

Title (en)

DETERGENTS AND CLEANING PRODUCTS CONTAINING A POLYMER ACTIVE INGREDIENT

Title (de)

WASCH- UND REINIGUNGSMITTEL MIT POLYMEREM WIRKSTOFF

Title (fr)

DÉTERGENTS ET PRODUITS DE NETTOYAGE À PRINCIPE ACTIF POLYMÈRE

Publication

EP 3227421 B1 20181010 (DE)

Application

EP 15798139 A 20151124

Priority

- DE 102014017964 A 20141205
- EP 2015077418 W 20151124

Abstract (en)

[origin: WO2016087258A1] The aim of the invention is to improve the primary detergent power of detergents and cleaning products, in particular with respect to soiling containing oil and/or grease. For this purpose, polymers comprising N-vinyl imidazole-derived betaine units are incorporated into the products.

IPC 8 full level

C11D 3/37 (2006.01)

CPC (source: EP KR US)

C11D 1/48 (2013.01 - US); **C11D 3/28** (2013.01 - US); **C11D 3/3796** (2013.01 - EP KR US); **C11D 7/14** (2013.01 - US); **C11D 7/265** (2013.01 - US); **C11D 9/225** (2013.01 - US); **C11D 9/30** (2013.01 - US); **C11D 11/04** (2013.01 - US); **C11D 3/38663** (2013.01 - US); **C11D 11/02** (2013.01 - US); **C11D 13/10** (2013.01 - US); **C11D 2111/12** (2024.01 - KR US); **C11D 2111/14** (2024.01 - KR 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

DOCDB simple family (publication)

WO 2016087258 A1 20160609; AU 2015357388 A1 20170720; AU 2015357388 B2 20190801; DE 102014017964 A1 20160609; EP 3227421 A1 20171011; EP 3227421 B1 20181010; ES 2704118 T3 20190314; KR 20170091701 A 20170809; PL 3227421 T3 20190531; US 10316276 B2 20190611; US 2017267953 A1 20170921

DOCDB simple family (application)

EP 2015077418 W 20151124; AU 2015357388 A 20151124; DE 102014017964 A 20141205; EP 15798139 A 20151124; ES 15798139 T 20151124; KR 20177018086 A 20151124; PL 15798139 T 20151124; US 201715614353 A 20170605