

Title (en)
DETERGENT COMPOSITION

Title (de)
REINIGUNGSMITTELZUSAMMENSETZUNG

Title (fr)
COMPOSITION DE DÉTERGENT

Publication
EP 3619288 B1 20201021 (EN)

Application
EP 18716258 A 20180406

Priority
• EP 17169489 A 20170504
• EP 2018058886 W 20180406

Abstract (en)
[origin: WO2018202383A1] A detergent composition comprising from 20 to 80 wt. % of alkali carbonate; and from 1.0 to 10 wt. % of nonionic surfactant; and from 1.0 to 10 wt.% of copolymer comprising: i. monomers containing sulfonic acid groups; ii. further ionic and/or nonionic monomers; and from 0.1 to 9.0 wt. % of a mixture of: a) phosphonates, phosphonic acids or a combination thereof; and b) phosphates, phosphoric acids or a combination thereof.

IPC 8 full level
C11D 3/10 (2006.01); **C11D 1/66** (2006.01); **C11D 3/36** (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP)
C11D 1/66 (2013.01); **C11D 3/10** (2013.01); **C11D 3/361** (2013.01); **C11D 3/362** (2013.01); **C11D 3/378** (2013.01)

Citation (opposition)
Opponent : Henkel AG & Co. KGaA
• WO 9736991 A1 19971009 - PROCTER & GAMBLE [US], et al
• WO 2009074398 A1 20090618 - HENKEL AG & CO KGAA [DE], et al
• WO 2014075799 A1 20140522 - CLARIANT INT LTD [CH]
• WO 2017013162 A1 20170126 - HENKEL AG & CO KGAA [DE]
• WO 2017013158 A1 20170126 - HENKEL AG & CO KGAA [DE]
• ANONYMOUS: "ACUSOL™ 588 Polyphosphate and Silicate Scale Inhibitor for Laundry and Automatic Dishwashing Detergents", ROHMIHAAS, 1 August 2004 (2004-08-01), pages 1 - 2, XP055830377, Retrieved from the Internet <URL:https://www.innovation-plus.com.tw/essence-plus689/program_download/good/201807151744177046.pdf> [retrieved on 20210805]
• NAVARRO MIREYA: "Cleaner for the Environment, Not for the Dishes - The New York Times", NEW YORK TIMES, 18 September 2010 (2010-09-18), pages 1 - 2, XP055830378, Retrieved from the Internet <URL:https://www.nytimes.com/2010/09/19/science/earth/19clean.html> [retrieved on 20210805]
Opponent : Reckitt Benckiser Finish B.V.
• US 2010222247 A1 20100902 - ZIPFEL JOHANNES [DE], et al
• EP 2700703 A1 20140226 - PROCTER & GAMBLE [US]
• WO 2011027170 A2 20110310 - RECKITT BENCKISER NV [NL], et al
• US 2006079425 A1 20060413 - KAPUR NEHA [GB], et al
• US 2010029536 A1 20100204 - WARKOTSCH NADINE [DE], et al
• EP 1332202 B1 20061018 - ECOLAB INC [US]

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2018202383 A1 20181108; BR 112019022999 A2 20200519; CN 110603312 A 20191220; CN 110603312 B 20211015;
EP 3619288 A1 20200311; EP 3619288 B1 20201021; ZA 201906400 B 20210224

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EP 2018058886 W 20180406; BR 112019022999 A 20180406; CN 201880029113 A 20180406; EP 18716258 A 20180406;
ZA 201906400 A 20190927