

Title (en)
DETERGENTS

Title (de)
REINIGUNGSMITTEL

Title (fr)
DÉTERGENTS

Publication
EP 2115112 A2 20091111 (DE)

Application
EP 07847824 A 20071205

Priority
• EP 2007063327 W 20071205
• DE 102007006630 A 20070206

Abstract (en)
[origin: WO2008095561A2] The invention relates to phosphate-free dishwasher detergents which contain a builder, bleaching agents, a nonionic surfactant, and also a) a copolymer comprising i) sulfonic acid group-containing monomers, ii) further ionic and/or nonionogenic monomers, b) phosphonate. The detergents according to the invention have good scale-inhibiting, cleaning and rinsing results which are comparable to those of phosphate-containing dishwasher detergents or even outdo them.

IPC 8 full level
C11D 3/36 (2006.01); **C11D 1/66** (2006.01); **C11D 3/20** (2006.01); **C11D 3/37** (2006.01); **C11D 3/39** (2006.01)

CPC (source: EP US)
C11D 3/2086 (2013.01 - EP US); **C11D 3/361** (2013.01 - EP US); **C11D 3/378** (2013.01 - EP US)

Citation (search report)
See references of WO 2008095561A2

Citation (third parties)
Third party :
EP 1721962 A1 20061115 - UNILEVER NV [NL], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102007006630 A1 20080807; DE 202007019720 U1 20170607; EP 2115112 A2 20091111; EP 2115112 B1 20190703; EP 3567094 A1 20191113; ES 2743235 T3 20200218; PL 2115112 T3 20191231; US 2010029536 A1 20100204; US 7879154 B2 20110201; WO 2008095561 A2 20080814; WO 2008095561 A3 20081009

DOCDB simple family (application)
DE 102007006630 A 20070206; DE 202007019720 U 20071205; EP 07847824 A 20071205; EP 19181847 A 20071205; EP 2007063327 W 20071205; ES 07847824 T 20071205; PL 07847824 T 20071205; US 53595609 A 20090805