22	Dyes, varnishes, lacquers, paints, adhesives
22	(IPC: C09) Dyes; Paints; Polishes; Natural resins; Adhesives; Miscellaneous compositions; Miscellaneous applications of materials
22a	Azo, azoxy, and hydrazone dyes, as such and applied to the fibre
22a	(IPC: C09B) Organic dyes or closely related compounds for producing dyes; Mordants; Lakes
22b	Acridines, anthracene dyes, di- and triarylmethane dyes, phthaleins, pyronines, oxyketone dyes
22c	Azines, oxazines, thiazines, indulines, safranines, eurhodines, indophenols
22d	Sulfur-containing dyes
22e	Indigo, thioindigo and other dyes, except 22a – 22d
22f	Pigments: mineral and bronze dyes, lakes
22f	(IPC: C09C) Preparation of inorganic pigments or non-fibrous fillers; Treatment of inorganic materials, other than fibrous fillers, to enhance their pigmenting or filling properties
22g	Inks, marking dyes, artists' paints, pearl essence, dye binders, shoe creams, polishing waxes, paints, embossing sheets, mordants, cleaning, polishing, and finishing materials
22g	(IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing
22h	Resins, varnishes, lacquers, drying agents, polishes, tar and pitch containing mixtures, synthetic asphalts
22h1	(IPC: C09F) Natural resins; French polish; Drying-oils; Driers, i.e. siccatives; Turpentine
22h2	(IPC: C09G) Polishing compositions other than French polish; Ski waxes
<b>22</b> i	Putties, glues and other adhesives, packing materials
<b>22i1</b>	(IPC: C09H) Preparation of glue or gelatine
22i2	(IPC: C09J) The use of materials other than glue as adhesives; Adhesive processes in general, non-mechanic part
22k	(IPC: C09K) Miscellaneous compositions; Miscellaneous applications of materials
 22a	Azo, azoxy, and hydrazone dyes, as such and applied to the fibre
<b>LL</b> a	(azoxy dyes, see specific dyes)
	Monoazo dyes as such and applied to the fibre
22a-1 22a-2	Monoazo dyes in general Ortho-hydroxy-monoazo dyes

22a-3/04

22a-3	Monoazo dyes from primulin, and similar thio bases
	Disazo dyes as such and applied to the fibre
22a-4	Primary disazo dyes
22a-5	Secondary disazo dyes
22a-6	Disazo dyes from diaminodiphenyl and its derivatives, Congo dyes
22a-7	Disazo dyes from phenylene and naphtylene diamines
22a-8	Disazo dyes from various diamines, except 22a-6 and 22a-7
22a-0	
	Polyazo dyes, also on the fibre
22a-9	Polyazo dyes from monoamines
22a-10	Polyazo dyes from diamines
22a-11	Polyazo dyes from polyamines: triaminotriphenylmethane, etc.
22a-12	Chrysoidine and Bismark brown dyestuffs
22a-13	Stilbene dyes
22a-14	Hydrazone dyes
	•
22a	(IPC: C09B) Organic dyes or closely related compounds for producing dyes; Mordants; Lakes
	Note:
	In this subclass, a compound is always classified in the last appropriate
	place.
Anthracene c	l <u>yes</u>
22a-1/00	Dyes with an anthracene nucleus not condensed with any other ring
22a-1/02	. Hydroxy-anthraquinones; Ethers and esters thereof
22a-1/04	. Preparation by synthesis of the nucleus
22a-1/06	Preparation from starting materials already containing the anthracene nucleus
22a-1/08	Dyes containing only OH groups
22a-1/10	Dyes containing halogen
22a-1/12	Dyes containing sulphonic acid groups
22a-1/14	Dyes containing ether groups
22a-1/16	. Amino-anthraquinones
22a-1/18	Preparation by synthesis of the nucleus
22a-1/20 22a-1/22	Preparation from starting materials already containing the anthracene nucleus
22a-1/24	Dyes with unsubstituted amino groups sulphonated
22a-1/24 22a-1/26	Dyes with amino groups substituted by hydrocarbon radicals
22a-1/28	substituted by alkyl, aralkyl, or cyclo-alkyl groups
22a-1/30	sulphonated
22a-1/32	substituted by aryl groups (anthrimides 22a-1/48)
22a-1/34	sulphonated
22a-1/36	Dyes with acylated amino groups
22a-1/38	urea and thiourea derivatives
22a-1/40	the acyl groups being residues of an aliphatic or araliphatic carboxylic acid
22a-1/42	the acyl groups being residues of an aromatic carboxylic acid
22a-1/44	the acyl groups being residues of a heterocyclic carboxylic acid
22a-1/46	the acyl groups being residues of cyanuric acid or an analogous heterocyclic
220 1/49	compound Anthrimides
22a-1/48 22a-1/50	
22a-1/50 22a-1/52	. Amino-hydroxy-anthraquinones; Ethers and esters thereof sulphonated
22a-1/52 22a-1/54	etherified
22a-1/56	. Mercapto-anthraquinones
22a-3/00	Dyes with anthracene nucleus condensed with one or more carbocyclic
5/00	rings
22a-3/02	. Benzathrones

. . Preparation by synthesis of the nucleus

22a-3/06	Preparation from starting materials already containing the benzanthrone nucleus
22a-3/08	by halogenation
22a-3/10	Amino derivatives
22a-3/12	Dibenzanthronyls
22a-3/14	. Perylene derivatives
22a-3/16	Preparation by synthesis of the nucleus
22a-3/18	Preparation from starting materials already containing the perylene nucleus
22a-3/20	by halogenation
22a-3/22	. Dibenzanthrones; Isodibenzanthrones
22a-3/24	Preparation by synthesis of the nucleus
22a-3/26	from dibenzanthronyls
22a-3/28	from perylene derivatives
22a-3/30	<ul> <li>Preparation from starting materials already containing the dibenzanthrone or isodibenzanthrone nucleus</li> </ul>
22a-3/32	by halogenation
22a-3/34	by oxidation
22a-3/36	by etherification of hydroxy compounds
22a-3/38	by introduction of hydrocarbon or acyl residues into amino groups
22a-3/40	. Pyranthrones
22a-3/42	Preparation by synthesis of the nucleus
22a-3/44	Preparation from starting materials already containing the pyranthrone nucleus
22a-3/46	by halogenation
22a-3/48	Amino derivatives
22a-3/40 22a-3/50	. Dibenzopyrenequinones
22a-3/52	Preparation by synthesis of the nucleus
22a-3/54	Preparation from starting materials already containing the dibenzopyrenequinone nucleus
22a-3/56	Amino derivatives
22a-3/58	Benzanthraquinones
22a-3/60	. Anthanthrones
22a-3/62	Preparation by synthesis of the nucleus
22a-3/64	Preparation from starting materials already containing the anthanthrone nucleus
22a-3/66	by halogenation
22a-3/68	Amino derivatives
22a-3/70	. Benzo-, naphtho-, and anthra-dianthrones
22a-3/72	. Preparation by synthesis of the nucleus
22a-3/74	Preparation from starting materials already containing the benzodianthrone, naphthodianthrone or anthradianthrone nucleus
22a-3/76	by halogenation
22a-3/78	. Other dyes in which the anthracene nucleus is condensed with one or more carbocyclic rings
22a-3/80	Preparation by synthesis of the nucleus
22a-3/82	Preparation from starting materials already containing the condensed anthracene
	nucleus
22a-5/00	Dyes with an anthracene nucleus condensed with one or more heterocyclic rings with or without carbocyclic rings
22a-5/02	. the heterocyclic ring being condensed in peri position
22a-5/02 22a-5/04	. The freterocyclic fing being condensed in pen position  Pyrazolanthrones
22a-5/04 22a-5/06	· · · · · · · · · · · · · · · · · · ·
	Benzanthronyl-pyrazolanthrone condensation products
22a-5/08	Dipyrazolanthrones
22a-5/10	Isothiazolanthrones; Isoxazolanthrones; Isoselenazolanthrones
22a-5/12	Thiophenanthrones
22a-5/14	Benz-azabenzanthrones (anthrapyridones)
22a-5/16	Benz-diazabenzanthrones, e.g. anthrapyrimidones
22a-5/18	Coeroxene; Coerthiene; Coeramidene; Derivatives thereof
22a-5/20	Flavanthrones
22a-5/22	Preparation from starting materials already containing the flavanthrone nucleus
22a-5/24	. the heterocyclic ring(s) being condensed with an anthraquinone nucleus in 1-2 and/or 2-3 position
22a-5/26	. Carbazoles of the anthracene series

22a-5/28	Anthrimide carbazoles
22a-5/30	1.2 azoles of the anthracene series
22a-5/32	1.3 azoles of the anthracene series
22a-5/34	Anthraquinone acridones and thioxanthones
22a-5/36	Amino acridones
22a-5/38	Compounds containing acridone and carbazole rings
22a-5/40	Condensation products of benzanthronyl-amino-anthraquinones
22a-5/42	Pyridino anthraquinones
22a-5/44	Azines of the anthracene series
22a-5/46	Para-diazines
22a-5/48	Bis-anthraquinonediazines (indanthrone)
22a-5/50	Preparation by alkaline melting of 2-amino-anthraquinones
22a-5/52	Preparation by condensation of 1.2-halogeno-amino-anthraquinones
22a-5/54	Preparation by condensation of 1.2-halogeno-antino-antinaquinones
22a-5/56	Preparation from starting materials already containing the indanthrene
22a-5/50	· · · · · · · · · · · · · · · · · · ·
222 5/50	nucleus
22a-5/58	by halogenation
22a-5/60	Thiazines; Oxazines
22a-5/62	. Cyclic imides and amidines of peri-dicarboxylic acids of the anthracene,
	benzanthrene, and perylene series
22a-7/00	Indigoid dyes
22a-7/02	. Bis-indole indigos
22a-7/02 22a-7/04	Halogenation thereof
22a-7/06	. Indone-thionaphthene indigos
22a-7/08	. Other indole-indigos
22a-7/10	. Bis-thionaphthene indigos
22a-7/12	. Other thionaphthene indigos
22a-9/00	Esters and ester-salts of leuco compounds of vat dyestuffs
22a-9/02	
22a-9/02 22a-9/04	. of anthracene dyes
22a-9/04	. of anthracene dyes . of indigoid dyes
	<ul><li>of anthracene dyes</li><li>of indigoid dyes</li></ul> Diaryl- and triarylmethane dyes
22a-9/04	. of anthracene dyes . of indigoid dyes
22a-9/04 <b>22a-11/00</b>	<ul><li>of anthracene dyes</li><li>of indigoid dyes</li></ul> Diaryl- and triarylmethane dyes
22a-9/04 <b>22a-11/00</b> 22a-11/02	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> </ul>
22a-9/04 <b>22a-11/00</b> 22a-11/02 22a-11/04	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> </ul>
22a-9/04 <b>22a-11/00</b> 22a-11/02 22a-11/04	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to</li> </ul>
22a-9/04 <b>22a-11/00</b> 22a-11/02 22a-11/04 22a-11/06	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> </ul>
22a-9/04 22a-11/00 22a-11/02 22a-11/04 22a-11/06 22a-11/08 22a-11/10	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> </ul>
22a-9/04 22a-11/00 22a-11/02 22a-11/04 22a-11/06 22a-11/08 22a-11/10 22a-11/12	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> </ul>
22a-9/04 22a-11/00 22a-11/02 22a-11/04 22a-11/06 22a-11/08 22a-11/10	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives</li> </ul>
22a-9/04 22a-11/00 22a-11/02 22a-11/06 22a-11/08 22a-11/10 22a-11/12 22a-11/14	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> </ul>
22a-9/04 22a-11/00 22a-11/02 22a-11/06 22a-11/06 22a-11/10 22a-11/10 22a-11/14 22a-11/16	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> </ul>
22a-9/04 22a-11/00 22a-11/02 22a-11/06 22a-11/06 22a-11/10 22a-11/10 22a-11/14 22a-11/16 22a-11/18	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/18 22a-11/20	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/18 22a-11/20 22a-11/22	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/18 22a-11/20 22a-11/22 22a-11/24	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/18 22a-11/20 22a-11/24 22a-11/26	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/20 22a-11/20 22a-11/24 22a-11/26 22a-11/28	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/18 22a-11/20 22a-11/24 22a-11/26	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/20 22a-11/20 22a-11/24 22a-11/26 22a-11/28	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/20 22a-11/20 22a-11/24 22a-11/26 22a-11/28  22a-13/00	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic</li> </ul> Oxyketone dyes
22a-9/04  22a-11/00 22a-11/02 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/20 22a-11/20 22a-11/24 22a-11/26 22a-11/28  22a-13/00 22a-13/02	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic</li> </ul> Oxyketone dyes <ul> <li>of the naphthalene series (e.g. naphthazarin)</li> <li>of the pyrene series</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/18 22a-11/20 22a-11/24 22a-11/26 22a-11/28  22a-13/00 22a-13/04 22a-13/06	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic</li> </ul> Oxyketone dyes <ul> <li>of the naphthalene series (e.g. naphthazarin)</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/18 22a-11/20 22a-11/24 22a-11/26 22a-11/28  22a-13/00 22a-13/04 22a-13/06	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic</li> <li>Pyronines</li> </ul> Oxyketone dyes <ul> <li>of the naphthalene series (e.g. naphthazarin)</li> <li>of the pyrene series</li> <li>of the acetophenone series</li> </ul>
22a-9/04  22a-11/00 22a-11/02 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/18 22a-11/20 22a-11/22 22a-11/24 22a-11/26 22a-11/28  22a-13/00 22a-13/00 22a-13/06  Acridine, azi 22a-15/00	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic Pyronines</li> </ul> Oxyketone dyes <ul> <li>of the naphthalene series (e.g. naphthazarin)</li> <li>of the pyrene series</li> <li>of the acetophenone series</li> </ul> ne, oxazine, and thiazine dyes Acridine dyes
22a-9/04  22a-11/00 22a-11/04 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/18 22a-11/20 22a-11/24 22a-11/26 22a-11/28  22a-13/00 22a-13/02 22a-13/06  Acridine, azi 22a-15/00  22a-17/00	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation by oxidation</li> <li>Preparation form other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic</li> <li>Pyronines</li> </ul> Oxyketone dyes <ul> <li>of the naphthalene series (e.g. naphthazarin)</li> <li>of the pyrene series</li> <li>of the acetophenone series</li> </ul> ne, oxazine, and thiazine dyes Acridine dyes Azine dyes
22a-9/04  22a-11/00 22a-11/02 22a-11/06  22a-11/08 22a-11/10 22a-11/12 22a-11/14  22a-11/16 22a-11/18 22a-11/20 22a-11/22 22a-11/24 22a-11/26 22a-11/28  22a-13/00 22a-13/00 22a-13/06  Acridine, azi 22a-15/00	<ul> <li>of anthracene dyes</li> <li>of indigoid dyes</li> </ul> Diaryl- and triarylmethane dyes <ul> <li>derived from diarylmethanes</li> <li>derived from triarylmethanes</li> <li>Hydroxy derivatives of triarylmethanes in which at least one OH group is bound to an aryl nucleus</li> <li>Phthaleins</li> <li>Amino derivatives of triarylmethanes</li> <li>without any OH group bound to an aryl nucleus</li> <li>Preparation from aromatic aldehydes, aromatic carboxylic acids or derivatives thereof, and aromatic amines</li> <li>Preparation from diarylketones or diarylcarbinols</li> <li>Preparation from other triarylmethane derivatives</li> <li>containing OH groups bound to an aryl nucleus</li> <li>Phthaleins containing amino groups</li> <li>Triarylmethane dyes in which at least one of the aromatic nuclei is heterocyclic Pyronines</li> </ul> Oxyketone dyes <ul> <li>of the naphthalene series (e.g. naphthazarin)</li> <li>of the pyrene series</li> <li>of the acetophenone series</li> </ul> ne, oxazine, and thiazine dyes Acridine dyes

22a-17/06 . Fluorindine and its derivatives 22a-19/00 Oxazine dyes 22a-19/02 . Bisoxazines prepared from aminoquinones 22a-21/00 Thiazine dyes Quinoline and polymethine dyes 22a-23/00 Methine or polymethine dyes [cyanines, etc.] . the polymethine chain containing an odd number of CH groups 22a-23/02 22a-23/04 . . one CH group (cyanines, isocyanines, pseudocyanines) 22a-23/06 . . three CH groups (carbocyanines) 22a-23/08 . . more than three CH groups (polycarbocyanines) 22a-23/10 . the polymethine chain containing an even number of CH groups; Merocyanines 22a-23/12 . the polymethine chain being branched 22a-23/14 . Styryl dyes 22a-23/16 . the polymethine chain containing hetero atoms 22a-25/00 Quinophthalones Azo dyes 22a-27/00 Preparations in which the azo group is formed in any way other than by diazotising and coupling 22a-27/02 . Stilbene dyes 22a-27/04 . Hydrazone dyes; Tartrazines 22a-29/00 Monoazo dyes prepared by diazotising and coupling . from diazotised o-amino-hydroxy compounds 22a-29/02 from diazotised o-amino-carboxylic acids 22a-29/04 22a-29/06 . from coupling components containing amino as the only directing group 22a-29/08 . . amino-benzenes 22a-29/10 . from coupling components containing hydroxyl as the only directing group 22a-29/12 . . of the benzene series 22a-29/14 . . . Hydroxy-carboxylic acids 22a-29/16 . . hydroxy-naphthlene sulphonic acids 22a-29/18 . . ortho-hydroxy carbonamides 22a-29/20 . . . of the naphthalene series 22a-29/22 . . . of heterocyclic compounds . from coupling components containing both hydroxyl and amino directing groups 22a-29/24 . . Amino-phenols 22a-29/26 22a-29/28 . . Amino-naphthols . . . Amino-naphtholsulphonic acid 22a-29/30 . from coupling components containing a reactive methylene group 22a-29/32 22a-29/34 . from other coupling components . . from heterocyclic compounds 22a-29/36 22a-29/38 . . . pyrazolones 22a-31/00 Disazo and polyazo dyes of the type  $A \rightarrow B \rightarrow C$ ,  $A \rightarrow B \rightarrow C \rightarrow D$ , etc., prepared by diazotising and coupling 22a-31/02 . Disazo dyes . . from a coupling component "C" containing a directive amino group 22a-31/04 . . from a coupling component "C" containing a directive hydroxyl group 22a-31/06 . . from a coupling component "C" containing directive hydroxyl and amino groups 22a-31/08 . . from a coupling component "C" containing reactive methylene groups 22a-31/10 22a-31/12 . . from other coupling components "C" . . . heterocyclic components 22a-31/14 . Trisazo dyes 22a-31/16 . . from a coupling component "D" containing a directive amino group 22a-31/18 . . from a coupling component "D" containing a directive hydroxyl group 22a-31/20 22a-31/22 . . from a coupling component "D" containing directive hydroxyl and amino groups 22a-31/24 . . from a coupling component "D" containing reactive methylene groups 22a-31/26 . . from other coupling components "D"

22a-31/28 22a-31/30	heterocyclic compounds . Other polyazo dyes
22a-33/00	Disazo and polyazo dyes of the types $A \to K \leftarrow B$ , $A \to B \to K \leftarrow C$ , etc., prepared by diazotising and coupling
22a-33/02	. Disazo dyes
22a-33/04	in which the coupling component is a dihydroxy or polyhydroxy compound
22a-33/06	in which the coupling component is a diamine or polyamine
22a-33/08	in which the coupling component is a hydroxy-amino compound
22a-33/10	in which the coupling component is an amino-naphthol
22a-33/12	in which the coupling component is a heterocyclic compound
22a-33/14	in which the coupling component is an arylamide of an o-hydroxycarboxylic acid or
	of a "-keto-carboxylic acid
22a-33/16	from other coupling components
22a-33/18	. Trisazo or higher polyazo dyes of the types $A \to B \to K \leftarrow C$ , $A \to B \to C \to K \leftarrow D$
	and $A \rightarrow B \rightarrow K \leftarrow C \leftarrow D$
	AVEC
22a-33/20	A K C  Trisazo and higher polyazo dyes of the types B R prepared by diazotising
22a-35/00	Disazo and polyazo dyes of the type $A \leftarrow D \rightarrow B$ prepared by diazotising
	and coupling
22a-35/02	. Disazo dyes
22a-35/04	the tetrazo component being a benzene derivative
22a-35/06	the tetrazo component being a naphthalene derivative
22a-35/08	the tetrazo component being a derivative of biphenyl
22a-35/10	from two coupling components of the same type
22a-35/12	from amines
22a-35/14	from hydroxy compounds
22a-35/16	from hydroxy-amines
22a-35/18	from heterocyclic compounds
22a-35/20	from two coupling compounds of different types
22a-35/22	the tetrazo component being a derivative of a diaryl ether
22a-35/24	the tetrazo component being a derivative of a diaryl amine
22a-35/26	the tetrazo component being a derivative of a diaryl urea
22a-35/28	the tetrazo component containing two aryl nuclei linked together by a COHN group
22a-35/30	from two identical coupling components
22a-35/32	from two different coupling components
22a-35/34	the tetrazo component being heterocyclic
220 25/20	. Trisazo and higher polyazo dyes of the type D ← E (→F)
22a-35/36	. Trisazo and higher polyazo dyes of the type TE(→F)
22a-35/38	. Trisazo dyes ot the types $K \leftarrow A$
22a-35/36 22a-35/40	the component K being a dihydroxy or polyhydroxy compound
22a-35/42	the component K being a dimydroxy or polymydroxy compound
22a-35/44	the component K being a hydroxy-amine
22a-35/46	the component K being an amino-naphthol
22a-35/48	the component K being beterocyclic
	D≠K←A D≠K←A
22a-35/50	. Higher polyazo dyes of the type $D \subset K_1 \leftarrow B$ or $B \rightarrow K_1$
22a-37/00	Azo dyes prepared by coupling the diazotised amine with itself
22a-39/00	Other azo dyes prepared by diazotising and coupling
22a-41/00	Special methods of performing the coupling reaction
<b>22a-43/00</b> 22a-43/02 22a-43/04 22a-43/06 22a-43/08	Preparation of azo dyes from other azo compounds . by sulphonation . by nitration . by oxidation . by reduction
22a-43/10	with formation of a new azo or an azoxy bridge
	,

22a-43/12	. by acylation of amino groups
22a-43/14	with phosgene or thiophosgene
22a-43/16	linking amino-azo compounds with other amino compounds by a heterocyclic
00- 40/40	residue, e.g. a cyanuric acid residue
22a-43/18	. by acylation of hydroxyl groups
22a-45/00	Complex metal compounds of azo dyes
22a-45/02	. Preparation from o.o1-dihydroxy, o-hydroxy-o1-alkoxy or o-hydroxy o1-carboxy azo
	compounds
22a-45/04	Azo compounds in general
22a-45/06	Chromium compounds
22a-45/08	Copper compounds
22a-45/10	Cobalt compounds
22a-45/12	other metal compounds
22a-45/14	Monoazo compounds
22a-45/16	containing chromium
22a-45/18	containing copper
22a-45/20	containing cobalt
22a-45/22	containing other metals
22a-45/24	Disazo and polyazo compounds
22a-45/26 22a-45/28	containing chromium containing copper
22a-45/30	containing copper
22a-45/32	containing codait containing other metals
22a-45/34	. Preparation from o-monohydroxy azo compounds having in the o1-position an atom
	or group other than OH, OR or COOH
22a-45/36	by oxidation of hydrogen in o1 position
22a-45/38	. Preparation from compounds with OH and COOH adjacent in the same ring or in
	peri position
22a-45/40	Chromium compounds
22a-45/42	Copper compounds
22a-45/44	Cobalt compounds
22a-45/46	. Other metal compounds
22a-45/48	. Preparation from other complex metal compounds of azo dyes
22a-47/00	Porphyrins; Phorphyrazines
22a-47/02	. Tetrazaporphyrins
22a-47/04	Phthalocyanines
22a-47/06	Preparation from carboxylic acids or their amides
22a-47/08	Preparation from other phthalocyanine compounds
22a-47/10	by halogenation
22a-48/00	Quinacridones
22a-49/00	Sulphur dyes
22a-49/02	. from nitro compounds of the benzene, naphthalene and anthracene series
22a-49/04	. from amino compounds of the benzene, naphthalene and anthracene series
22a-49/06	. from azines, oxazines, thiazines, and thiazoles
22a-49/08	. from urea derivatives
22a-49/10	. from diphenylamines, indamines, and indophenols
22a-49/12	. from other compounds
Other organi	<u>c dyes</u>
22a-51/00	Nitro and nitroso dyes
22a-53/00	Quinone imides
22a-53/02	. Indamines; Indophenols
22a-55/00	Azomethine dyes
22a-57/00	Other synthetic dyes of known constitution
22a-59/00	Artificial dyes of unknown constitution

22a-61/00	Dyes of natural origin prepared from natural sources
22a-62/00	Reactive dyes, i.e. dyes which form covalent bonds with the substrate
22a-62/02	. with the reactive group directly attached to a heterocyclic ring
22a-62/04	to a triazine ring
22a-62/06	Anthracene dyes
22a-62/08	Azo dyes
22a-62/10	Porphyrins; Porphyrazins
22a-62/12	to a pyridazine ring
22a-62/14	Anthracene dyes
22a-62/16	Azo dyes
22a-62/18	
22a-62/20	to a pyrimidine ring
22a-62/22	
22a-62/24	· · · · · · · · · · · · · · · · · · ·
22a-62/26	
22a-62/28	. to a pyrazine ring
22a-62/30	Anthracene dves
22a-62/32	Azo dyes
22a-62/34	Porphyrins; Porphyrazins
22a-62/36	to some other heterocyclic ring
22a-62/38	Anthracene dyes
22a-62/40	Azo dyes
22a-62/42	Porphyrins; Porphyrazins
22a-62/44	. with the reactive group not directly attached to a heterocyclic ring
22a-62/46	the reactive group being a halogen atom
22a-62/48	Anthracene dyes
22a-62/50	Azo dyes
22a-62/52	Porphyrins; Porphyrazins
22a-62/54	the reactive group being an epoxy group
22a-62/56	Anthracene dyes
22a-62/58	Azo dyes
22a-62/60 22a-62/62	Porphyrins; Porphyrazins
	the reactive group being an ethylenimino or ethylenimido group
22a-62/64	Anthracene dyes
22a-62/66	Azo dyes
22a-62/68	Porphyrins; Porphyrazins
22a-62/70	
	hydroxyalkyl group (62/46 takes precedence)
22a-62/72	Anthracene dyes
22a-62/74	Azo dyes
22a-62/76	Porphyrins; Porhyrazins
22a-62/78	with other reactive groups
22a-62/80	Anthracene dyes
22a-62/82	Azo dyes
22a-62/84	Porphyrins; Porphyrazins
	ants; Dyestuff preparations
22a-63/00	Lakes
22a-65/00	Compositions containing mordants (preparation of the mordant compound 12)
22a-67/00	Influencing the physical, e.g. the dyeing or printing, properties of dyestuffs without chemical reaction, e.g. by treating with solvents; Process features in the making of dyestuff preparations; Dyestuff preparations of a special physical nature, e.g. tablets, films

22b	Acridines, anthracene dyes, di- and triarylmethane dyes, phthaleins, pyronines, oxyketone dyes
22b-1	Acridine dyes
	Anthracene dyes
	Nitrogen-free anthracene dyes
22b-2/01	Hydroxy and mercapto anthraquinones
22b-2/02	Di-, isodibenzanthrones
22b-2/03	Pyranthrones
22b-2/04	Dibenzopyrenequinones
22b-2/05	Other condensed carbocyclic ring systems derived from anthraquinones, e.g. benzanthraquinones, anthanthrones, benzo-, naphto-, anthradianthrones
22b-2/06	Anthraquinone thioanthones
22b-2/07	Other nitrogen-free anthracene dyes
	Nitrogen-containing anthracene dyes
22b-3/01	Aminoanthraquinones, aminohydroxyanthraquinones
22b-3/02	Alkyl-, arylaminoanthraquinones (anthrimides 22b-3/04)
22b-3/03	Acylaminoanthraquinones, also urea, thiourea, and cyanuric acid derivatives
22b-3/04	Anthrimides
22b-3/05	Anthrimidocarbazols
22b-3/06	Anthraquinone azines
22b-3/07	Flavanthrones
22b-3/08	Anthraquinone acridones and anthraquinone thioxanthones
22b-3/09	Di-, isobenzanthrones
22b-3/10	Pyranthrones
22b-3/11	Dibenzpyrene quinones
22b-3/12	Other condensed carbocyclic ring systems derived from anthraquinones, e.g. benzanthraquinones, anthanthrones, benzo-, naphtho-, anthradianthrones
22b-3/13	Pyrazolanthrones
22b-3/14	Other heterocyclic anthrones
22b-3/15	Anthraquinones with heterocyclic ring systems (carbazols 22b-3/05; azines 22b-3/06; flavanthrones 22b-3/07; acridones and thioxanthones 22b-3/08; anthrones 22b-3/13 – 22b-3/14)
22b-3/16	Anthracene dyes with several different heterocyclic rings
22b-3/17	Other nitrogen-containing anthracene dyes
	Di- and triarylmethane dyes, hydroxyketone dyes
22b-4	Diarylmethane dyes: auramines
22b-5	Hydroxyketone dyes derived from naphthalenes and pyrenes
22b-6	Hydroxyketone dyes derived from acetophenones
22b-7	Phthaleins without amino groups
22b-8	Phthaleins with amino groups
22b-9	Pyronines: xanthenes
22b-10	Triarylmethane dyes derived from aldehydes
22b-11	Triarylmethane dyes derived from aromatic ketones
22b-12	Triarylmethane dyes derived from hydroles
22b-13	Triaylemethane dyes obtained by oxidation
22b-14	Triarylmethane dyes from three components, except aldehydes and dyes obtained by the oxydation method
22b-15	Conversion products of simple triarylmethane dyes, except sulfonic acids
22b-16	Sulfonic acids from triarylmethane dyes
22b-17	Processing of residues from the production of triarylmethane dyes

22c	Azines, oxazines, thiazines, indulines, safranines, eurhodines, indophenols
22c-1	Azines of the benzene series, e.g. eurhodines, safranines, indulines of the benzene series
22c-2	Azines of the naphthalene series, rosindulines
22c-3	Phenanthrazines
22c-4	Oxazines
22c-5	Thiazines
22c-6	Indophenols (12q-1; 12q-32; 12q-34; 22d-5)
22d	Sulfur-containing dyes
22d-1	Sulfur dyes obtained from amino- and nitroamino compounds of the benzene and naphthalene series, possibly also of the anthracene series
22d-2	Sulfur dyes from nitrocompounds of the benzene-, naphthalene and anthracene series
22d-3	Sulfur dyes from azine, oxazine, thiazine, and thiazole derivatives
22d-4	Sulfur dyes from urea derivatives
22d-5	Sulfur dyes from indamine, indophenol, and diphenylamine derivatives
22d-6	Sulfur dyes from other than said compounds
22e	Indigo, thioindigo and other dyes, except 22a – 22d
22e-1	Indigo, both natural and synthetic
22e-2	Natural dyes, except indigo
22e-3	Quinoline dyes
22e-4	Nitro, and nitroso dyes
22e-5	Dyes obtained by fermentation, except indigo
22e-6	Synthetic organic dyes of unknown constitution
22e-7/01	Thioindigoid dyes
22e-7/02	Other organic dyes, e.g. phtihalocyanines
22f	Pigments: mineral and bronze dyes, lakes
22f-1	White lead
22f-2	Lead sulfate
22f-3	Litharge, minimum, lead chromate and other lead dyes not mentioned under 22f-1 or 22f-2
22f-4	Zinc dyes, except zinc sulfide, etc.
22f-5	Zinc sulfide, e.g. lithopones
22f-6	Baryte and lime dyes
22f-7	Iron, chromic oxide and titanium-base dyes (12i-39)
22f-8	Ultramarine
22f-9	Silicate dyes, except ultramarines
22f-10	Miscellaneous pigments
22f-11	Electrolytic preparation of pigment dyes, e.g. white lead
22f-12	Lakes
22f-13	Bronze powders, brocade dyes
22f-14	Carbon black (12i-33)
22f-15	Luminescent dyes

## 22f (IPC: C09C) Preparation of inorganic pigments or non-fibrous fillers; Treatment of inorganic materials, other than fibrous fillers, to enhance their pigmenting or filling properties

## Note:

In the absence of a reference to the contrary, a compound not specifically mentioned is classified in the last appropriate place.

	specifically mentioned is classified in the last appropriate place.
22f-1/00	Preparation of treatment of specific inorganic pigments or non-fibrous fillers
22f-1/02	. compounds of alkaline earth metals or magnesium
22f-1/04	. compounds of zinc
22f-1/04 22f-1/06	lithopone
22f-1/08	zinc chromate
22f-1/10	. compounds of cadmium
22f-1/12	cadmium sulphoselenide
22f-1/14	. compounds of lead
22f-1/16	white lead
22f-1/18	red lead
22f-1/20	lead chromate
22f-1/22	. compounds of iron
22f-1/24	oxides of iron
22f-1/26	iron blues
22f-1/28	. compounds of silicon
22f-1/30	silicic acid
22f-1/32	ultramarine
22f-1/34	. compounds of chromium
22f-1/36	. compounds of titanium
22f-1/38	. compounds of mercury
22f-1/40	. compounds of aluminium
22f-1/42	clays (preparatory treatment for clay wares 80b-12/01)
22f-1/44	pigments or fillers of the carbon type
22f-1/46	. graphite (preparation of graphite 12i-31/04)
22f-1/48	graphile (preparation of graphile 121-31/04) carbon black
22f-1/50	furnace black
22f-1/52	channel black
22f-1/54	acetylene black; thermal black
22f-1/56	Treatment of carbon black
22f-1/58	Agglomerating, pelleting, and the like by wet methods
22f-1/60	Agglomerating, pelleting, and the like by dry methods
22f-1/62	. metallic pigments or fillers (obtaining metal powder, see the relevant class for the method used, e.g. 31b2-23/08, 31b3-9/00, 18a-15/02, 40a-5/20, 40c-5/00)
22f-1/64	aluminium
22f-1/66	copper alloys, e.g. bronze
22f-1/68	. loose abrasive particles
22f-3/00	Treatment in general of inorganic pigments or of non-fibrous fillers to enhance their pigmenting or filling properties (dyeing macromolecular particles 8m; other methods of colouring macromolecular particles 39b)
22f-3/02	. Improving the dispersing properties
<b>22</b> g	Inks, marking dyes, artists' paints, pearl essence, dye binders, shoe creams, polishing waxes, paints, embossing sheets, mordants, cleaning, polishing, and finishing materials
22g-1	Inks, marking dyes (inks and colours for printing, stamp inks, 15I-7)
22g-2/01	Artists' paints, e.g. water colours, resin, oil and emulsion paints, liquid bronzes, materials for black and colour pencil leads or for slate pencils, chemical section (mechanical section 70a-1/02; painting technique 75c-1; ceramic paints 80b-23)
22g-2/02	Pearl essence

22g-3	Paint binders (lacquers 22h-3, 22h-4)
22g-5/01	Leather paints (lacquers 22h-3, 22h-4; impregnation of leather 28a-9; painting processes 75c-5/03)
22g-5/02	Shoe-preserving materials (preservation of leather 28a-9)
22g-5/03	Adhesive materials for belts
22g-6/01	Wood paints (wood-preserving agents 38h-2; painting processes 75c-5/02)
22g-6/02	Polishing materials (polishers 34c-8); ski lubricants, ski waxes (devices for waxing and treating snowshoes 77b-15/09, 77b-11/04, 77b-11/68)
22g-6/03	Pore-filling materials (primers and surfacing agents 22h-5)
22g-7/01	Paints for metals, general (painting processes 75c-5/04)
22g-7/02	Rust and corrosion protection paints (corrosion protection by chemical surface treatment 48d-3, 48d-4, 48d1-13/00)
22g-8	Paints for artificial stone surfaces (painting processes 75c-5/07)
22g-9/01	Paints for roofs and other insulating surfaces (manufacture of roofing pasteboard, chemical section 8I-3; mechanical section 55f-14; insulating compounds, electric 21c-2; acoustic and thermal insulating materials 39b-16 – 39b-26; 80b-9; for pipes 47f-27)
22g-9/02	Paints for paper (coloured paper 55f-2)
22g-10/01	Paints, in general and for miscellaneous purposes (lacquers 22h-3, 22h-4; painting processes 75c-5/01)
22g-10/02	Paints containing luminescent and warning colours
22g-10/03	Paints for glass panes as protection against fogging or icing (mechanical section 37d-16; 34c-3)
22g-10/04	Embossing sheets (gelatine sheets 22i-7; 39a-18, 39a2-17/00, 39a3-7/00; manufacture of foils from cellulose derivatives 39b-12; methods for lacquering foils 75c-5/06; use of colour foils for printing purposes 15l-2; 15k-5; application of foils 75c-4/01)
22g-11	Blackboard paints (children's slates and writing surfaces for blackboards 70e-1, 70e-2)
9	blackboard paints (children's states and writing surfaces for blackboards 70e-1, 70e-2)
22g-13	Mordants for paints, lacquer coatings, etc.
-	• • •
22g-13	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms
22g-13 22g-14	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-
22g-13 22g-14 <b>22g</b>	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)
22g-13 22g-14 <b>22g 22g-1/00</b> 22g-1/02 22g-1/04	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)
22g-13 22g-14 22g  22g-1/00  22g-1/02 22g-1/04 22g-1/06	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . cement
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/08	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . cement  . with organic additives
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . cement  . with organic additives . lime
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10 22g-1/12	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . with organic additives  . lime  . with organic additives
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10 22g-1/12 22g-3/00	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . cement  . with organic additives  . lime  . with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10 22g-1/12 22g-3/00 22g-3/02	Mordants for paints, lacquer coatings, etc.  Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . with organic additives  . with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances  . proteins
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/10 22g-1/12 22g-3/00 22g-3/02 22g-3/04	Mordants for paints, lacquer coatings, etc. Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic filmforming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . with organic additives  . with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances  . proteins  . gelatine or derivatives
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10 22g-1/12 22g-3/00 22g-3/02 22g-3/04 22g-3/06	Mordants for paints, lacquer coatings, etc. Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic filmforming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . with organic additives  . lime  . with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances  . proteins  . gelatine or derivatives  . casein or derivatives
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/10 22g-1/12 22g-3/00 22g-3/02 22g-3/04	Mordants for paints, lacquer coatings, etc. Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic filmforming substances (80b takes precedence)  . alkali metal silicates  . with organic additives  . with organic additives  . with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances  . proteins  . gelatine or derivatives
22g-13 22g-14 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10 22g-1/12 22g-3/00 22g-3/00 22g-3/06 22g-3/08 22g-3/08 22g-3/08 22g-3/10 22g-3/10 22g-3/10	Mordants for paints, lacquer coatings, etc. Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic filmforming substances (80b takes precedence)  . alkali metal silicates with organic additives . with organic additives . lime with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances . proteins gelatine or derivatives casein or derivatives prolamine or derivatives polysaccharides cellulose derivatives
22g-1/00  22g-1/00  22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10 22g-1/12 22g-3/00  22g-3/02 22g-3/04 22g-3/06 22g-3/08 22g-3/08 22g-3/10 22g-3/10 22g-3/12 22g-3/14	Mordants for paints, lacquer coatings, etc. Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates . with organic additives . cement . with organic additives . lime . with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances . proteins . gelatine or derivatives . casein or derivatives . prolamine or derivatives . prolamine or derivatives . polysaccharides . cellulose derivatives . cellulose esters
22g-1/00  22g-1/00  22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10 22g-1/12 22g-3/00  22g-3/02 22g-3/04 22g-3/06 22g-3/08 22g-3/10 22g-3/10 22g-3/10 22g-3/16	Mordants for paints, lacquer coatings, etc. Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates  . with organic additives . cement  . with organic additives . lime  . with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances . proteins  . gelatine or derivatives . casein or derivatives . prolamine or derivatives . prolamine or derivatives . polysaccharides . cellulose derivatives . cellulose esters nitrocellulose
22g-13 22g-14 22g 22g-1/00 22g-1/02 22g-1/04 22g-1/06 22g-1/08 22g-1/10 22g-1/12 22g-3/00 22g-3/02 22g-3/04 22g-3/06 22g-3/08 22g-3/08 22g-3/10 22g-3/10 22g-3/12 22g-3/14	Mordants for paints, lacquer coatings, etc. Scouring, polishing, and cleaning materials, also abrasive pastes (abrasives 39b, 67c, 80b-11; polishes 22h-5; washing agents 23e-2; cleaning substances for printing forms 15l-6/03; soap preparations 23e-2)  (IPC: C09D) Inks; Paints; Varnishes; Lacquers; Chemical paint removers; Pastes and solids for colouring or printing (cosmetics 30h; painting, decorating 75; textile-treating compositions 8)  Paints, varnishes, or lacquers essentially based on inorganic film-forming substances (80b takes precedence)  . alkali metal silicates . with organic additives . cement . with organic additives . lime . with organic additives  Paints, varnishes, or lacquers essentially based on organic film-forming substances . proteins . gelatine or derivatives . casein or derivatives . prolamine or derivatives . prolamine or derivatives . polysaccharides . cellulose derivatives . cellulose esters

22g-3/22	dextran or derivatives
22g-3/24	. liquid bituminous materials
22g-3/26	. drying-oils
22g-3/28	natural or modified oils
22g-3/30	linseed oil
22g-3/32	stand oils
22g-3/34	oils with conjugated double bonds
22g-3/36	. rubber or derivatives
22g-3/38	chlorinated rubber
22g-3/40	. natural resins or derivatives
22g-3/42	with fatty material
22g-3/44	with wax material
22g-3/46	with bituminous material
22g-3/48	. essentially based on wholly synthetic film-forming substances
22g-3/50	aminoplasts
22g-3/52	in combination with other plastics
22g-3/54	phenoplasts
22g-3/56	in combination with other plastics
22g-3/58	epoxy resins
22g-3/60	hydrocarbon resins
22g-3/62	ketone resins
22g-3/64	polyesters, e.g. alkyd resins
22g-3/66	in combination with other plastics
22g-3/68	unsaturated polyesters
22g-3/70	polyamides
22g-3/72	polyurethanes
22g-3/74	vinyl resins
22g-3/76	in combination with other plastics
22g-3/78	fluorine-containing
22g-3/80	polyacrylates
22g-3/82	resins containing silicon in their structure
22g-3/84	resins containing titanium in their structure
22g-5/00	Paints, varnishes, or lacquers classified according to their physical
22g-3/00	nature or to the effects produced
22g-5/02	. Emulsion paints
22g-5/04	. Thixotropic paints
22g-5/06	. Artists' paints
22g-5/08	. Anti-corrosive paints
22g-5/10	containing metal dust
22g-5/10 22g-5/12	Wash primers
22g-5/14	. Paints containing fungicides or insecticides; Anti-fouling paints; Ship's bottom paints
22g-5/16	Ship's bottom paints
22g-5/18	. Fireproof paints
22g-5/20	. for coatings strippable as coherent films
22a-5/22	Luminous naints
22g-5/22	. Luminous paints
22g-5/24	. Electrically-conducting paints
22g-5/24 22g-5/26	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> </ul>
22g-5/24 22g-5/26 22g-5/28	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32 22g-5/34	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> <li>Filling pastes, e.g. putties</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32 22g-5/34 22g-5/36	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> <li>Filling pastes, e.g. putties</li> <li>Pearl essence</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32 22g-5/34 22g-5/36 <b>22g-7/00</b>	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> <li>Filling pastes, e.g. putties</li> <li>Pearl essence</li> </ul> Other features (driers 22h1-9/00)
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32 22g-5/34 22g-5/36 <b>22g-7/00</b> 22g-7/02	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> <li>Filling pastes, e.g. putties</li> <li>Pearl essence</li> <li>Other features (driers 22h1-9/00)</li> <li>Use of compounds as anti-settling agents</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32 22g-5/34 22g-5/36 <b>22g-7/00</b> 22g-7/02 22g-7/04	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> <li>Filling pastes, e.g. putties</li> <li>Pearl essence</li> </ul> Other features (driers 22h1-9/00) <ul> <li>Use of compounds as anti-settling agents</li> <li>Use of compounds as anti-skinning agents</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32 22g-5/34 22g-5/36 <b>22g-7/00</b> 22g-7/02 22g-7/04 22g-7/06	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> <li>Filling pastes, e.g. putties</li> <li>Pearl essence</li> <li>Other features (driers 22h1-9/00)</li> <li>Use of compounds as anti-settling agents</li> <li>Use of compounds as levelling agents</li> <li>Use of compounds as levelling agents</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32 22g-5/34 22g-5/36 <b>22g-7/00</b> 22g-7/02 22g-7/04 22g-7/06 22g-7/08	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> <li>Filling pastes, e.g. putties</li> <li>Pearl essence</li> </ul> Other features (driers 22h1-9/00) <ul> <li>Use of compounds as anti-settling agents</li> <li>Use of compounds as levelling agents</li> <li>Pigment pastes</li> </ul>
22g-5/24 22g-5/26 22g-5/28 22g-5/30 22g-5/32 22g-5/34 22g-5/36 <b>22g-7/00</b> 22g-7/02 22g-7/04 22g-7/06	<ul> <li>Electrically-conducting paints</li> <li>Thermosensitive paints</li> <li>for wrinkle, crackle, orange-peel, or similar decorative effects</li> <li>Camouflage paints</li> <li>Radiation-absorbing paints</li> <li>Filling pastes, e.g. putties</li> <li>Pearl essence</li> <li>Other features (driers 22h1-9/00)</li> <li>Use of compounds as anti-settling agents</li> <li>Use of compounds as levelling agents</li> <li>Use of compounds as levelling agents</li> </ul>

22g-7/14	. Special processes for incorporating ingredients
<b>22g-9/00</b> 22g-9/02 22g-9/04	Chemical paint or ink remover . with abrasives . with surface-active agents
22g-11/00 22g-11/02 22g-11/04 22g-11/06 22g-11/08 22g-11/10 22g-11/12 22g-11/14 22g-11/16 22g-11/18 22g-11/20 22g-13/00	Inks . Printing inks . based on proteins . based on fatty oils . based on natural resins . based on artificial resins . based on waxes or bitumen . based on carbohydrates . Writing inks . for use in ball-point writing instruments . indelible  Pencil-leads; Crayons
22g-15/03	Adhesive materials for belts
22h	Resins, varnishes, lacquers, drying agents, polishes, tar and pitch containing mixtures, synthetic asphalts
22h-1/01 22h-1/02	Natural resins, general (39b-21), turpentine oil recovery Preparation of lacquer raw materials from resin mixtures and from other processed synthetic resins (production of synthetic resins 39c)
22h-2	Varnishes, drying agents (organometallic compounds 12o-26/03), stand oils and equipment for boiling of stand oils (factice 39b-11)
22h-3	Oil lacquers, lacquers prepared from natural or synthetic resins, asphalt lacquers, rubber lacquers, colouring of lacquers (rubber solutions 39b-5; paints 22g)
22h-4	Lacquers prepared from cellulose derivatives, cellulose ester emulsions for lacquers, combined lacquers, colouring of lacquers (lacquering processes 75c-5; leather lacquers 22g-5/01; paints 22g)
22h-5	Polishes, primers, surfacers, polishing processes (pore fillers 22g-6/03)
22h-6 22h-7/01	Sealing wax (39b)  Tar and pitch containing bituminous mixtures and bituminous materials from petroleum
22h-7/02	or similar products (synthetic asphalts 80b-25; plastics 39b-24)  Melting kettles for asphalt, tar or pitch (tar boilers, only for road making 19c-11,
22h-8	19c-19/08) Brewer's pitch
22h1	(IPC: C09F) Natural resins; French polish; Drying-oils; Driers, i.e. siccatives; Turpentine
22h1-1/00	Obtaining, purification, or chemical modification of natural resins, e.g. oleo-resins
22h1-1/02 22h1-1/04	<ul><li>Purification</li><li>Chemical modification, e.g. esterification (resin soaps 23e)</li></ul>
<b>22h1-3/00</b> 22h1-3/02	Obtaining spirits of turpentine . as a by-product in the paper-pulping process
22h1-5/00 22h1-5/02 22h1-5/04 22h1-5/06 22h1-5/08 22h1-5/10 22h1-5/12	Obtaining drying-oils (preparation of synthetic oils by polymerisation or copolymerisation 39b4, by polycondensation 39b5) . from natural sources from cashew nuts . by dehydration of hydroxylated fatty acids or oils . by esterification of fatty acids . Refining by distillation

<b>22h1-7/00</b> 22h1-7/02	Chemical modification of drying-oils (modifying by copolymerisation 39b4; by polycondensation 39b5; factice 39b6)  by oxidising
22h1-7/04 22h1-7/06	by voltolising     by polymerisation
22h1-7/08	. by isomerisation
22h1-7/10 22h1-7/12	. by re-esterification . Apparatus therefor
22h1-9/00	Compounds to be used as driers [siccatives]
22h1-11/00	Preparation of French polish
22h1-12	Equipment for boiling of stand oils
22h1-15	Polishing methods
22h1-17/02	<b>Melting kettles for asphalt, tar or pitch</b> (tar boilers, only for road making 19c-11, 19c-19/08)
22h2	(IPC: C09G) Polishing compositions other than French polish; Ski waxes
22h2-1/00	Polishing compositions (French polish 22h1-11/00; detergents 23e)
22h2-1/02 22h2-1/04	<ul><li>containing abrasives or grinding agents</li><li>Aqueous dispersions (22h2-1/02 takes precedence)</li></ul>
22h2-1/06	. Other polishing compositions
22h2-1/08 22h2-1/10	based on wax based on mixtures of wax and natural or synthetic resin
22h2-1/12	mixtures of wax and silicon-containing polycondensates
22h2-1/14 22h2-1/16	<ul><li> based on non-waxy substances</li><li> on natural or synthetic resins (39b5-47/00 takes precedence)</li></ul>
22h2-1/18	on other substances
22h2-3/00	Ski waxes
LLIIL 0/00	ON WAXOO
22i	Putties, glues and other adhesives, packing materials
	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see
<b>22i</b> 22i-1	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)
<b>22i</b> 22i-1 22i-2	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers
22i 22i-1 22i-2 22i-3 22i-4 22i-5	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue
22i 22i-1 22i-2 22i-3 22i-4 22i-5 22i-6	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue  Liquid glues
22i 22i-1 22i-2 22i-3 22i-4 22i-5	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue
22i 22i-1 22i-2 22i-3 22i-4 22i-5 22i-6 22i-7	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue  Liquid glues  Insoluble gelatines
22i 22i-1 22i-2 22i-3 22i-4 22i-5 22i-6 22i-7 22i-8	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue  Liquid glues  Insoluble gelatines  Shaping of glue and gelatine, also glue-cutting machines
22i 22i-1 22i-2 22i-3 22i-4 22i-5 22i-6 22i-7 22i-8 22i-9 22i1 22i1-1/00	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue  Liquid glues  Insoluble gelatines  Shaping of glue and gelatine, also glue-cutting machines  Glue-drying devices  (IPC: C09H) Preparation of glue or gelatine  Pretreatment of collagen-containing raw materials for the manufacture of glue
22i 22i-1 22i-2 22i-3 22i-4 22i-5 22i-6 22i-7 22i-8 22i-9 22i1	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue  Liquid glues  Insoluble gelatines  Shaping of glue and gelatine, also glue-cutting machines  Glue-drying devices  (IPC: C09H) Preparation of glue or gelatine  Pretreatment of collagen-containing raw materials for the manufacture of
22i 22i-1 22i-2 22i-3 22i-3 22i-4 22i-5 22i-6 22i-7 22i-8 22i-9 22i1 22i1-1/00 22i1-1/04 22i1-3/00	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue  Liquid glues  Insoluble gelatines  Shaping of glue and gelatine, also glue-cutting machines  Glue-drying devices  (IPC: C09H) Preparation of glue or gelatine  Pretreatment of collagen-containing raw materials for the manufacture of glue  . of bones  . of hides, hoofs, or leather scrap (recovery of tanning agents 28a)  Isolation of glue or gelatine from raw materials, e.g. by extracting, by heating (gelatine for foodstuffs 53i)
22i 22i-1 22i-2 22i-3 22i-4 22i-5 22i-6 22i-7 22i-8 22i-9 22i1 22i1-1/00	Putties, glues and other adhesives, packing materials  Putties, packing materials, when prepared by chemical methods (otherwise 47f-22)  Adhesives and adhesive foils, except starch-containing substances (the latter, see 89k-5)  Pre-treatment of glue materials, e.g. leather de-tanning (28a-13), degreasing of bones, maceration  Processes and apparatus for preparation of glue from glue materials, e.g. extractors and boilers  Clarification and bleaching of glue  Liquid glues  Insoluble gelatines  Shaping of glue and gelatine, also glue-cutting machines  Glue-drying devices  (IPC: C09H) Preparation of glue or gelatine  Pretreatment of collagen-containing raw materials for the manufacture of glue  . of bones  . of hides, hoofs, or leather scrap (recovery of tanning agents 28a)  Isolation of glue or gelatine from raw materials, e.g. by extracting, by

22i1-7/00 Preparation of water-insoluble gelatine

22i1-9/00 Drying of glue or gelatine
22i1-9/02 in the form of foils
22i1-9/04 in the form of granules, e.g. beads

22i1-11/00 Adhesives based on glue or gelatine

22i2 (IPC: C09J) The use of materials other than glue as adhesives;
Adhesive processes in general, non-mechanic part

## Note:

Macromolecular adhesive substances or compositions based essentially thereon are always classified as the substance or composition in 39b, but the use of substances or compositions for adhesive purposes is classified here.

<b>22i2-1/00</b> 22i2-1/02	Adhesives, with inorganic adhesive constituents . with water-soluble alkali silicates
22i2-3/00 22i2-3/02 22i2-3/04 22i2-3/06 22i2-3/10 22i2-3/12 22i2-3/14 22i2-3/16 22i2-3/18 22i2-3/20 22i2-3/22 22i2-3/24 22i2-3/26 22i2-3/28 22i2-3/30	Adhesives, other than glue, with organic adhesive constituents  with polysaccharides or their derivatives, e.g. mucilages  cellulose derivatives  starch; dextrine  gum arabic  alginates  with latex or natural or synthetic rubber  with macromolecular polymerisation products  with macromolecular polycondensates  with proteins (glue 22i1)  animal proteins  keratin  casein, blood or blood albumen  with natural gums, waxes, or resins (gum arabic 22i2-3/08)  with lignin  with bitumen, tar, asphalt
22i2-5/00 22i2-5/02 22i2-5/04 22i2-5/06 22i2-5/08 22i2-5/10	Adhesive processes in general; Adhesive processes not provided for elsewhere (devices for applying glue to surfaces to be joined 38e) . involving pretreatment of the surfaces to be joined . separate application of adhesive ingredients to the different surfaces to be joined . involving heating of the applied adhesive . using foamed adhesives . Joining materials by welding overlapping edges with an insertion of plastic material
<b>22i2-7/00</b> 22i2-7/02 22i2-7/04	Adhesive materials in the form of films or foils . on carriers . on paper or textile fabric (adhesive plasters 30h-9/05)
22k	(IPC: C09K) Miscellaneous compositions; Miscellaneous applications of materials

## Note:

This subclass covers compositions which are not specifically provided for elsewhere. It also covers the use of materials or compositions in a process, when that process is not specifically provided for elsewhere.

22k-1/00	Luminescent and tenebrescent materials
22k-1/02	. organic
22k-1/04	. based on inorganic materials
22k-1/06	halides
22k-1/08	oxyhalides
22k-1/10	oxides

22k-1/12 22k-1/14 22k-1/16 22k-1/20 22k-1/22 22k-1/24 22k-1/26 22k-1/28 22k-1/30 22k-1/32 22k-1/34 22k-1/36 22k-1/36 22k-1/40 22k-1/42 22k-1/42 22k-1/46 22k-1/48 22k-1/50 22k-1/50 22k-1/54 22k-1/56 22k-1/58 22k-1/60 22k-1/62 22k-1/62	<ul> <li>sulphides</li> <li>oxysulphides</li> <li>selenides</li> <li>tellurides</li> <li>two or more of sulphides, selenides, tellurides in a mixture</li> <li>sulphates</li> <li>chromates</li> <li>molybdates</li> <li>tungstates</li> <li>uranates</li> <li>nitrides; nitrates</li> <li>phosphides</li> <li>phosphates</li> <li>arsenates</li> <li>antimonates</li> <li>bismuthates</li> <li>vanadates</li> <li>niobates</li> <li>tantalates</li> <li>carbides; carbonates</li> <li>silicides; germanides</li> <li>silicates; germanates</li> <li>stannates</li> <li>plumbates</li> <li>titanates</li> <li>zirconates</li> <li>borides</li> </ul>
22k-1/64 22k-1/66	borides borates
22k-1/68	aluminates
22k-3/10	Materials for sealing or packing joints or covers
22k-3/18	Compositions for application to surface to minimise adherence of ice, mist or water thereto