

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 A2 19981223 (DE)

Application
EP 98810524 A 19980609

Priority
CH 147497 A 19970617

Abstract (en)
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-sulphophenyla mino-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 (II) 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).

Abstract (de)
Verfahren zum Bedrucken von textilen Fasermaterialien nach dem Tintenstrahldruck-Verfahren, dadurch gekennzeichnet, dass man diese Fasermaterialien mit einer wässrigen Tinte bedruckt, welche a) mindestens einen Reaktivfarbstoff der in Anspruch 1 angegebenen Formeln (1a) bis (1j), und b) 1,2-Propylenglykol, N-Methyl-2-pyrrolidon, Alginat oder einen wasserlöslichen, nichtionogenen Celluloseäther enthält Das Verfahren eignet sich besonders zum Bedrucken von cellulosehaltigen Fasermaterialien. Es werden Drucke mit guten Echtheitseigenschaften bei hoher färbischer Ausbeute erhalten.

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 P19802677 A 19980616; PT 98810524 T 19980609; SG 1998001402 A 19980612; TR 9801118 A 19980616; TW 87109451 A 19980615; US 8914598 A 19980602