CPC

COOPERATIVE PATENT CLASSIFICATION

D

TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D06 TREATMENT OF TEXTILES OR THE LIKE; LAUNDERING; FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D06P DYEING OR PRINTING TEXTILES; DYEING LEATHER, FURS OR SOLID MACROMOLECULAR SUBSTANCES IN ANY FORM

NOTE

This subclass does not cover treatment of textiles by purely mechanical means, which is covered by subclasses D06B, D06C.

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

   - D06P 3/84 covered by D06P 3/82
   - D06P 3/85 covered by D06P 3/82
   - D06P 3/852 covered by D06P 3/82
   - D06P 3/86 covered by D06P 3/82
   - D06P 3/87 covered by D06P 3/82
   - D06P 3/872 covered by D06P 3/82
   - D06P 3/874 covered by D06P 3/82
   - D06P 5/24 - D06P 5/28 covered by D06P 5/003 and s.gr.

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

1/00 General processes of dyeing or printing textiles, or general processes of dyeing leather, furs, or solid macromolecular substances in any form, classified according to the dyes, pigments, or auxiliary substances employed

   - 1/004 [General aspects of dyeing]
   - 1/008 [Dyeing processes in which the dye is not specific (waste liquors)]
   - 1/012 [Effecting dyeing to obtain luminescent or phosphorescent dyeings]
   - 1/016 [Dye baths containing a dyeing agent in a special form such as for instance in melted or solid form, as a floating film or gel, spray or aerosol, or atomised dyes]
   - 1/02 [Processing by repeated dyeing, e.g. in different baths]
   - 1/024 [Dyeing and bleaching in one process]
   - 1/028 [Dyeing with a coacervate system]
   - 1/032 [Determining dye recipes and dyeing parameters; Colour matching or monitoring]
   - 1/036 [Dyeing and sizing in one process]
   - 1/04 [Dyeing with phototropic dyes; Obtaining camouflage effects]
   - 1/044 [Dyeing with a dye in volatilised form]
   - 1/048 [Converting dyes in situ in a non-appropriate form by hydrolysis, saponification, reduction with split-off of a substituent]
   - 1/052 [Dyeing with polymeric dyes]
   - 1/056 [Dyeing with polymeric dyes involving building the polymeric dyes on the fibres (dyes per se C09B)]

1/006 . . [by using dyes with polymerisable groups, e.g. dye ---CH=CH2]

1/0064 . . [by using reactive polyfunctional compounds, e.g. crosslinkers]

1/0068 . . [Non-heterocyclic compounds]

1/0072 . . [Heterocyclic compounds]

1/0076 . . [Dyeing with mineral dye]

1/008 . . [Preparing dyes in situ (D06P 1/12, D06P 1/14 take precedence)]

2001/0084 . . [Non-aqueous dyeing in an inorganic medium]

2001/0088 . . [Aqueous dyeing characterised by a short bath ratio]

2001/0092 . . [Foam dyeing]

1/0096 . . [Multicolour dyeing]

1/02 . . using azo dyes (D06P 1/18, D06P 1/38, D06P 1/39, D06P 1/41 take precedence)

1/04 . . not containing metal

1/06 . . containing acid groups

1/08 . . cationic azo dyes

1/10 . . containing metal

1/12 . . prepared in situ

1/122 . . [the textile material containing one component]

1/125 . . [one or both of the components having fibre-reactive groups]

1/127 . . [using a stabilised diazo component, e.g. diazoaminio, anti-diazotate or nitrosamine R-N=N-OK, diazosulphonate, hydrazinesulphonate, R-N=N-N-CN]

1/13 . . using azomethine dyes
using insoluble pigments or auxiliary substances,
using basic dyes
using acid dyes
using mordant dyes; using metallisable dyes
using natural dyestuffs
using oxidation dyes
using sulfur dyes
using dispersed, e.g. acetate, dyestuffs
using compositions containing synthetic
using compositions containing natural
after dyeing or printing
{ Use of auxiliary substances before, during or
using basic dyes without azo groups
using acid dyes without azo groups
heterocyclic group
reactive group not directly attached to heterocyclic
group
reactive group not directly attached to
heterocyclic group
using acid dyes
using acid dyes without azo groups
using basic dyes
using basic dyes without azo groups
using insoluble pigments or auxiliary substances,
e.g. binders
{ Use of auxiliary substances before, during or
dying or printing
using compositions containing natural
macromolecular substances or derivatives thereof
Derivatives of carbohydrates
Derivatives of cellulose
using compositions containing synthetic
macromolecular substances (D06P 1/60 takes
precedence)
{ Macromolecular compounds obtained by
reactions involving only carbon-to-carbon
unsaturated bonds
{ Polymers of unsaturated compounds
containing no COOH groups or functional
dervatives thereof
{ Polymers of unsaturated hydrocarbons,
e.g. polystyrene polyalkylene
{ Polyalkenyl alcohols, e.g. PVA
{ Polyalkenyl halides, e.g. PVC
{ Polymers of unsaturated N-containing
compounds
{ Polymers of unsaturated carboxylic acids or
functional derivatives thereof
{(Meth)acrylic acid
{ Macromolecular compounds obtained
otherwise than by reactions involving only
unsaturated carbon-to-carbon bonds
{ Polymers; Polycarbonates; Alkyd resins
{ Polyamides; Polyimides; Polylactames; Polyalkyleneimines}
{ Polyurethanes; Polyurea; Polyguanides}
{ containing Si-atoms
{ Substances with reactive groups together with
crosslinking agents
{ Condensation products or precondensation
products prepared with aldehydes
{ together with other synthetic macromolecular
substances
{ using compositions containing polyethers
{ Nitrogen-containing polyethers [or their
quaternary derivatives]
{ containing CON=, OCON=, SO3N=, OSO3N= groups
{ addition products of amines and alkylene
oxides or oxiranes
{ Polymers without nitrogen
{ Addition products of hydroxyl groups-
containing compounds with oxiranes
{ from araliphatic or aliphatic alcohols
{ from aromatic alcohols or from phenols,
naphthols
{ Condensation products of esters, acids, oils,
oxyacids with oxiranes
{ Polymersion products of glycols, e.g. Carbowax, Pluronics
{ using compositions containing low-molecular-
weight organic compounds with sulfate,
sulfonate, { sulfenic or sulfinic } groups
{ Compounds without nitrogen
{ Sulfonic acids or their salts
{ Aromatic
{ Sulfocarboxylic acids
{ Sulfates
{ Compounds containing nitrogen
{ using compositions containing low-molecular-
weight organic compounds without sulfate or
sulfonate groups
{ Compounds containing nitrogen
{ Compounds containing nitrile groups
{ Compounds containing nitro or nitroso
groups
{ Compounds containing azide or oxime
groups
{ Compounds containing isocyanate or
isothiocyanate groups
{ Compounds containing hydrazine or azo
groups
{ Heterocyclic compounds
{ Compounds containing sulfonamide
groups
{ Compounds containing aminoxide groups
{ bound to a six-membered aromatic
carbocyclic ring
{ Aliphatic, araliphatic or cycloaliphatic
compounds containing amino groups
{ Nitrogen-containing carboxylic acids or their
salts
{ Compounds containing carbonamide,
thiocarbonamide or guanyl groups
{(Thio)urea or (cyclic) derivatives

CPC - 2020.08  2
Inorganic compounds

Organo-phosphorus compounds

Compounds containing ammonium groups

) }

Compounds containing phosphonium groups

Compounds containing sulfonium groups

Compounds containing hydroxyl groups

Compounds containing ether or acetal groups

Compounds containing thioaldehyde or ozonide groups

Compounds containing thiol groups

Compounds containing -CONCO-, e.g. polyamines

Amides of di- or polyamines; Acylated (Kritchewski bases)

Condensation products from carboxylic acids and hydroxylalkyl amine (Krichewski bases)

[Thio]urethanes; (Di)[thio]carbamic acid derivatives; Thiram diamides and disulfides

[Carboxamideimides; C=N=]

[Compounds containing a guanyl group R-C-N=, e.g. (bi)guanadine, dicynandiamid amidines]

[Compounds containing carbonamide - RCON= (R=H or hydrocarbons)]

[Salts or hydroxides ( hydroxylamines)

[Acids]

[Compounds containing phthalimides, hydantoine; Compounds containing RCONHSO_2R (R=H or hydrocarbon)]

[Compounds containing aldehyde or ketone groups]

[Compounds containing hydroxyl groups]

[Compounds containing ester groups]

[Compounds containing hydroxyl groups]

[Compounds containing -CONCO-, e.g. polyamines]

[Amides of di- or polyamines; Acylated (Kritchewski bases)]

[Condensation products from carboxylic acids and hydroxylalkyl amine (Krichewski bases)]

[Compounds containing a guanyl group R-C-N=, e.g. (bi)guanadine, dicynandiamid amidines]

[Compounds containing carbonamide - RCON= (R=H or hydrocarbons)]

Compounds without nitrogen

[Oxygen-containing compounds]

[Compounds containing aldehyde or ketone groups]

[Compounds containing hydroxyl groups]

[Compounds containing ester groups]

[Compounds containing ether or acetal groups]

[Compounds containing peroxide or ozonide groups]

[Compounds containing acid anhydride or acid halide groups]

[Hydrocarbons]

[Halogen-containing hydrocarbons]

[Hydrocarbons without halogen]

[Sulfur-containing compounds]

[Compounds containing thioaldehyde or thioalcohol groups]

[Compounds containing thiopropyl groups]

[Compounds containing sulfide or disulfide groups]

[Compounds containing sulfite or sulfone groups]

[Nitrogen-free carboxylic acids or their salts ([sulfocarboxylic acids D06P 1/626)]

[Aliphatic, araliphatic or cycloaliphatic]

[Aromatic]

[Compounds containing ammonium groups]

[Compounds containing sulfonium groups]

[Compounds containing phosphonium groups]

[Compounds containing quaternary ammonium groups]

[Organo-phosphorus compounds]

[Inorganic compounds]

[Hydroxylamine or derivatives thereof]

[Acids]

[Complex acids, e.g. phosphomolybdic, phosphotungstic, molybdotungstic]

[Salt or hydroxides (hydroxylamines)

[of elements different from the alkaline or alkaline-earth metals or with anions containing those elements (D06P 1/67383 takes precedence)]

[of alkaline or alkaline-earth metals with anions different from those provided for in D06P 1/67341]
3/146 . . . . {preparing non-azo dyes on the material}
3/148 . . . . {using reactive azo dyes}
3/16 . . . . using acid dyes
3/18 . . . . using basic dyes
3/20 . . . . using mordant dyes {using metallisable dyes}
3/22 . . . . Preparing azo dyes on the fibre
3/24 . . . . Polyamides; Polyurethanes
3/241 . . . . {using acid dyes}
3/242 . . . . {using basic dyes}
3/243 . . . . {using vat or sulfur dyes, indigo}
3/245 . . . . {using metallisable or mordant dyes}
3/246 . . . . {using polymeric dyes}
3/247 . . . . {preparing non-azo dyes on the material}
3/248 . . . . {using reactive dyes}
3/26 . . . . using dispersed dyestuffs
3/28 . . . . Preparing azo dyes on the material
3/30 . . . . furs {feathers, dead hair, furskins, pelts}
3/3008 . . . . {using acid dyes}
3/3016 . . . . {using monazo acid dyes}
3/3025 . . . . {dis-polyazo acid dyes}
3/3033 . . . . {using basic dyes}
3/3041 . . . . {using vat, sulfur or indigo dyes}
3/305 . . . . {with oxidation dyes}
3/3058 . . . . {using metallisable or mordant dyes}
3/3066 . . . . {using polymeric dyes}
3/3075 . . . . {preparing azo dyes on the material}
3/3083 . . . . {preparing non-azo dyes on the material}
3/3091 . . . . {using reactive dyes}
3/32 . . . . leather {skins}
3/3206 . . . . {using acid dyes}
3/3213 . . . . {monoazo}
3/322 . . . . {using monoazo premetallised dyes}
3/3226 . . . . {dis-polyazo}
3/3233 . . . . {using dis-polyazo premetallised dyes}
3/324 . . . . {using basic dyes}
3/3246 . . . . {using vat, sulfur or indigo dyes}
3/3253 . . . . {using oxidation dyes}
3/326 . . . . {using metallisable or mordant dyes}
3/3266 . . . . {using polymeric dyes}
3/3273 . . . . {preparing azo dyes on the material}
3/328 . . . . {preparing non-azo dyes on the material}
3/3286 . . . . {using reactive dyes}
3/3293 . . . . {mineral dyeing}
3/34 . . . . Material containing ester groups (D06P 3/04 takes precedence)
3/341 . . . . {using acid dyes}
3/342 . . . . {using basic dyes}
3/343 . . . . {using vat or sulfur dyes}
3/345 . . . . {using metallisable or mordant dyes}
3/346 . . . . {using polymeric dyes}
3/347 . . . . {preparing non-azo dyes on the material}
3/348 . . . . {using reactive dyes}
3/36 . . . . using dispersed dyestuffs
3/38 . . . . Preparing azo dyes on the material
3/40 . . . . Cellulose acetate
3/401 . . . . {using acid dyes}
3/402 . . . . {using basic dyes}
3/403 . . . . {using vat or sulfur dyes}
3/405 . . . . {using metallisable or mordant dyes}
3/406 . . . . {using polymeric dyes}
3/407 . . . . {preparing non-azo dyes on the material}
3/408 . . . . {using reactive azo dyes}
3/42 . . . . using dispersed dyestuffs
3/44 . . . . Preparing azo dyes on the material
3/46 . . . . Cellulose triacetate
3/461 . . . . {using acid dyes}
3/462 . . . . {using basic dyes}
3/463 . . . . {using vat or sulfur dyes}
3/465 . . . . {using metallisable or mordant dyes}
3/466 . . . . {using polymeric dyes}
3/467 . . . . {preparing non-azo dyes on the material}
3/468 . . . . {using reactive dyes}
3/48 . . . . using dispersed dyestuffs
3/50 . . . . Preparing azo dyes on the material
3/52 . . . . Polysters
3/521 . . . . {using acid dyes}
3/522 . . . . {using basic dyes}
3/523 . . . . {using vat or sulfur dyes}
3/525 . . . . {using metallisable or mordant dyes}
3/526 . . . . {using polymeric dyes}
3/527 . . . . {preparing non-azo dyes on the material}
3/528 . . . . {using reactive dyes}
3/54 . . . . using dispersed dyestuffs
3/56 . . . . Preparing azo dyes on the material
3/58 . . . . Material containing hydroxyl groups
3/60 . . . . Natural or regenerated cellulose
3/6008 . . . . {using acid dyes}
3/6016 . . . . {using basic dyes}
3/6025 . . . . {using vat or sulfur dyes}
3/6033 . . . . {using dispersed dyes}
3/6041 . . . . {using specified dyes}
3/605 . . . . {dyeing with polymeric dyes; building polymeric dyes on fibre (dyes per se C09B)}
3/6058 . . . . {by using dyes with polymerisable groups, e.g. dye ---CH=CH2}
3/6066 . . . . {by using reactive polyfunctional compounds, e.g. crosslinkers}
3/6075 . . . . {non-heterocyclic compounds}
3/6083 . . . . {heterocyclic compounds}
3/6091 . . . . {preparing non-azo dyes on the material}
3/62 . . . . using direct dyes
3/64 . . . . using mordant dyes {or metallisable dyes}
3/66 . . . . using reactive dyes
3/663 . . . . {reactive group directly attached to heterocyclic group}
3/666 . . . . {reactive group not directly attached to heterocyclic group}
3/68 . . . . Preparing azo dyes on the material
3/685 . . . . {one or both components having fibre-reactive group}
3/70 . . . . Material containing nitrile groups
3/701 . . . . {using vat or sulfur dyes}
3/702 . . . . {dyeing of material in the gel state}
3/704 . . . . {using metallisable or mordant dyes or dyeing by cupro-ionic method}
3/705 . . . . {using polymeric dyes}
3/707 . . . . {preparing non-azo dyes on the material}
3/708 . . . . {using reactive dyes}
3/72 . . . . using dispersed dyestuffs
3/74 . . . . using acid dyes
3/76 . . . . using basic dyes
3/78 . . . . Preparing azo dyes on the material
3/79 . Polyolefins
3/791 . [using acid dyes]
3/792 . [using basic dyes]
3/793 . [using vat or sulfur dyes]
3/794 . [using dispersed dyes]
3/795 . [using metalisable or mordant dyes, dyeing premetallised fibres]
3/796 . [using polymeric dyes]
3/797 . [preparing non-azo dyes on the material]
3/798 . [using reactive dyes]
3/799 . [preparing azo dyes on the material]
3/80 . Inorganic fibres
3/82 . Textiles which contain different kinds of fibres
3/8204 . [fibres of different chemical nature]
3/8209 . [mixtures of fibres containing amide groups]
3/8214 . [mixtures of fibres containing ester and amide groups]
3/8219 . [mixtures of fibres containing hydroxyl and amide groups]
3/8223 . [mixtures of fibres containing hydroxyl and ester groups]
3/8228 . [using one kind of dye]
3/8233 . [using dispersed dyes]
3/8238 . [using different kinds of dye]
3/8242 . [using dispersed and acid dyes]
3/8247 . [using dispersed and vat, sulfur or indigo dyes]
3/8252 . [using dispersed and reactive dyes]
3/8257 . [using dispersed and azo dyes prepared in situ]
3/8261 . [mixtures of fibres containing nitrile groups]
3/8266 . [mixtures of fibres containing hydroxyl and nitrile groups]
3/8271 . [mixtures of fibres containing amide and nitrile groups]
3/8276 . [mixtures of fibres containing ester groups]
3/828 . [mixtures of fibres containing hydroxyl groups]
3/8285 . [mixtures of cellulose and polyolefin fibres]
3/829 . [mixtures of cellulose and animalized fibres]
3/8295 . [mixtures of fibres containing nitrile and ester groups]
3/854 . containing modified or unmodified fibres,
  [i.e. containing the same type of fibres having different characteristics, e.g. twisted and not-
thwisted fibres (reserve dyeing D06P 5/12)]

5/02 . After-treatment

NOTE
In groups D06P 5/04 - D06P 5/10 a compound is always classified in the last appropriate place.

5/04 . with organic compounds
5/06 . containing nitrogen
5/08 . macromolecular
5/10 . with compounds containing metal
5/12 . Reserving parts of the material before dyeing or printing (Locally decreasing dye affinity by chemical means)

5/13 . Fugitive dyeing or stripping dyes
5/131 . [with acids or bases]
5/132 . [with oxidants]
5/134 . [with reductants]
5/135 . [with combined acids or bases + oxidants + reductants means]
5/137 . [with other compounds]
5/138 . [fugitive dyeing]
5/15 . Locally discharging the dyes
5/151 . [with acids or bases]
5/153 . [with oxidants]
5/155 . [with reductants]
5/156 . [with combined A+B+C means]
5/158 . [with other compounds]
5/17 . Azo dyes
5/20 . Physical treatments affecting dyeing, e.g. ultrasonic or electric
5/2005 . [Treatments with alpha, beta, gamma or other rays, e.g. stimulated rays]
5/2011 . [Application of vibrations, pulses or waves for non-thermic purposes]
5/2016 . [Application of electric energy]
5/2022 . [Textile treatments at reduced pressure, i.e. lower than 1 atm]
5/2027 . [before dyeing]
5/2033 . [during dyeing]
5/2038 . [after dyeing]
5/2044 . [Textile treatments at a pressure higher than 1 atm]
5/205 . [before dyeing]
5/2055 . [during dyeing]
5/2061 . [after dyeing]
5/2066 . [Thermic treatments of textile materials]
5/2072 . [before dyeing]
5/2077 . [after dyeing]
5/2083 . [heating with IR or microwaves]
5/2088 . [by fluid-bed techniques]
5/2094 . [by molten masses]
5/22 . Effecting variation of dye affinity on textile material by chemical means that react with the fibre (documents concerning material modified in the mass by compounding with modifying agents affecting the dye affinity after spinning, are not classified here; see the relevant groups C08, D01F, D06P 3/00; grafting of monomers on textile materials C08F, D06M 11/00]
5/225 . [Aminalization of cellulose; introducing aminogroups into cellulose]
5/30 . Ink jet printing
<table>
<thead>
<tr>
<th>7/00</th>
<th>Dyeing or printing processes combined with mechanical treatment</th>
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<tbody>
<tr>
<td>7/005</td>
<td>[Dyeing combined with texturising or drawing treatments]</td>
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