

Title (en)  
USE OF CATIONIC VINYL CARBOXAMIDE/VINYLAMINE COPOLYMERS AS A COLOR CARE AGENT FOR LAUNDERING FORMULATIONS

Title (de)  
VERWENDUNG VON KATIONISCHEN VINYL CARBOXAMID-/VINYLAMIN COPOLYMEREN ALS FARBSCHONENDE MITTEL FÜR WASHFORMULIERUNGEN

Title (fr)  
UTILISATION DE COPOLYMÈRES VINYLAMINE/VINYLCARBOXAMIDE CATIONIQUES COMME AGENT DE PROTECTION DES COULEURS POUR FORMULATIONS DE BLANCHISSAGE

Publication  
**EP 3421583 A1 20190102 (EN)**

Application  
**EP 17177768 A 20170626**

Priority  
EP 17177768 A 20170626

Abstract (en)  
The use of a cationic vinylcarboxamide/vinylamine copolymer as a color care agent for laundering, to liquid laundering formulations comprising such cationic vinylcarbox-amide/vinylamine copolymer as a color care agent and to a method for preparing them.

IPC 8 full level  
**C11D 3/00** (2006.01); **C11D 3/37** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP)  
**C11D 3/0021** (2013.01); **C11D 3/3769** (2013.01); **C11D 3/3773** (2013.01); **C11D 2111/12** (2024.01)

Citation (applicant)

- US 2007277327 A1 20071206 - WESSLING MICHAEL [DE], et al
- US 2008103081 A1 20080501 - LANG FRANK-PETER [DE]
- US 2008318830 A1 20081225 - LANG FRANK-PETER [DE]
- US 2008103080 A1 20080501 - LANG FRANK-PETER [DE]
- US 2009048137 A1 20090219 - LANG FRANK-PETER [DE]
- US 2008096788 A1 20080424 - LANG FRANK-PETER [DE]
- US 2002193280 A1 20021219 - LANG FRANK-PETER [DE], et al
- US 2003171249 A1 20030911 - LANG FRANK-PETER [DE], et al
- US 2010017973 A1 20100128 - DETERING JUERGEN [DE], et al
- DE 4235798 A1 19940428 - BASF AG [DE]
- DE 19621509 A1 19971204 - BASF AG [DE]
- WO 9830664 A1 19980716 - UNILEVER PLC [GB], et al
- WO 2006100246 A1 20060928 - BASF AG [DE], et al
- EP 0753566 A2 19970115 - ROHM & HAAS [US]
- JP H07316590 A 19951205 - LION CORP
- WO 2005026220 A1 20050324 - BASF AG [DE], et al
- WO 9825981 A1 19980618 - BASF AG [DE], et al
- EP 0753570 A2 19970115 - ROHM & HAAS [US]
- CH 690401 A5 20000831 - CIBA SC HOLDING AG [CH]
- US 6039768 A 20000321 - OUZIEL PHILIPPE [FR]
- WO 9732477 A1 19970912 - BASF AG [DE], et al
- WO 9525759 A1 19950928 - BASF AG [DE], et al
- WO 2014148465 A1 20140925 - MITSUBISHI RAYON CO [JP]
- WO 9516815 A1 19950622 - NICCA CHEMICAL CO [JP], et al
- EP 2977507 A1 20160127 - MITSUBISHI RAYON CO [JP]
- WO 9906524 A1 19990211 - BASF AG [DE], et al
- G. ODIAN: "Principles of Polymerization", 2004, WILEY
- "Surfactant Sci. Ser.", vol. 67, 1997, MARCEL DECKER, article "Liquid Detergents", pages: 272 - 304

Citation (search report)

- [X] EP 2295531 A1 20110316 - PROCTER & GAMBLE [US]
- [YD] JP H07316590 A 19951205 - LION CORP
- [Y] EP 1670986 A1 20060621 - BASF AG [DE]
- [A] US 2016047087 A1 20160218 - CREPET BERNARD [FR], et al
- [T] R. RATHINAMOORTHY ET AL: "Optimization of dye transfer inhibition properties of Polyvinylpyrrolidone for reactive dye on cotton fabric", INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH, vol. 41, December 2016 (2016-12-01), pages 432 - 439, XP002776536, Retrieved from the Internet <URL:http://nopr.niscair.res.in/bitstream/123456789/39043/1/IJFTR%2041%284%29%20432-439.pdf> [retrieved on 20171208]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3421583 A1 20190102**

DOCDB simple family (application)  
**EP 17177768 A 20170626**