

Title (en)
AUTOMATIC DISHWASHING DETERGENT COMPOSITION

Title (de)
MASCHINELLES GESCHIRRSPÜLMITTEL

Title (fr)
DÉTERGENT POUR LAVE-VAISSELLE

Publication
EP 2446013 A1 20120502 (DE)

Application
EP 10722376 A 20100617

Priority
• EP 2010058537 W 20100617
• DE 102009027158 A 20090624

Abstract (en)
[origin: WO2010149564A1] Detergent combinations comprising - a detergent formulation B comprising b1) at least one nonionic surfactant and b2) at least one cleaning-active enzyme; - a rinse aid composition C comprising c1) at least one nonionic surfactant, are suitable, owing to their thermal stability, especially for performance of automatic metering processes in machine dishwashing, and are additionally notable for a significant improvement in cleaning performance compared to conventional processes.

IPC 8 full level
C11D 17/04 (2006.01); **A47L 15/44** (2006.01); **C11D 1/72** (2006.01); **C11D 3/386** (2006.01)

CPC (source: EP US)
C11D 1/721 (2013.01 - EP US); **C11D 3/386** (2013.01 - EP US); **C11D 17/041** (2013.01 - EP US); **C11D 2111/14** (2024.01 - EP US)

Citation (search report)
See references of WO 2010149564A1

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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102009027158 A1 20101230; EP 2446013 A1 20120502; EP 2446013 B1 20170809; EP 3260524 A1 20171227; EP 3260524 B1 20210127; ES 2641943 T3 20171114; ES 2856868 T3 20210928; HU E034494 T2 20180228; PL 2446013 T3 20180131; PL 3260524 T3 20210628; US 2012090644 A1 20120419; US 2012199165 A1 20120809; US 8349785 B2 20130108; WO 2010149564 A1 20101229

DOCDB simple family (application)
DE 102009027158 A 20090624; EP 10722376 A 20100617; EP 17181064 A 20100617; EP 2010058537 W 20100617; ES 10722376 T 20100617; ES 17181064 T 20100617; HU E10722376 A 20100617; PL 10722376 T 20100617; PL 17181064 T 20100617; US 201113329435 A 20111219; US 201213454800 A 20120424