

Title (en)
DETERGENTS AND CLEANING AGENTS

Title (de)
WASCH- UND REINIGUNGSMITTEL

Title (fr)
AGENT DE LAVAGE ET DE NETTOYAGE

Publication
EP 3234085 B1 20190206 (DE)

Application
EP 15804537 A 20151204

Priority
• DE 102014225789 A 20141215
• EP 2015078649 W 20151204

Abstract (en)
[origin: WO2016096478A1] The aim of the invention is to improve the washing power of detergents and cleaning products, in particular with respect to soiling containing oil and/or grease. For this purpose, a combination of rhamnolipid and N-containing polymers are used.

IPC 8 full level
C11D 1/06 (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP)
C11D 1/06 (2013.01); **C11D 3/222** (2013.01); **C11D 3/3723** (2013.01); **C11D 3/3769** (2013.01); **C11D 3/3776** (2013.01)

Citation (opposition)
Opponent : UNILEVER plc and UNILEVER NV
• US 2014296125 A1 20141002 - KUPPERT DIRK [DE], et al
• EP 2786743 A1 20141008 - EVONIK INDUSTRIES AG [DE]
• WO 2007115872 A1 20071018 - HENKEL KGAA [DE], et al
• US 2009042766 A1 20090212 - MAYER KONSTANZE [DE], et al
• DE 102011089948 A1 20130627 - HENKEL AG & CO KGAA [DE]
• EXPERIMENTAL REPORT DATED NOV 2019 PREPARED BY OPPONENT
• "handbook of detergents", 2006, article RANDALL A WATSON: "Laundry Detergent Formulations", pages: 59 - 60, XP055476696

Cited by
EP4198112A1

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)
DE 102014225789 A1 20160616; EP 3234085 A1 20171025; EP 3234085 B1 20190206; WO 2016096478 A1 20160623

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