or time responsive control,	43/32	 by reacting carboxylic or sulfonic groups, or
	e.g. automatically controlled processes; Stepwise		derivatives thereof, with amines; by reacting keto-
	coupling}		groups with amines
41/008	• • {using mechanical or physical means, e.g.	43/325	• • {by reacting sulfonic acids with amines}
	using ultra-sound, milling during coupling or	43/34	by reacting ortho- or peri-dicarboxylic dyes
	microreactors}	43/36	with amino-anthracene or amino-anthraquinone
41/009	• • {Diazotising and coupling in one step}		dyes
43/00	Preparation of azo dyes from other azo compounds	43/38	by reacting two or more ortho-hydroxy naphthoic
43/003	• {Cyclisation of azo dyes; Condensation of azo dyes		acid dyes with polyamines
	with formation of ring, e.g. of azopyrazolone dyes}	43/40	 by substituting hetero atoms by radicals containing
43/006	• {by introduction of hydrocarbon radicals on C-atom		other hetero atoms
	of azo dye}	43/405	• • {by substituting radicals containing hetero atoms
43/02	 by sulfonation 	10/10	for -SO ₂ R radicals and R being hydrocarbon}
43/04	 by nitration 	43/42	by substituting radicals containing hetero atoms
43/06	 by oxidation 	42/44	for —CN radicals
43/08	• by reduction	43/44	 by substituting amine groups for hydroxyl groups or hydroxyl groups for amine groups; Desacylation of
43/085	• • {by reacting nitro azo dyes with amine or amino		amino-acyl groups; Deaminating
	azo dye with nitro compounds}		animo acyr groups, Deanimating
43/10	• • with formation of a new azo or an azoxy bridge	44/00	Azo dyes containing onium groups
43/11	 by introducing hydrocarbon radicals or substituted 	44/005	• {Special process features in the quaternization
	hydrocarbon radicals on primary or secondary		reaction}
	amino groups (formation of an amino group by	44/02	containing ammonium groups not directly attached
42/12	reduction, e.g. of a nitro groups, <u>C09B 43/08</u>)	44/04	to an azo group
43/12	by acylation of amino groups	44/04	 from coupling components containing amino as the only directing group
43/124	with monocarboxylic acids, carbamic esters or halides, mono- isocyanates, or haloformic acid	44/06	• from coupling components containing hydroxyl
	esters	44/00	as the only directing group
43/1242	• • { with heterocyclic monocarboxylic acids }	44/08	from coupling components containing
43/1245	• • • {with formation of NHCOOR, NHCOSR or	, 00	heterocyclic rings
	NHCSOR groups by acylation}	44/10	containing cyclammonium groups attached to an
43/1247	• • • { with formation of NHSO ₂ R or NHSO ₃ H		azo group by a carbon atom of the ring system
	radicals}	44/101	{characterised by the coupling component having
43/128	Aliphatic, cycloaliphatic or araliphatic acids		an amino directing group}
43/132	having the carboxylic group directly attached to	44/102	• • {characterised by the coupling component having
	an aromatic carbocyclic ring		a reactive methylene group}
43/136	 with polyfunctional acylating agents 	44/103	• • {characterised by the coupling component being a
43/14	• • with phosgene or thiophosgene		heterocyclic compound}
43/145	• • • with polycarboxylic acids	44/105	• • • {derived from pyridine, pyridone}
43/15	• • • with formation of cyclic imides of ortho- or	44/106	• • • {derived from pyrazoles, pyrazolones}
	peri- dicarboxylic acids	44/107	• • {characterised by a cyclammonium five-
43/155	with di- or poly-isocyanates		membered specific ring not mentioned hereafter:
43/16	linking amino-azo or cyanuric acid residues	44/100	thiadiazolium, (benz)oxazolium}
43/18	 by acylation of hydroxyl group {or of mercapto 	44/108	 {characterised by a cyclammonium six-membered specific ring not mentioned hereafter, e.g.
	group; (OPO3H2 and OP(X)(XR)2 with X=O,S,NH		pyrimidinium, perimidinium, pyridazonium,
12/20	and R being hydrocarbon, C09B 69/007)		oxazinium}
43/20	with monocarboxylic acids, carbamic acid esters	44/12	 having one nitrogen atom as the only ring hetero
	or halides, mono- isocyanates or haloformic acid esters	· ·· •=	atom
43/202	{Aliphatic, cycloaliphatic, araliphatic}	44/123	• • • {in a five-membered ring, e.g. pyrrolium,
TJ1 4U4	carboxylic acids}		indolium}
43/204	{Heterocyclic monocarboxylic acids}	44/126	• • • {in a six-membered ring, e.g. pyrridinium,
43/204	{with formation of OCXN or OSO2N group}		quinolinium}
43/208	{with formation of OCXXV or OSOZIV group} {with formation of OCXXH or OCXXR and R	44/14	• 1,2-Diazoles or hydrogenated 1,2-diazoles {;
.5, 200	being hydrocarbon}		Pyrazolium; Indazolium}
	come ny diocatoony		

44/16	 1,3-Diazoles or hydrogenated 1,3-diazoles {; (Benz)imidazolium} 	47/064	• • • {having nitrogen atom(s) directly linked to the skeleton}
44/18	 having three nitrogen atoms as the only ring hetero atoms 	47/065	• • • {having -COOH or -SO ₃ H radicals or derivatives thereof, directly linked to the
44/20	Thiazoles or hydrogenated thiazoles		skeleton}
45/00 45/01	Complex metal compounds of azo dyes - characterised by the method of metallisation	47/067	• • • from phthalodinitriles {naphthalenedinitriles, aromatic dinitriles prepared in situ,
			hydrogenated phthalodinitrile}
45/02	Preparation from dyes containing in o-position a hydroxy group and in o'-position hydroxy, alkoxy, The product of th	47/0671	• • • • {having halogen atoms linked directly to the Pc skeleton}
4.5.10.5.5	carboxyl, amino or keto groups	47/0673	• • • {having alkyl radicals linked directly to
45/025 45/04	• {of azo-pyridone series}• Azo compounds in general		the Pc skeleton; having carbocyclic groups linked directly to the skeleton}
45/06	Chromium compounds	47/0675	• • • {having oxygen or sulfur linked directly to
45/08	Copper compounds		the skeleton}
45/10	Cobalt compounds	47/0676	• • • {having nitrogen atom(s) linked directly to
45/12	other metal compounds		the skeleton}
45/14	Monoazo compounds	47/0678	
	-	47/0078	
45/16	containing chromium		derivatives thereof directly linked to the
45/18	containing copper		skeleton}
45/20	containing cobalt	47/073	• • • Preparation from isoindolenines {, e.g.
45/22	containing other metals		pyrrolenines}
45/24	Disazo or polyazo compounds	47/08	 Preparation from other phthalocyanine
45/26	containing chromium		<pre>compounds {, e.g. cobaltphthalocyanineamine complex}</pre>
45/28	containing copper	47/085	• • {substituting the central metal atom}
45/30	containing cobalt	47/10	Obtaining compounds having halogen atoms
45/32	• • containing other metals	47/10	directly bound to the phthalocyanine skeleton
45/34	 Preparation from o-monohydroxy azo compounds 	47/10	
	having in the o'-position an atom or functional	47/12	Obtaining compounds having alkyl radicals,
	group other than hydroxyl, alkoxy, carboxyl, amino		or alkyl radicals substituted by hetero atoms,
	or keto groups		bound to the phthalocyanine skeleton
45/36	 by oxidation of hydrogen in o'-position 	47/14	• • • having alkyl radicals substituted by halogen
			atoms
45/38	Preparation from compounds with —OH and — COOH adjacent in the same ring or in peri position	47/16	• • • having alkyl radicals substituted by nitrogen atoms
45/40	Chromium compounds	47/18	Obtaining compounds having oxygen atoms
45/42	Copper compounds	17710	directly bound to the phthalocyanine skeleton
45/44	Cobalt compounds	47/20	Obtaining compounds having sulfur atoms
45/46	Other metal compounds	47/20	directly bound to the phthalocyanine skeleton
45/48	Preparation from other complex metal compounds	47/00	
	of azo dyes • {Chromium complexes}	47/22	• • • Obtaining compounds having nitrogen atoms directly bound to the phthalocyanine skeleton
45/482	The state of the s	47/24	• • • Obtaining compounds having —COOH or —
45/485	• • {Copper complexes}		SO ₃ H radicals, or derivatives thereof, directly
45/487	• • {Cobalt complexes}		bound to the phthalocyanine radical
46100		47/26	Amide radicals
46/00	Azo dyes not provided for in	47/28	. Phthalocyanine dyes containing —S—SO ₃ H
	groups <u>C09B 27/00</u> - <u>C09B 45/00</u>	47/20	radicals
47/00	Downhiness Agenewhines ((non-dusing compounds	47/20	
47/00	Porphines; Azaporphines {(non-dyeing compounds	47/30	Metal-free phthalocyanines
	<u>C07D 487/22</u>)}	47/305	• • • {prepared by demetallizing metal Pc
47/04	• Phthalocyanines {abbreviation: Pc}		compounds}
47/045	• • {Special non-pigmentary uses, e.g. catalyst,	47/32	Cationic phthalocyanine dyes
	photosensitisers of phthalocyanine dyes or	48/00	Quinacridones
47/04	pigments}	10,00	Variation
47/06	Preparation from carboxylic acids or derivatives	49/00	Sulfur dyes
	thereof {, e.g. anhydrides, amides, mononitriles,	49/02	• from nitro compounds of the benzene, naphthalene
	phthalimide, o-cyanobenzamide}		or anthracene series
47/061	 • {having halogen atoms linked directly to the Pc skeleton} 	49/04	• from amino compounds of the benzene, naphthalene
47/062	• • • {having alkyl radicals linked directly to the	,	or anthracene series
17/002	Pc skeleton; having carboxylic groups directly	49/06	 from azines, oxazines, thiazines or thiazoles
	linked to the skeleton, e.g. phenyl	49/08	 from urea derivatives
17/063		49/10	• from diphenylamines, indamines, or indophenols {,
47/063	• • • {having oxygen or sulfur atom(s) linked		e.g. p-aminophenols or leucoindophenols}
	directly to the skeleton}	49/12	• from other compounds {, e.g. other heterocyclic
		77/12	compounds}
			compounds

49/122	• • {from phthalocyanine compounds}	57/06	Naphtholactam dyes
49/124	• • {from polycarbocyclic compounds}	57/08	 Naphthalimide dyes; Phthalimide dyes
49/126	• • {from triarylmethane compounds}	57/10	 Metal complexes of organic compounds not being
49/128	• • {from hydroxy compounds of the benzene or		dyes in uncomplexed form
	naphthalene series}	57/12	Perinones, i.e. naphthoylene-aryl-imidazoles
50/00	Formazane dyes; Tetrazolium dyes	57/14	. Benzoxanthene dyes; Benzothioxanthene dyes
50/02	. Tetrazolium dyes	59/00	Artificial dyes of unknown constitution
50/04	Metal-free formazan dyes	<1.00	•
50/06	Bis-formazan dyes	61/00	Dyes of natural origin prepared from natural
50/08	Meso-acyl formazan dyes		sources {, e.g. vegetable sources}
50/10	Cationic formazan dyes	62/00	Reactive dyes, i.e. dyes which form covalent bonds
51 /00	NT*4		with the substrates or which polymerise with
51/00	Nitro or nitroso dyes		themselves
51/005	• {Nitroso dyes}	62/002	• with the linkage of the reactive group being
53/00	Quinone imides	62/0025	alternatively specified
53/02	 Indamines; Indophenols 	62/0025	• • {Specific dyes not provided for in groups C09B 62/004 - C09B 62/018}
55/00	Azomethine dyes	62/004	• • Anthracene dyes {(C09B 62/0068 takes
55/001	• {Azomethine dyes forming a 1,2 complex metal	02/004	precedence)}
33/001	compound, e.g. with Co or Cr, with an other	62/006	Azodyes
	dye, e.g. with an azo or azomethine dye (for 1,1	62/0061	• • • { with coupling components containing an
	complexes with other ligands, <u>C09B 55/00</u>)}	0 2 / 0001	amino directing group}
55/002	• {Monoazomethine dyes}	62/0062	• • • { with coupling components containing a
55/003	• • { with the -C=N- group attached to an heteroring }		hydroxyl directing group}
55/004	• • • { with the -C=N- group between two	62/0064	• • • { with coupling components containing both
	heterorings}		hydroxyl and amino groups as directing
55/005	• {Disazomethine dyes}		groups}
55/006	• • {containing at least one heteroring}	62/0065	• • • {with coupling components containing a
55/007	• • {containing only carbocyclic rings}	62/0067	reactive methylene group}
55/008	• {Tri or polyazomethine dyes}	62/0067	 • { with heterocyclic compound as coupling component}
55/009	• {Azomethine dyes, the C-atom of the group -C=N-being part of a ring (Image)}	62/0068	• • • { dyes containing in the molecule at least one
	being part of a ring (image)}	02/0000	azo group and at least one other chromophore
56/00	Azo dyes containing other chromophoric systems		group}
56/005	• {Azo-nitro dyes}	62/008	Monoazo dyes
56/02	 Azomethine-azo dyes {(1,2-Complex dyes of AZOMETHINE and AZO dyes, <u>C09B 55/001</u>)} 	62/0081	 {with coupling components containing an amino directing group}
56/04	• Stilbene-azo dyes {(disazo dyes from diaminostilbene, C09B 35/215)}	62/0083	 • • • { with coupling components containing a hydroxyl directing group }
56/06	Bis- or polystilbene azo dyes	62/0085	• • • { with coupling components containing both
56/08	Styryl-azo dyes		hydroxyl and amino groups as directing
56/10	Formazane-azo dyes		groups}
56/12	• Anthraquinone-azo dyes {(from diazotised	62/0086	• • • • { with coupling component containing a
	aminoanthracene C09B 29/0022, azo dyes containing hydroxyl groups acylated with	40,000	reactive methylene group}
	polyfunctional anthraquinone derivatives	62/0088	 { with heterocyclic compound as coupling component}
	C09B 43/26)}	62/01	Disazo or polyazo dyes
56/14	Phthalocyanine-azo dyes	62/012	Metal complex azo dyes
56/16	Methine- or polymethine-azo dyes	62/014	Nitro dyes
56/18	Hydrazone-azo dyes	62/014	Porphines; Azaporphines
56/20	Triazene-azo dyes	62/018	Formazane dyes
<i>57/</i> 00	Other countries dress of Irmorem constitution	62/02	• with the reactive group directly attached to a
57/00 57/001	Other synthetic dyes of known constitution . {Pyrene dyes}		heterocyclic ring
57/001	• {Aminoketone dyes, e.g. arylaminoketone dyes	62/021	• • {Specific dyes not provided for in groups
	(<u>C09B 13/00</u> takes precedence)}	62/022	C09B 62/024 - C09B 62/038} • the heterocyclic ring being alternatively specified
57/004	• {Diketopyrrolopyrrole dyes}	62/024	Anthracene dyes
57/005	• {Pyrocolline; Phthalcoylpyrrocolline dyes}	62/024	Azo dyes
57/007	• {Squaraine dyes}	62/0265	{Dyes containing in the molecule at least
57/008	• {Triarylamine dyes containing no other chromophores}	32, 3203	one azo group and at least one other chromophore group}
57/02	. Coumarine dyes	62/028	Monoazo dyes
57/04	Isoindoline dyes	62/028	Disazo or polyazo dyes
		02/03	· · · · Disazo of polyazo dyes

62/032	Metal complex azo dyes	62/345 Anthracene dyes
62/034	Nitro dyes	62/347 Azo dyes
62/036	Porphines; Azaporphines	62/35 Monoazo dyes
62/038	Formazane dyes	62/353 Disazo or polyazo dyes
62/04	to a triazine ring	62/355 Metal complex azo dyes
62/043	• • • {containing two or more triazine rings linked	62/357 Porphines; Azaporphines
	together by a non-chromophoric link}	62/36 to some other heterocyclic ring
62/046	{Specific dyes not provided for in group	62/365 {Specific dyes not provided for in groups
62/06	<u>C09B 62/06</u> - <u>C09B 62/10</u> }	<u>C09B 62/38</u> - <u>C09B 62/42</u> }
62/06	Anthracene dyes	62/38 Anthracene dyes
62/08	. Azo dyes { dyes containing in the molecule at least	62/40 Azo dyes
62/082	one azo group and at least one other	62/405 Monoazo dyes
	chromophore group}	62/41 Disazo or polyazo dyes
62/085	Monoazo dyes	62/415 Metal complex azo dyes
62/09	Disazo or polyazo dyes	62/42 Porphines; Azaporphines
62/095	Metal complex azo dyes	62/44 • with the reactive group not directly attached to a
62/10	Porphines; Azaporphines	heterocyclic ring 62/4401 • • { with two or more reactive groups at least one
62/12	• to a pyridazine ring	of them being directly attached to a heterocyclic
62/125	Specific dyes non provided for in groups	system and at least one of them being directly
02/123	C09B 62/14 - C09B 62/18}	attached to a non-heterocyclic system}
62/14	Anthracene dyes {(C09B 62/162 takes	62/4403 • • • {the heterocyclic system being a triazine ring}
	precedence)}	62/4405 {Dioxazine dyes}
62/16	Azo dyes	62/4407 {Formazane dyes}
62/162	{Dyes containing in the molecule at least	62/4409 {Anthracene dyes}
	one azo group and at least one other	62/4411 {Azo dyes}
	chromophore group}	62/4413 {Non-metallized monoazo dyes}
62/165	Monoazo dyes	62/4415 {Disazo or polyazo dyes}
62/17	Disazo or polyazo dyes	62/4416 {Metal complex azo dyes}
62/175	Metal complex azo dyes	62/4418 {Porphines; Azoporphines}
62/18	• • Porphyrins; Prophyrazins {(C09B 62/162 takes	62/442 {the heterocyclic system being a pyridazine
	precedence)}	ring}
62/20	to a pyrimidine ring	62/4422 {the heterocyclic system being a pyrimidine
62/205	• • • {Specific dyes not provided for in groups	ring}
	<u>C09B 62/22</u> - <u>C09B 62/26</u> }	62/4424 • • • {Azo dyes}
62/22	Anthracene dyes {(C09B 62/242 takes	62/4426 • • • {the heterocyclic system being a pyrazine}
62/24	precedence)}	62/4428 { the heterocyclic system being a five
62/24	Azo dyes	membered ring}
62/242	• • • • {Dyes containing in the molecule at least one azo group and at least one other	62/443 the reactive group being alternatively specified
	chromophore group}	62/445 Anthracene dyes
62/245	Monoazo dyes	62/447 Azo dyes
62/25	Disazo or polyazo dyes	62/45 Monoazo dyes
62/255	Metal complex azo dyes	62/453 Disazo or polyazo dyes
62/26	Porphyrins; Porphyrazins {(C09B 62/242 takes	62/455 Metal complex azo dyes
02/20	precedence)}	62/457 Porphines; Azaporphines
62/28	• to a pyrazine ring	62/463 Formazane dyes
62/285	{Specific dyes not provided for in groups	62/465 the reactive group being an acryloyl group,
	C09B 62/30 - C09B 62/34}	a quaternised or non-quaternised aminoalkyl
62/30	Anthracene dyes {(C09B 62/322 takes	carbonyl group or a $(-N)_n$ -CO-A-O-X or $(-N)_n$ -CO-A-Hal group, wherein A is an
	precedence)}	alkylene or alkylidene group, X is hydrogen or an
62/32	Azo dyes	acyl radical of an organic or inorganic acid, Hal is
62/322	{Dyes containing in the molecule at least	a halogen atom, and n is 0 or 1
	one azo group and at least one other	62/467 Anthracene dyes
	chromophore group}	62/47 Azo dyes
62/325	Monoazo dyes	62/473 Monoazo dyes
62/33	Disazo or polyazo dyes	62/475 Disazo or polyazo dyes
62/335	Metal complex azo dyes	62/477 Metal complex azo dyes
62/34	• • Porphyrins; Porphyrazins {(C09B 62/322 takes	62/483 Porphines; Azaporphines
60/0/0	precedence)}	62/485 the reactive group being a halo-cyclobutyl-
62/343	• to a five membered ring	carbonyl, halo-cyclobutyl-vinyl-carbonyl, or halo-
62/3435	{Specific dyes not provided for in groups	cyclobutenyl-carbonyl group
	<u>C09B 62/345</u> - <u>C09B 62/357</u> }	62/487 Anthracene dyes

62/489	Azo dyes	62/773	Disazo or polyazo dyes
62/491	Monoazo dyes	62/775	Metal complex azo dyes
62/493	Disazo or polyazo dyes	62/777	Porphines; Azaporphines
62/495	Metal complex azo dyes	62/78	with other reactive groups
62/497	Porphines; Azaporphines	62/80	Anthracene dyes
62/503	the reactive group being an esterified or non-	62/82	Azo dyes
	esterified hydroxyalkyl sulfonyl or mercaptoalkyl	62/825	Monoazo dyes
	sulfonyl group, a quaternised or non-quaternised	62/83	Disazo or polyazo dyes
	aminoalkyl sulfonyl group, a heterylmercapto	62/835	Metal complex azo dyes
	alkyl sulfonyl group, a vinyl sulfonyl or a	62/84	Porphines; Azaporphines
	substituted vinyl sulfonyl group, or a thiophene-	02/04	· · · · Torphines, Azaporphines
	dioxide group	Lakes: More	lants; Dyestuff preparations
62/5033	{Dioxazine dyes}		
62/5036	{Formazane dyes}	63/00	Lakes
62/505	Anthracene dyes {(<u>C09B 62/5033</u> ,	63/005	• {Metal lakes of dyes (complex metal compounds
	<u>C09B 62/5036</u> take precedence)}		of azo dyes <u>C09B 45/00</u> , metal complexes of
62/507	Azo dyes {(<u>C09B 62/5033, C09B 62/5036</u> take		colourless compounds <u>C09B 57/10</u>)}
	precedence)}	65/00	Compositions containing mordants
62/51	Monoazo dyes	03/00	Compositions containing mortants
62/513	Disazo or polyazo dyes	67/00	Influencing the physical, e.g. the dyeing or printing
62/515	Metal complex azo dyes		properties of dyestuffs without chemical reactions,
62/517	 Porphines; Azaporphines {(C09B 62/5033, 		e.g. by treating with solvents {grinding or grinding
02/31/	C09B 62/5036 take precedence)}		assistants, coating of pigments or dyes}; Process
62/523	• the reactive group being an esterified or non-		features in the making of dyestuff preparations;
02/323	esterified hydroxyalkyl sulfonyl amido or		Dyestuff preparations of a special physical nature,
	hydroxyalkyl amino sulfonyl group, a quaternised		e.g. tablets, films
	or non-quaternised amino alkyl sulfonyl amido	67/0001	• {Post-treatment of organic pigments or dyes}
	group, or a substituted alkyl amino sulfonyl	67/0002	• • {Grinding; Milling with solid grinding or milling
	group, or a halogen alkyl sulfonyl amido or		assistants}
	halogen alkyl amino sulfonyl group or a vinyl	67/0003	• • {Drying, e.g. sprax drying; Sublimation of the
	sulfonylamido or a substituted vinyl sulfonamido		solvent}
	group	67/0004	 {Coated particulate pigments or dyes}
62/525	Anthracene dyes	67/0005	• • • {the pigments being nanoparticles}
62/527	Azo dyes	67/0007	• • { with inorganic coatings}
62/53	Monoazo dyes	67/0008	• • {with organic coatings}
62/533	Disazo or polyazo dyes	67/0009	• • • {containing organic acid derivatives}
62/535	Metal complex azo dyes	67/001	{containing resinic acid derivatives}
62/537	Porphines; Azaporphines	67/0011	• • • {containing amine derivatives, e.g.
62/54	 the reactive group being an epoxy or halohydrin 	21,722	polyamines}
02/34	group	67/0013	• • • • {with polymeric coatings}
62/56	Anthracene dyes	67/0014	• • {Influencing the physical properties by treatment
62/58	Azo dyes	07/0011	with a liquid, e.g. solvents}
		67/0015	• • • {of azoic pigments}
62/585	Monoazo dyes	67/0016	{of above pigments} {of phthalocyanines}
62/59	Disazo or polyazo dyes	67/0017	. { (or printatocyanines) }. { Influencing the physical properties by treatment }
62/595	Metal complex azo dyes	07/0017	with an acid, H_2SO_4
62/60	Porphines; Azaporphines	67/0019	• • • {of phthalocyanines}
62/62	the reactive group being an ethylenimino or N	67/0019	. { or phinalocyalines }. { Influencing the physical properties by treatment
	—acylated ethylenimino group or a —CO—NH	07/002	with an amine }
	—CH ₂ —CH ₂ —X group, wherein X is a halogen	67/0021	• {Flushing of pigments}
	atom, a quaternary ammonium group or O—acyl		
	and acyl is derived from an organic or inorganic acid, or a beta—substituted ethylamine group	67/0022	. {Wet grinding of pigments} {of phthalocyanines}
(2)(1		67/0023	
62/64	Anthracene dyes	67/0025	• {Crystal modifications; Special X-ray patterns}
62/66	Azo dyes	67/0026	• • {of phthalocyanine pigments}
62/665	Monoazo dyes	67/0027	• • {of quinacridones}
62/67	Disazo or polyazo dyes	67/0028	• • {of azo compounds}
62/675	Metal complex azo dyes	67/0029	• • • {of monoazo compounds}
62/68	Porphines; Azaporphines	67/003	• • {of diketopyrrolopyrrole}
62/763	• • the reactive group being a N-methylol group or an	67/0032	• {Treatment of phthalocyanine pigments
	O-derivative thereof		(<u>C09B 67/0016</u> , <u>C09B 67/0019</u> take precedence)}
62/765	Anthracene dyes	67/0033	• {Blends of pigments; Mixtured crystals; Solid
62/767	Azo dyes		solutions}
62/77	Monoazo dyes		

67/0034	• • {Mixtures of two or more pigments or dyes of the same type}	67/0078	• • {Preparations of vat, sulfur or indigo dyes in liquid form}
67/0035	• • • {Mixtures of phthalocyanines}	67/0079	• • {Azoic dyestuff preparations}
67/0036	{Mixtures of quinacridones}	67/008	• • {Preparations of disperse dyes or solvent dyes}
67/0038	{Mixtures of anthraquinones}	67/0082	• • {in liquid form}
67/0039	• • • {Mixtures of diketopyrrolopyrroles}	67/0083	• • {Solutions of dyes}
67/004	• • {Mixtures of two or more reactive dyes}	67/0084	• • {Dispersions of dyes}
67/0041	• • {mixtures containing one azo dye}	67/0085	{Non common dispersing agents}
67/0042	{Mixtures containing two reactive dyes one of	67/0086	• • • {anionic dispersing agents}
	them being an azo dye}	67/0088	• • • {cationic dispersing agents}
67/0044	• • • {both having the reactive group directly attached to a heterocyclic system}	67/0089	• • • { non ionic dispersing agent, e.g. EO or PO addition products }
67/0045	• • • {both having the reactive group not directly attached to a heterocyclic system}	67/009 67/0091	 {polymeric dispersing agent} {Process features in the making of dispersions,
67/0046	• • {Mixtures of two or more azo dyes}	07/0071	e.g. ultrasonics}
67/0047	• • {Mixtures of two or more reactive azo dyes}	67/0092	• • {Dyes in solid form}
67/0048	{ all the reactive groups being directly	67/0094	• • {Treatment of powders, e.g. antidusting}
0770010	attached to a heterocyclic system}	67/0095	• • { Treatment of powders, e.g. anidustring}• • • {Process features in the making of granulates}
67/005	• • • { all the reactive groups being not directly	67/0095	• {Purification; Precipitation; Filtration}
077005	attached to a heterocyclic system}		• {Purification; Precipitation; Pritration} • {Dye preparations of special physical nature;
67/0051	• • • {mixture of two or more monoazo dyes}	67/0097	Tablets, films, extrusion, microcapsules, sheets,
67/0052	• • • {Mixtures of two or more reactive monoazo		pads, bags with dyes}
0770022	dyes}	67/0098	• {Organic pigments exhibiting interference colours,
67/0053	• • • • {all the reactive groups being directly attached to a heterocyclic system}	07/00/8	e.g. nacrous pigments}
67/0054	{all the reactive groups not being directly	68/00	{Organic pigments surface-modified by grafting,
07/0054	attached to a heterocyclic system}		e.g. by establishing covalent or complex bonds,
67/0055	• • • {Mixtures of two or more disazo dyes}		in order to improve the pigment properties, e.g.
67/0057	{Mixtures of two or more reactive disazo		dispersibility or rheology}
07/0037	dyes}	68/20	 {characterised by the process features}
67/0058	• • • • { all the reactive groups are directly	68/22	• • {Acid treatment (for acid pasting
07/0030	attached to a heterocyclic system}		<u>C09B 67/0015</u>)}
67/0059	{ all the reactive groups are not directly	68/24	• • {Azo-coupling}
0170037	attached to a heterocyclic system}	68/26	• • {Oxidation}
67/006	• {Preparation of organic pigments}	68/28	• • {Complexing}
67/0061	(Frequencial of organic pigments)(by grinding a dyed resin)	68/40	• {characterised by the chemical nature of the
67/0063	(of organic pigments with only macromolecular		attached groups}
	substances}	68/41	• • {Polymers attached to the pigment surface
	(of mbthologymanings with only		(<u>C09B 68/444</u> , <u>C09B 68/446</u> take precedence)
67/0064	(of phthalocynanines with only	68/42	
	macromolecular substances}	68/42 68/423	• • {Ionic groups, e.g. free acid}
67/0064	macromolecular substances} {of organic pigments with only non-	68/423	. {Ionic groups, e.g. free acid} {Cationic groups}
67/0065	macromolecular substances} . • {of organic pigments with only non-macromolecular compounds}	68/423 68/4235	. {Ionic groups, e.g. free acid}. {Cationic groups} {Ammonium groups or derivatives thereof}
	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing 	68/423 68/4235 68/425	 . {Ionic groups, e.g. free acid} . {Cationic groups} . {Ammonium groups or derivatives thereof} . {Anionic groups}
67/0065 67/0066	macromolecular substances} . • {of organic pigments with only non- macromolecular compounds} . • {Aqueous dispersions of pigments containing only dispersing agents}	68/423 68/4235 68/425 68/4253	 . {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups}
67/0065	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine 	68/423 68/4235 68/425 68/4253 68/4257	 . {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups}
67/0065 67/0066 67/0067	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} 	68/423 68/4235 68/425 68/4253	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring}
67/0065 67/0066	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • • {Non aqueous dispersions of pigments containing 	68/423 68/4235 68/425 68/4253 68/4257 68/427	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time}
67/0065 67/0066 67/0067 67/0069	 macromolecular substances } • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} 	68/423 68/4235 68/425 68/4253 68/4257 68/427	 . {Ionic groups, e.g. free acid} . {Cationic groups} . {Ammonium groups or derivatives thereof} . {Anionic groups} . {Sulfonic acid groups} . {Carboxylic acid groups} . {Ionic groups and at least one triazine ring present at the same time} . {Non-ionic groups, e.g. halogen, OH or SH}
67/0065 67/0066 67/0067	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • {Non aqueous dispersions of phthalocyanines 	68/423 68/4235 68/425 68/4253 68/4257 68/427	 . {Ionic groups, e.g. free acid} . {Cationic groups} . {Ammonium groups or derivatives thereof} . {Anionic groups} . {Sulfonic acid groups} . {Carboxylic acid groups} . {Ionic groups and at least one triazine ring present at the same time} . {Non-ionic groups, e.g. halogen, OH or SH} . {Sulfonic acid derivatives, e.g. sulfonic acid
67/0065 67/0066 67/0067 67/0069	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing 	68/423 68/4235 68/425 68/4253 68/4257 68/427 68/44 68/441	 . {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} . {Non-ionic groups, e.g. halogen, OH or SH} . {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters}
67/0065 67/0066 67/0067 67/0069 67/007	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} 	68/423 68/4235 68/425 68/4253 68/4257 68/427	 . {Ionic groups, e.g. free acid} . {Cationic groups} . {Ammonium groups or derivatives thereof} . {Anionic groups} . {Sulfonic acid groups} . {Carboxylic acid groups} . {Ionic groups and at least one triazine ring present at the same time} . {Non-ionic groups, e.g. halogen, OH or SH} . {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} . {Carboxylic acid derivatives, e.g. carboxylic
67/0065 67/0066 67/0067 67/0069	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Process features in the making of dyestuff 	68/423 68/4235 68/425 68/4253 68/4257 68/427 68/44 68/441	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN
67/0065 67/0066 67/0067 67/0069 67/007	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing 	68/423 68/4235 68/425 68/4253 68/4257 68/427 68/44 68/441	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups}
67/0065 67/0066 67/0067 67/0069 67/0071	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} 	68/423 68/4235 68/425 68/4257 68/427 68/44 68/441 68/443	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether}
67/0065 67/0066 67/0067 67/0069 67/0071	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} • {Preparations with anionic dyes or reactive dyes} 	68/423 68/4235 68/425 68/4253 68/4257 68/427 68/44 68/441	 . {Ionic groups, e.g. free acid} . {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} . {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether} {Amines or polyamines, e.g. aminopropyl,
67/0065 67/0066 67/0067 67/0069 67/0071	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} • {Preparations with anionic dyes or reactive dyes} • {Preparations of acid or reactive dyes in liquid 	68/423 68/4235 68/425 68/4257 68/427 68/44 68/441 68/443	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether} {Amines or polyamines, e.g. aminopropyl, 1,3,4,-triamino-pentyl or polyethylene imine}
67/0065 67/0066 67/0067 67/0069 67/007 67/0071	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} • {Preparations with anionic dyes or reactive dyes} • {Preparations of acid or reactive dyes in liquid form} 	68/423 68/4235 68/425 68/4257 68/427 68/447 68/441 68/443	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether} {Amines or polyamines, e.g. aminopropyl, 1,3,4,-triamino-pentyl or polyethylene imine} {Alkyl groups}
67/0065 67/0066 67/0067 67/007 67/0071 67/0072 67/0073 67/0075	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} • {Preparations with anionic dyes or reactive dyes} • {Preparations with cationic dyes} 	68/423 68/4235 68/425 68/4257 68/427 68/427 68/441 68/443 68/444 68/444 68/447 68/4475	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether} {Amines or polyamines, e.g. aminopropyl, 1,3,4,-triamino-pentyl or polyethylene imine} {Alkyl groups} {Substituted alkyl groups}
67/0065 67/0066 67/0067 67/0069 67/007 67/0071	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} • • {Preparations with anionic dyes or reactive dyes} • • {Preparations of acid or reactive dyes in liquid form} • {Preparations with cationic dyes} • • {Preparations of cationic or basic dyes in liquid 	68/423 68/4235 68/425 68/4257 68/427 68/447 68/441 68/443	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether} {Amines or polyamines, e.g. aminopropyl, 1,3,4,-triamino-pentyl or polyethylene imine} {Alkyl groups} {Substituted alkyl groups, e.g. {Unsaturated carbohydrates groups, e.g.
67/0065 67/0066 67/0067 67/007 67/0071 67/0072 67/0073 67/0075 67/0076	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} • {Preparations with anionic dyes or reactive dyes} • • {Preparations of acid or reactive dyes in liquid form} • {Preparations of cationic or basic dyes in liquid form} 	68/423 68/4235 68/425 68/4257 68/427 68/427 68/441 68/443 68/444 68/446 68/447 68/447 68/449	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether} {Amines or polyamines, e.g. aminopropyl, 1,3,4,-triamino-pentyl or polyethylene imine} {Alkyl groups} {Substituted alkyl groups, e.g. alkenyl or alkinyl}
67/0065 67/0066 67/0067 67/007 67/0071 67/0072 67/0073 67/0075	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} • • {Preparations with anionic dyes or reactive dyes} • • {Preparations with cationic dyes} • • {Preparations with cationic or basic dyes in liquid form} • {Preparations with possibly reduced vat, sulfur or 	68/423 68/4235 68/425 68/4257 68/427 68/427 68/441 68/443 68/444 68/444 68/447 68/4475	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether} {Amines or polyamines, e.g. aminopropyl, 1,3,4,-triamino-pentyl or polyethylene imine} {Alkyl groups} {Substituted alkyl groups} {Unsaturated carbohydrates groups, e.g. alkenyl or alkinyl} {Substituted unsaturated carbohydrates
67/0065 67/0066 67/0067 67/007 67/0071 67/0072 67/0073 67/0075 67/0076	 macromolecular substances} • {of organic pigments with only non-macromolecular compounds} • {Aqueous dispersions of pigments containing only dispersing agents} • • {Aqueous dispersions of phthalocyanine pigments containing only dispersing agents} • • {Non aqueous dispersions of pigments containing only a solvent and a dispersing agent} • • {Non aqueous dispersions of phthalocyanines containing only a solvent and a dispersing agent} • • {Process features in the making of dyestuff preparations; Dehydrating agents; Dispersing agents; Dustfree compositions} • {Preparations with anionic dyes or reactive dyes} • • {Preparations of acid or reactive dyes in liquid form} • {Preparations of cationic or basic dyes in liquid form} 	68/423 68/4235 68/425 68/4257 68/427 68/427 68/441 68/443 68/444 68/446 68/447 68/447 68/449	 {Ionic groups, e.g. free acid} {Cationic groups} {Ammonium groups or derivatives thereof} {Anionic groups} {Sulfonic acid groups} {Carboxylic acid groups} {Ionic groups and at least one triazine ring present at the same time} {Non-ionic groups, e.g. halogen, OH or SH} {Sulfonic acid derivatives, e.g. sulfonic acid amides or sulfonic acid esters} {Carboxylic acid derivatives, e.g. carboxylic acid amides, carboxylic acid esters or CN groups} {Polyether} {Amines or polyamines, e.g. aminopropyl, 1,3,4,-triamino-pentyl or polyethylene imine} {Alkyl groups} {Substituted alkyl groups, e.g. alkenyl or alkinyl}

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68/463
           . . . {Substituted aromatic groups}
68/467
           • • {Heteroaromatic groups}
68/4673
           • • • {5-Membered rings}
           • • • {6-Membered rings}
68/4677
68/46775
           . . . . {Triazine (<u>C09B 68/427</u> takes
                       precedence)}
68/48
           . . {Non-aromatic cyclic groups}
68/485
           • • • {Substituted non-aromatic cyclic groups}
69/00
           Dyes not provided for by a single group of this
69/001
           . {Dyes containing an onium group attached to the
              dye skeleton via a bridge}
           • . {Hydrazinium group}
69/002
69/004
             . {Sulfonium group}
69/005
           • • {Isothiuronium group}
69/007
             {Dyestuffs containing phosphonic or phosphinic
              acid groups and derivatives}
69/008
           • {Dyes containing a substituent, which contains a
              silicium atom}
69/02
           . Dyestuff salts, e.g. salts of acid dyes with basic dyes
              (for Na, K or NH<sub>4</sub><sup>+</sup> salts or for chlorides, sulfates or
              chlorozincates, see the relevant dye groups)
69/04
           . . of anionic dyes with nitrogen containing
                compounds
69/045
           • • { of anionic azo dyes}
69/06
           . . of cationic dyes with organic acids {or with
                inorganic complex acids}
69/065
           • • • {of cationic azo dyes}
           . Dyes containing a splittable water solubilising
69/08
              group {(dyes containing an onium group attached to
              the dye molecule via a bridge are to be considered
              as cationic dyes and are classified with the
              respective dyes such as <u>C09B 44/02</u> - <u>C09B 44/08</u>;
              <u>C09B 69/001</u> - <u>C09B 69/005</u>)}
69/10
           . Polymeric dyes; Reaction products of dyes with
              monomers or with macromolecular compounds
              {(addition products of alkylene oxide to dyes,
              C09B 69/00; dyeing with polymeric dyes
              D06P 1/0056)}
69/101
           • {containing an anthracene dye}
69/102
           • • {containing a perylene dye}
69/103
           • • {containing a diaryl- or triarylmethane dye}
69/104
           • • {containing an indole dye, including melanine
                derivates }
69/105
           • • {containing a methine or polymethine dye}
69/106
           • • {containing an azo dye}
69/107
           . . {containing an azomethine dye}
69/108
           • • {containing a phthalocyanine dye}
69/109
           • . {containing other specific dyes}
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