

Title (en)
WATER SOLUBLE DYE COMPLEXING POLYMERS AS DYE TRANSFER INHIBITORS IN LAUNDRY DETERGENT AND FABRIC SOFTENER COMPOSITIONS

Title (de)
WASSERLÖSLICHE FARBSTOFF KOMPLEXIERENDE POLYMERE ALS FARBSTOFFÜBERTRAGUNGSINHIBITOREN IN WÄSCHEWASCH- UND WEICHPÜLERZUSAMMENSETZUNGEN

Title (fr)
POLYMERES DE COMPLEXION TINCTORIALE SOLUBLE DANS L'EAU UTILISES COMME INHIBITEURS DE TRANSFERT PIGMENTAIRE DANS UN DETERGENT A LESSIVE OU DES COMPOSITIONS D'ASSOUPLISSEMENT DE TISSUS

Publication
EP 1023430 A4 20001115 (EN)

Application
EP 98946875 A 19980908

Priority
• US 9818627 W 19980908
• US 93244897 A 19970919
• US 10563098 A 19980626
• US 10566698 A 19980626

Abstract (en)
[origin: WO9915614A1] This invention relates to dye complexing polymers, and, more particularly, to water soluble poly(vinylpyridine betaines) containing a quaternary nitrogen and a carboxylate salt. The polymers herein have effective dye transfer inhibitor (DTI) properties for use, for example, in laundry detergent and fabric softener compositions.

IPC 1-7
C11D 3/37; **C11D 3/00**

IPC 8 full level
C11D 1/00 (2006.01); **C11D 1/62** (2006.01); **C11D 3/00** (2006.01); **C11D 3/37** (2006.01); **D06M 15/356** (2006.01)

CPC (source: EP)
C11D 1/62 (2013.01); **C11D 3/0015** (2013.01); **C11D 3/0021** (2013.01); **C11D 3/3776** (2013.01)

Citation (search report)
• [A] US 3671305 A 19720620 - BROWN ALBERT B, et al
• [A] EP 0754748 A1 19970122 - PROCTER & GAMBLE [US]
• [A] EP 0704523 A1 19960403 - PROCTER & GAMBLE [US]
• [XP] "DETERGENT COMPOSITIONS AND FABRIC CONDITIONING COMPOSITIONS CONTAINING DYE TRANSFER INHIBITING POLYMERS", RESEARCH DISCLOSURE, GB, INDUSTRIAL OPPORTUNITIES LTD. HAVANT, no. 411, July 1998 (1998-07-01), pages 935 - 953, XP000824803, ISSN: 0374-4353
• [XP] DATABASE WPI Section Ch Week 199836, Derwent World Patents Index; Class A13, AN 1998-425464, XP002148240, ANONYMOUS: "Water-soluble dye transfer inhibiting polymers - are useful in detergent compositions and are effective even in presence of anionic surfactants." & RESEARCH DISCLOSURE, vol. 411, no. 075, 10 July 1998 (1998-07-10), Emsworth, GB
• [X] DATABASE WPI Section Ch Week 199113, Derwent World Patents Index; Class A23, AN 1991-089862, XP002148241 & JP H0333266 A 19910213 - UNITIKA LTD

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9915614 A1 19990401; AT E260333 T1 20040315; AU 750596 B2 20020725; AU 9379498 A 19990412; BR 9812220 A 20000718; CA 2304106 A1 19990401; CA 2304106 C 20071009; CN 1158381 C 20040721; CN 1271379 A 20001025; DE 69821960 D1 20040401; DE 69821960 T2 20041223; EP 1023430 A1 20000802; EP 1023430 A4 20001115; EP 1023430 B1 20040225; JP 2001517730 A 20011009; NZ 503045 A 20020426

DOCDB simple family (application)
US 9818627 W 19980908; AT 98946875 T 19980908; AU 9379498 A 19980908; BR 9812220 A 19980908; CA 2304106 A 19980908; CN 98809315 A 19980908; DE 69821960 T 19980908; EP 98946875 A 19980908; JP 2000512909 A 19980908; NZ 50304598 A 19980908