

Title (en)  
Process for ink jet printing textile materials

Title (de)  
Verfahren zum Bedrucken von textilen Fasermaterialien nach dem Tintenstrahldruck-Verfahren

Title (fr)  
Procédé d'impression par jet d'encre de matériaux textiles

Publication  
**EP 0885998 B1 20041103 (DE)**

Application  
**EP 98810523 A 19980609**

Priority  
CH 147397 A 19970617

Abstract (en)  
[origin: EP0885998A2] In ink jet printing on textiles, the aqueous ink used contains (a) specified reactive dye(s) (I), and (b) 1,2-propylene glycol (PG) or N-methyl-2-pyrrolidone (NMP). (I) are selected from 1,3-bis(2-(4-(3,7,8-trisulphonaphth-2-yl-azo)-3-ureido-phenylamino)-4-fluoro-1,3,5-triazin-6-yl-amino)-alkanes of formula (IA), 1,2-bis(2-(3-(1-amino-2-sulpho-anthraquinon-4-yl-amino)-2,4,6-trimethyl-5-sulpho-phenylamino)-1,3,5-triazin-6-yl-amino)alkanes of formula (IB), 4-(2-(2-(2-vinyl- or -beta -sulphatoethyl-sulphonylethoxy)ethylamino)-4-fluoro-1,3,5-triazin-6-yl -amino)-2-(1-ethyl-2-hydroxy-4-methyl-5-sulphomethyl-pyrid-6-on-3-yl-azo)-benzenesulphonic acid of formula (IC), 6-(2-(2-(2-vinyl- or beta -sulphatoethyl-sulphonylethoxy)ethylamino)-4-fluoro-1,3,5-triazin-6-yl -amino)-2-(4-methyl-2,5-disulphophenylazo)-1-hydroxynaphthalene-3-sulphonic acid of formula (ID), 8-(2-(2-(2-vinyl- or beta -sulphatoethyl-sulphonylethoxy)ethylamino)-4-chloro-1,3,5-triazin-6-yl -amino)-2-(4-vinylsulphonylphenylazo)-1-hydroxynaphthalene-3,6-disulphonic acid of formula (IE), 8-(2-(3-(2-vinyl- or beta -sulphatoethyl-sulphonylethylcarbamoyl)-phenylamino)-4-fluoro-1,3,5-triazin-6-yl-amino)-2-(1,5-disulphonaphth-2-yl-azo)-1-hydroxynaphthalene-2,6-disulphonic acid of formula (IF), copper phthalocyanine sulphonic acid sulphonamides of formula (IG), 8-amino-2,7-bis(4-vinyl- or -beta -sulphatoethyl-sulphonyl-phenylazo)-1-hydroxynaphthalene-3,6-disulphonic acid of formula (IH) and 2,4-diamino-3-(4-vinyl- or -beta -sulphatoethyl-sulphonyl-phenylazo)-5-(2-sulpho-4-vinyl- or -beta -sulphatoethyl-sulphonyl-phenylazo)-benzenesulphonic acid of formula (IJ). In the formulae, Z, Z' = vinyl or -CH<sub>2</sub>-CH<sub>2</sub>-OSO<sub>3</sub>H; B<sub>1</sub>, B<sub>2</sub> = 2-12C alkylene, optionally with 1, 2 or 3 O atoms in the chain and optionally substituted by OH, sulph(at)o, cyano or carboxyl; and CuPhC = a copper phthalocyanine residue. Also claimed are aqueous ink jet printing inks containing dye(s) (I).

IPC 1-7  
**D06P 5/00**; **D06P 1/38**; **D06P 1/52**; **D06P 1/651**; **C09B 62/04**; **C09B 62/503**; **C09D 11/00**

IPC 8 full level  
**C09B 62/06** (2006.01); **C09B 62/09** (2006.01); **C09B 62/51** (2006.01); **C09B 62/513** (2006.01); **C09B 62/517** (2006.01); **D06P 1/382** (2006.01); **D06P 1/384** (2006.01); **D06P 1/90** (2006.01); **D06P 5/00** (2006.01); **D06P 5/30** (2006.01); **D06P 1/38** (2006.01); **D06P 1/642** (2006.01); **D06P 1/651** (2006.01)

CPC (source: EP KR US)  
**D06P 1/382** (2013.01 - KR); **D06P 1/384** (2013.01 - KR); **D06P 1/6426** (2013.01 - KR); **D06P 1/65118** (2013.01 - KR); **D06P 5/30** (2013.01 - EP KR US); **D06P 1/38** (2013.01 - EP US); **D06P 1/382** (2013.01 - EP US); **D06P 1/384** (2013.01 - EP US); **D06P 1/6426** (2013.01 - EP US); **D06P 1/65118** (2013.01 - EP US)

Designated contracting state (EPC)  
BE CH DE ES FR GB IT LI PT

DOCDB simple family (publication)  
**EP 0885998 A2 19981223**; **EP 0885998 A3 20000223**; **EP 0885998 B1 20041103**; BR 9802380 A 19990720; CN 1202549 A 19981223; DE 59812197 D1 20041209; ES 2230665 T3 20050501; ID 20434 A 19981217; JP H1112962 A 19990119; KR 100538664 B1 20060314; KR 19990007011 A 19990125; PT 885998 E 20050331; SG 73519 A1 20000620; TR 199801116 A2 19991021; TR 199801116 A3 19991021; TW 514659 B 20021221; US 6015454 A 20000118

DOCDB simple family (application)  
**EP 98810523 A 19980609**; BR 9802380 A 19980615; CN 98103228 A 19980616; DE 59812197 T 19980609; ES 98810523 T 19980609; ID 980857 A 19980611; JP 16805998 A 19980616; KR 19980022467 A 19980616; PT 98810523 T 19980609; SG 1998001395 A 19980611; TR 9801116 A 19980616; TW 87109455 A 19980615; US 8914698 A 19980602