

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 3280788 A1 20180214 (DE)

Application
EP 16712356 A 20160331

Priority
• DE 102015004399 A 20150410
• EP 2016056986 W 20160331

Abstract (en)
[origin: WO2016162254A1] 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, copolymers comprising ethylenically unsaturated carboxylic acid-derived sulfobetaine units and hydroxyalkyl(meth)acrylic acid esters are incorporated into the products.

IPC 8 full level
C11D 1/22 (2006.01); **C11D 3/37** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP US)
C11D 1/22 (2013.01 - EP US); **C11D 3/3418** (2013.01 - US); **C11D 3/3769** (2013.01 - US); **C11D 3/378** (2013.01 - EP US);
C11D 2111/12 (2024.01 - US); **C11D 2111/14** (2024.01 - US)

Citation (search report)
See references of WO 2016162254A1

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)
DE 102015004399 A1 20161013; EP 3280788 A1 20180214; EP 3280788 B1 20190220; US 10760035 B2 20200901;
US 2018030380 A1 20180201; WO 2016162254 A1 20161013

DOCDB simple family (application)
DE 102015004399 A 20150410; EP 16712356 A 20160331; EP 2016056986 W 20160331; US 201715727703 A 20171009