

Title (en)
Detergent composition

Title (de)
Wasch- und Reinigungsmittel

Title (fr)
Composition détergente

Publication
EP 2674476 B1 20180418 (EN)

Application
EP 13171413 A 20130611

Priority
• EP 12171551 A 20120611
• EP 13171413 A 20130611

Abstract (en)
[origin: EP2674475A1] Detergent compositions are described having more than one enzyme, in particular having a multi-enzyme co-particle as well as methods of making and using such detergents. The compositions also have low levels of zeolite and phosphate builders and a moisture sink to minimize interaction between enzymes.

IPC 8 full level
C11D 3/386 (2006.01); **C11D 3/04** (2006.01); **C11D 3/12** (2006.01); **C11D 3/382** (2006.01); **D06L 4/40** (2017.01)

CPC (source: EP RU)
C11D 3/046 (2013.01 - EP); **C11D 3/126** (2013.01 - EP); **C11D 3/382** (2013.01 - EP); **C11D 3/38672** (2013.01 - EP); **C11D 3/04** (2013.01 - RU); **C11D 3/06** (2013.01 - RU); **C11D 3/08** (2013.01 - RU); **C11D 3/386** (2013.01 - RU); **C11D 3/395** (2013.01 - RU)

Citation (examination)
US 2007173429 A1 20070726 - SOUTER PHILIP FRANK [GB], et al

Citation (opposition)
Opponent : NOVOZYMES A/S
• US 2008206830 A1 20080828 - BECKER NATHANIEL T [US], et al
• EP 0206418 A2 19861230 - PROCTER & GAMBLE [US]
• EP 0070066 A1 19830119 - PROCTER & GAMBLE [US]
• WO 9009440 A1 19900823 - NOVO NORDISK AS [DK]
• US 4404128 A 19830913 - ANDERSON BARRY J [US]
• WO 2012134969 A1 20121004 - PROCTER & GAMBLE [US], et al
• EP 2377914 A1 20111019 - PROCTER & GAMBLE [US]
• WO 2005083049 A2 20050909 - PROCTER & GAMBLE [US], et al
• US 2007173429 A1 20070726 - SOUTER PHILIP FRANK [GB], et al
• WO 2005083046 A1 20050909 - PROCTER & GAMBLE [US], et al

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)
EP 2674475 A1 20131218; BR 112014030417 A2 20170627; BR 112014030417 A8 20210413; BR 112014030417 B1 20240227; CN 104364364 A 20150218; CN 111205939 A 20200529; DK 2674476 T3 20180716; DK 2674476 T4 20220103; EP 2674476 A1 20131218; EP 2674476 B1 20180418; EP 2674476 B2 20211110; ES 2674940 T3 20180705; ES 2674940 T5 20220317; HU E038095 T2 20181029; IN 10427DEN2014 A 20150821; JP 2015528828 A 20151001; MX 2014015172 A 20150217; MX 370587 B 20191217; PL 2674476 T3 20180928; PL 2674476 T5 20211227; RU 2014149582 A 20160710; RU 2612142 C2 20170302; TR 201809430 T4 20180723; WO 2013188331 A1 20131219; ZA 201408580 B 20170426

DOCDB simple family (application)
EP 12171551 A 20120611; BR 112014030417 A 20130611; CN 201380030796 A 20130611; CN 202010099823 A 20130611; DK 13171413 T 20130611; EP 13171413 A 20130611; ES 13171413 T 20130611; HU E13171413 A 20130611; IN 10427DEN2014 A 20141208; JP 2015516278 A 20130611; MX 2014015172 A 20130611; PL 13171413 T 20130611; RU 2014149582 A 20130611; TR 201809430 T 20130611; US 2013045070 W 20130611; ZA 201408580 A 20141121