

Title (en)

Use of graft copolymers of polyalkylenoxides and vinyl acetate as anti-redeposition agents in the washing and post-treatment of textiles containing synthetic fibres.

Title (de)

Verwendung von Pfropfcopolymerisaten aus Polyalkylenoxiden und Vinylacetat als Vergrauungsinhibitoren beim Waschen und Nachbehandeln von Synthefasern enthaltendem Textilgut.

Title (fr)

Utilisation de copolymères greffés d'oxydes de polyalkylènes et d'acétate de vinyle comme agents antiredépôts pendant le lavage et le post-traitement de matières textiles contenant des fibres synthétiques.

Publication

EP 0219048 A2 19870422 (DE)

Application

EP 86113884 A 19861007

Priority

DE 3536530 A 19851012

Abstract (en)

[origin: US4746456A] Detergents contain added graft copolymers which have an antiredeposition action and are obtainable by grafting polyalkylene oxides having a number average molecular weight of from 2000 to 100,000 with vinyl acetate in a weight ratio of from 1:0.2 to 1:10, and up to 15% of whose acetate groups may be hydrolyzed.

Abstract (de)

Verwendung von Pfropfcopolymerisaten, die erhältlich sind durch Pfropfen von Polyalkylenoxiden eines Molekulargewichts (Zahlenmittel) von 2000 bis 100.000 mit Vinylacetat im Gewichtsverhältnis 1:0,2 bis 1:10 und deren Acetatgruppen gegebenenfalls bis zu 15 % verseift sind, als Vergrauungsinhibitoren beim Waschen und Nachbehandeln von Synthefasern enthaltendem Textilgut.

IPC 1-7

C11D 3/37

IPC 8 full level

D06L 1/12 (2006.01); **C11D 3/00** (2006.01); **C11D 3/37** (2006.01); **D06M 13/02** (2006.01); **D06M 13/224** (2006.01); **D06M 15/53** (2006.01); **D06M 101/00** (2006.01); **D06M 101/16** (2006.01)

CPC (source: EP US)

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

Cited by

EP2886567A1; EP0953347A3; US5332528A; TR26007A; EP0457205A3; US5207941A; EP1158041A1; EP0358474A3; US5635554A; EP0571144A1; EP0285038A3; EP0285935A1; EP0358472A3; EP0358473A3; EP0285037A3; US5998357A; US6025320A; EP0286019A1; CN105732991A; WO2014072211A1; WO2014079758A1; WO2011075426A1; WO2018114451A1; WO9206152A1; WO2011075340A1; WO2019089228A1; WO2021228840A1; WO2021228352A1; WO2022093189A1; EP2135934A1; WO2011120799A1; US8519060B2; WO2019075148A1; WO2023232242A1; EP0778342A1; EP2495300A1; WO2013132042A1; EP2862884A1; EP2865692A1; WO2012003300A2; EP1978081A2; WO2017211700A1; WO2023147874A1; WO2024051922A1; WO2012138423A1; WO2016020622A1; WO2020057761A1; WO2022184247A1; EP0699472A1; WO2015112671A1; WO2016106168A1; WO2016155993A1; WO2019038187A1; EP3978589A1; WO2022072587A1; WO2023232243A1; WO2007115381A2; US7951768B2; EP2963101A1; EP3272850A1; WO2021073774A1; WO2024078679A1; EP2106704A1; WO2012003367A2; WO2013043857A1; US8440300B2; EP2987848A1; WO2018224379A1; WO2019063402A1; WO2009092698A1; WO2023213386A1; US6511952B1; EP0839903A1; WO2010107640A1; WO2012003316A1; WO2013043805A1; WO2013070559A1; WO2013070560A1; WO2014018309A1; WO2017133879A1; WO2018036625A1; WO2022136270A1; EP0690122A2; EP0693549A1; WO2011088089A1; WO2012156250A1; WO2016044200A1; WO2017211697A1; WO2019075228A1; WO2023088551A1; DE202017007679U1; US8029912B2; WO2012003351A2; WO2012003360A2; WO2013002786A1; WO2013139702A1; WO2017214240A2; EP3533908A1; WO2020015827A1; WO2021104645A1; WO2012003319A2; WO2013043852A2; WO2021247801A1; WO2022218936A1; WO2024037712A1; US6812200B2; WO2012085236A1; WO2012112828A1; WO2013043855A2; WO2014160821A1; US9068023B2; WO2017097438A1; WO2017097434A1; EP3272849A1; EP3327106A1; WO2018085315A1; WO2022218696A1; WO2023160805A1; WO2024088522A1; WO2024088521A1; WO2012009525A2; EP2476743A1; WO2012136427A1; WO2016106167A1; EP3190167A1; EP3327108A1; WO2019038186A1; WO2019075144A1; WO2019166277A1; WO2019166283A2; WO2020182288A1; WO2023232245A1; WO2009101028A1; US6946004B2; US8426023B2; WO2019029808A1; WO2021043585A1; EP4331684A2; WO2024088520A1; EP2135931A1; EP0692520A1; WO2012009660A2; WO2012127129A1; FR2985273A1; WO2017071752A1; EP3369845A1; WO2018204812A1; WO2022199790A1; EP4083050A1; WO2022233623A1; WO9742282A1; WO9625478A1; EP2522714A1; EP2522715A1; WO2013043803A2; FR3014456A1; WO2015088826A1; EP2979682A1; WO2018085310A1; WO2018085390A1; EP3443950A1; WO2019068473A1; WO2019075146A1; EP3572572A1; DE12018000292U1; WO2020094244A1; WO2020229661A1; EP3805350A1; DE112014005598B4; EP4331564A1; WO2024027922A1; WO2024046834A1; EP2242831B1; EP2264137B1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0219048 A2 19870422; EP 0219048 A3 19880810; EP 0219048 B1 19900523; AT E53065 T1 19900615; CA 1269013 A 19900515; DE 3536530 A1 19870423; DE 3671470 D1 19900628; ES 2014962 B3 19900801; JP H0765073 B2 19950712; JP S6295399 A 19870501; US 4746456 A 19880524

DOCDB simple family (application)

EP 86113884 A 19861007; AT 86113884 T 19861007; CA 519813 A 19861003; DE 3536530 A 19851012; DE 3671470 T 19861007; ES 86113884 T 19861007; JP 23943186 A 19861009; US 91426786 A 19861002