

Title (en)

DETERGENTS

Title (de)

REINIGUNGSMITTEL

Title (fr)

DÉTERGENTS

Publication

EP 2185674 A1 20100519 (DE)

Application

EP 08803450 A 20080901

Priority

- EP 2008061467 W 20080901
- DE 102007042860 A 20070910

Abstract (en)

[origin: WO2009033972A1] The invention relates to dishwasher detergents containing: a) 10 to 60 percent by weight of a builder; b) non-ionic surfactant of the general formula R1O[CH₂CH(CH₃)O]_x[CH₂CH₂O]_y[CH₂CH(CH₃)O]_zCH₂CH(OH)R₂, in which R₁ represents a linear or branched aliphatic hydrocarbon radical having 4 to 22 carbon atoms or mixtures thereof, R₂ represents a linear or branched hydrocarbon radical having 2 to 26 carbon atoms or mixtures thereof, x and z represent values between 0 and 40, and y represents a value of at least 15; c) anionic copolymer comprising: i) unsaturated carboxylic acids, ii) sulfonic acid group-containing monomers, characterized in that the weight ratio of the components c) to b) is less than 3:1. In addition to exhibiting a good cleaning and rinsing efficiency, the dishwasher detergents, according to the invention, enhance the drying process of the cleaned crockery.

IPC 8 full level

C11D 1/72 (2006.01); C11D 1/722 (2006.01); C11D 3/37 (2006.01)

CPC (source: EP KR US)

C11D 1/22 (2013.01 - EP US); C11D 1/721 (2013.01 - EP US); C11D 1/722 (2013.01 - EP US); C11D 1/83 (2013.01 - KR); C11D 1/831 (2013.01 - KR); C11D 3/378 (2013.01 - EP US)

Citation (search report)

See references of WO 2009033972A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007042860 A1 20090312; EP 2185674 A1 20100519; EP 2185674 B1 20121121; EP 2185674 B2 20210224; ES 2395886 T3 20130215; ES 2395886 T5 20211011; KR 101548387 B1 20150828; KR 20100061670 A 20100608; PL 2185674 T3 20130430; PL 2185674 T5 20210406; US 2010160204 A1 20100624; WO 2009033972 A1 20090319

DOCDB simple family (application)

DE 102007042860 A 20070910; EP 08803450 A 20080901; EP 2008061467 W 20080901; ES 08803450 T 20080901; KR 20107005267 A 20080901; PL 08803450 T 20080901; US 72078110 A 20100310