

Title (en)

USE OF FORMULATIONS FOR MACHINE DISHWASHING

Title (de)

VERWENDUNG VON ZUBEREITUNGEN FÜR DIE MASCHINELLE GESCHIRRREINIGUNG

Title (fr)

UTILISATION DE PRÉPARATIONS POUR LAVAGE EN LAVE-VAISSELLE

Publication

EP 2788466 B1 20160316 (DE)

Application

EP 12795809 A 20121205

Priority

- EP 11192855 A 20111209
- EP 2012074393 W 20121205
- EP 12795809 A 20121205

Abstract (en)

[origin: WO2013083577A1] The use of formulations comprising (a1) at least one copolymer obtainable through copolymerization of (a1.1) at least one N-vinylamide, (a1.2) vinyl acetate, (a1.3) at least one polyether, (a1.4) optionally at least one further comonomer, (a2) at least one alkoxylate of the general formula (I) $R1-(OCH_2CHR_2)_mOR_3$ where the variables are each defined as follows: R1 is C8-C24-alkyl, linear or branched, R2 is C1-C10-alkyl, in each case the same or different, linear or branched, or hydrogen, R3 is hydrogen or C1-C4-alkyl, linear or branched, m is 1 to 100, in formulations for machine dishwashing.

IPC 8 full level

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

CPC (source: EP RU)

C11D 1/72 (2013.01 - EP); **C11D 1/721** (2013.01 - EP); **C11D 3/37** (2013.01 - RU); **C11D 3/3788** (2013.01 - EP)

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

DOCDB simple family (publication)

WO 2013083577 A1 20130613; BR 112014011576 A2 20170509; CA 2850127 A1 20130613; CN 103987831 A 20140813; EP 2788466 A1 20141015; EP 2788466 B1 20160316; ES 2568011 T3 20160427; IN 4539CHN2014 A 20150918; JP 2015502432 A 20150122; JP 5987064 B2 20160906; KR 20140101842 A 20140820; MX 2014005101 A 20140528; PL 2788466 T3 20160930; RU 2014127729 A 20160210; RU 2604729 C2 20161210

DOCDB simple family (application)

EP 2012074393 W 20121205; BR 112014011576 A 20121205; CA 2850127 A 20121205; CN 201280060636 A 20121205; EP 12795809 A 20121205; ES 12795809 T 20121205; IN 4539CHN2014 A 20140617; JP 2014545209 A 20121205; KR 20147018872 A 20121205; MX 2014005101 A 20121205; PL 12795809 T 20121205; RU 2014127729 A 20121205