

Title (en)

Dishwasher detergent containing block copolymers of polyalkylene glycols

Title (de)

Maschinelles Geschirrspülmittel enthaltend Block-Copolymere von Polyalkylenglykolen

Title (fr)

Produit de rinçage de vaisselle pour lave-vaisselle contenant des copolymères en bloc de polyalkylène-glycols

Publication

EP 2733194 A1 20140521 (DE)

Application

EP 12192997 A 20121116

Priority

EP 12192997 A 20121116

Abstract (en)

Use of at least one block copolymer of polyalkenyl glycol for reducing discoloration of plastic dishware in machine dishwashing, is claimed. Independent claims are also included for: (1) a machine dishwashing agent comprising the block copolymer of polyalkenyl glycol; and (2) machine dishwashing method using the above dishwashing agent.

Abstract (de)

Verfärbungen von Kunststoffgeschirr beim maschinellen Geschirrspülen können durch Einsatz von Block-Copolymeren von Polyalkylenglykolen, insbesondere Block-Copolymeren von Polyethylenglykol und Polypropylenglykol verhindert oder zumindest vermindert werden.

IPC 8 full level

C11D 3/37 (2006.01); **C11D 3/00** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP)

C11D 3/0021 (2013.01); **C11D 3/3707** (2013.01); **C11D 2111/18** (2024.01)

Citation (applicant)

- WO 02064720 A1 20020822 - BASF AG [DE], et al
- WO 03095602 A1 20031120 - RECKITT BENCKISER NV [NL], et al
- WO 2010078979 A1 20100715 - HENKEL AG & CO KGAA [DE], et al

Citation (search report)

- [X] US 5501815 A 19960326 - MAN VICTOR F [US]
- [X] JP H06330088 A 19941129 - KAO CORP
- [X] US 4233171 A 19801111 - MCLAUGHLIN ROBERT L, et al
- [X] JP 2009149777 A 20090709 - LION CORP
- [X] JP 2008184500 A 20080814 - KAO CORP
- [Y] DE 102010039815 A1 20120301 - HENKEL AG & CO KGAA [DE]
- [XY] DE 19749964 A1 19990506 - ULRICH GRAJECKI GMBH & CO DIPL [DE]
- [XY] "Technical information about Pluronic PE types", February 1996 (1996-02-01), XP002696181, Retrieved from the Internet <URL:http://www.timing-ouhan.com/images/pluronicpetypes.pdf> [retrieved on 20130425]

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)

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DOCDB simple family (application)

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