

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 WEICHSPÜLERZUSAMMENSETZUNGEN

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'ASSOUPPLISSEMENT DE TISSUS

Publication  
**EP 1023430 A1 20000802 (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**

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)

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