

Title (en)

USE OF MODIFIED POLYASPARTIC ACIDS IN DETERGENTS

Title (de)

VERWENDUNG MODIFIZierter POLYASPARAGINSÄUREN IN SPÜLMITTELN

Title (fr)

UTILISATION D'ACIDES POLYASPARTIQUES MODIFIÉS DANS DES PRODUITS DE RINÇAGE

Publication

EP 3047003 A1 20160727 (DE)

Application

EP 14758978 A 20140905

Priority

- EP 13184570 A 20130916
- EP 2014068924 W 20140905
- EP 14758978 A 20140905

Abstract (en)

[origin: WO2015036325A1] The present invention relates to the use of modified polyaspartic acids in dishwashing detergents, more particularly as dispersants, encrustation inhibitors and spot inhibitors. The invention also relates to dishwashing detergent compositions containing modified polyaspartic acids.

IPC 8 full level

C11D 3/37 (2006.01); **C11D 1/66** (2006.01); **C11D 3/33** (2006.01)

CPC (source: EP MX RU US)

C11D 1/66 (2013.01 - EP MX RU US); **C11D 3/33** (2013.01 - EP MX RU US); **C11D 3/37** (2013.01 - RU); **C11D 3/3719** (2013.01 - EP MX US)

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)

WO 2015036325 A1 20150319; CA 2923744 A1 20150319; CN 105555931 A 20160504; CN 105555931 B 20181116; EP 3047003 A1 20160727; EP 3047003 B1 20201111; ES 2851207 T3 20210903; JP 2016536430 A 20161124; KR 20160055917 A 20160518; MX 2016003438 A 20160721; PL 3047003 T3 20210504; RU 2016114687 A 20171023; RU 2016114687 A3 20180322; RU 2665581 C2 20180831; US 2016222322 A1 20160804; US 9796951 B2 20171024

DOCDB simple family (application)

EP 2014068924 W 20140905; CA 2923744 A 20140905; CN 201480050785 A 20140905; EP 14758978 A 20140905; ES 14758978 T 20140905; JP 2016541890 A 20140905; KR 20167010011 A 20140905; MX 2016003438 A 20140905; PL 14758978 T 20140905; RU 2016114687 A 20140905; US 201415022017 A 20140905