

Title (en)
USE OF GRAFT POLYMERS OF POLYALKYLENE OXIDES AS ANTI-REDEPOSITION AGENTS IN THE WASHING AND AFTER-TREATMENT OF TEXTILES CONTAINING SYNTHETIC FIBRES

Publication
EP 0285037 B1 19930714 (DE)

Application
EP 88104888 A 19880326

Priority
DE 3711298 A 19870403

Abstract (en)
[origin: US4846995A] A detergent containing as grayness inhibitor in the wash and aftertreatment of textile material containing synthetic fibers graft polymers obtainable by grafting (a) a polyalkylene oxide which has a number average molecular weight of from 300 to 100,000, is based on ethylene oxide, propylene oxide and/or butylene oxide, and is end group capped at at least one end, with (b) at least on vinyl ester derived from a saturated monocarboxylic acid containing 1 to 6 carbon atoms and/or a methyl or ethyl ester of acrylic or methacrylic acid in a weight ratio (a):(b) of from 1:0.2 to 1:10.

IPC 1-7
C11D 3/37

IPC 8 full level
C11D 3/00 (2006.01); **C11D 3/37** (2006.01); **D06M 13/02** (2006.01); **D06M 13/184** (2006.01); **D06M 13/203** (2006.01); **D06M 13/224** (2006.01); **D06M 15/53** (2006.01)

CPC (source: EP US)
C11D 3/0036 (2013.01 - EP US); **C11D 3/3788** (2013.01 - EP US)

Cited by
EP4134420A1; EP2980198A1; EP4134421A1; EP0429307A3; US4846994A; TR26387A; US6946004B2; US8519060B2; US9068023B2; WO9119778A1; WO2023019152A1; WO2013132042A1; EP2862884A1; EP2865692A1; EP2886567A1; WO2023019153A1; WO2012079256A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0285037 A2 19881005; EP 0285037 A3 19900919; EP 0285037 B1 19930714; AT E91499 T1 19930715; CA 1302832 C 19920609; DE 3711298 A1 19881013; DE 3882260 D1 19930819; ES 2041721 T3 19931201; JP 2541616 B2 19961009; JP S63260994 A 19881027; US 4846995 A 19890711

DOCDB simple family (application)
EP 88104888 A 19880326; AT 88104888 T 19880326; CA 562575 A 19880325; DE 3711298 A 19870403; DE 3882260 T 19880326; ES 88104888 T 19880326; JP 7348288 A 19880329; US 17519088 A 19880331