

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 de matériaux textiles par jet d'encre

Publication  
**EP 0885999 B1 20050727 (DE)**

Application  
**EP 98810524 A 19980609**

Priority  
CH 147497 A 19970617

Abstract (en)  
[origin: EP0885999A2] An ink jet printing method for use on textiles, where the aqueous ink used contains: (a) specified reactive dye(s) (I), and (b) 1,2-propylene glycol (PG), N-methyl-2-pyrrolidone (NMP), alginate or a water-soluble, non-ionogenic cellulose ether (II); where (I) are selected from 4-(2-sulphophenyl amino-4-chloro-1,3,5-triazin-6-yl-amino)-2-(1-ethyl-2-hydroxy-4-methyl -5-sulphomethyl-pyrid-6-on-3-yl-azo)-benzenesulphonic acid (IA); 8-(2-(N-ethyl-N-phenylamino)-4-chloro-1,3,5-triazin-6-yl-amino)-2-(2-s ulphophenyl-azo)-1-hydroxynaphthalene-3,6-disulphonic acid (IB); 6-(N-methyl-N-(2-amino-4-chloro-1,3,5-triazin-6-yl)-amino)-2-(1,5-disu lphonaphth-2-yl-azo)-1-hydroxynaphthalene-3-sulphonic acid (IC); 5-(2-( beta -( beta -hydroxyethoxy)ethylamino)-4-chloro-1,3,5-triazin-6-yl-amino)-2-(3,6,8 -trisulphonaphth-2-yl-azo)-phenylurea (ID); 8-(2-(N-ethyl-N-phenylamino)-4-chloro-1,3,5-triazin-6-yl-amino)-2-(1-s ulpho- or -1,5-disulphonaphth-2-yl-azo)-1-hydroxynaphthalene-3,6-disulphonic acid (IE); 1-amino- 4-(3-(2-sulphophenyl amino-4-chloro-1,3,5-triazin-6-yl-amino)-2,4,6-trimethyl-5-sulphophenyl amino)-anthraquinone-2-sulphonic acid (IF); 1-amino-4-(3-(2-(2,5-disulphophenyl amino)-4-chloro-1,3,5-triazin-6-yl-amino-tert. pentylamino)-anthraquin one-2-sulphonic acid (IG); a copper phthalocyanine sulphonic acid sulphonamide of formula: (IH) (in which CuPhC = a copper phthalocyanine group); the 1:2 chromium complex (Ii) of 8-(2-amino-4-chloro-1,3,5-triazin-6-yl-amino)-2-(2-hydroxy-5-nitrophen yl-azo)-1-hydroxynaphthalene-3,6-disulphonic acid; or the 1:2 cobalt complex (Ij) of 6-(2-amino-4-chloro-1,3,5-triazin-6-yl-amino)-2-(2-hydroxy-6-nitro-4-s ulphonaphth-1-yl-azo)-1-hydroxynaphthalene-3-sulphonic acid. If the ink contains (IA), it also contains NMP, alginate or (II). Also claimed are aqueous ink jet printing inks containing dye(s) (I).

IPC 1-7  
**D06P 5/00**; **D06P 1/382**; **D06P 1/46**; **D06P 1/52**; **D06P 1/651**; **C09B 62/04**; **C09D 11/00**

IPC 8 full level  
**D06P 1/38** (2006.01); **D06P 3/66** (2006.01); **D06P 5/00** (2006.01); **D06P 5/30** (2006.01); **D06P 1/382** (2006.01); **D06P 1/384** (2006.01); **D06P 1/46** (2006.01); **D06P 1/50** (2006.01); **D06P 1/642** (2006.01); **D06P 1/651** (2006.01)

CPC (source: EP KR US)  
**D06P 1/38** (2013.01 - KR); **D06P 5/30** (2013.01 - EP US); **D06P 1/38** (2013.01 - EP US); **D06P 1/382** (2013.01 - EP US); **D06P 1/384** (2013.01 - EP US); **D06P 1/46** (2013.01 - EP US); **D06P 1/50** (2013.01 - EP US); **D06P 1/6426** (2013.01 - EP US); **D06P 1/65118** (2013.01 - EP US)

Cited by  
DE10135042A1; WO0015898A1

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

DOCDB simple family (publication)  
**EP 0885999 A2 19981223**; **EP 0885999 A3 20000223**; **EP 0885999 B1 20050727**; BR 9803345 A 19991103; CN 1140666 C 20040303; CN 1202550 A 19981223; DE 59812953 D1 20050901; ES 2246526 T3 20060216; ID 20433 A 19981217; JP H1112957 A 19990119; KR 100538665 B1 20060323; KR 19990007012 A 19990125; MX 227075 B 20050401; MX 9804842 A 20000430; MY 117132 A 20040531; PT 885999 E 20051031; SG 79981 A1 20010417; TR 199801118 A2 19991021; TR 199801118 A3 19991021; TW 503250 B 20020921; US 6007611 A 19991228

DOCDB simple family (application)  
**EP 98810524 A 19980609**; BR 9803345 A 19980617; CN 98103229 A 19980616; DE 59812953 T 19980609; ES 98810524 T 19980609; ID 980859 A 19980611; JP 16725398 A 19980615; KR 19980022468 A 19980616; MX 9804842 A 19980616; MY PI9802677 A 19980616; PT 98810524 T 19980609; SG 1998001402 A 19980612; TR 9801118 A 19980616; TW 87109451 A 19980615; US 8914598 A 19980602