

Title (en)

METHOD FOR METERING A DISHWASHING AGENT INTO A DISHWASHER, METERING DEVICE FOR A DISHWASHER, AND DISHWASHING AGENT COMPRISING A PLURALITY OF COMPONENTS

Title (de)

VERFAHREN ZUM DOSIEREN EINES GESCHIRRSPÜLMITTELS IN EINE GESCHIRRSPÜLMASCHINE, DOSIERTORRICHTUNG FÜR EINE GESCHIRRSPÜLMASCHINE UND GESCHIRRSPÜLMITTEL MIT MEHREREN KOMPONENTEN

Title (fr)

PROCÉDÉ DE DOSAGE D'UN DÉTERGENT VAISSELLE DANS UN LAVE-VAISSELLE, DISPOSITIF DE DOSAGE POUR LAVE-VAISSELLE ET DÉTERGENT VAISSELLE À PLUSIEURS COMPOSANTS

Publication

EP 3457907 B1 20220615 (DE)

Application

EP 17719281 A 20170426

Priority

- DE 102016208740 A 20160520
- EP 2017059945 W 20170426

Abstract (en)

[origin: WO2017198431A1] Method for metering a dishwashing agent into a dishwasher (1) comprising a metering device (100) that has at least three metering units (110, 120, 130).

IPC 8 full level

A47L 15/00 (2006.01); **A47L 15/44** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP)

A47L 15/0055 (2013.01); **A47L 15/4463** (2013.01); **A47L 2301/06** (2013.01); **A47L 2401/023** (2013.01); **A47L 2401/026** (2013.01); **A47L 2401/03** (2013.01); **A47L 2401/04** (2013.01); **A47L 2401/06** (2013.01); **A47L 2401/10** (2013.01); **A47L 2401/11** (2013.01); **A47L 2401/12** (2013.01); **A47L 2401/20** (2013.01); **A47L 2501/07** (2013.01); **C11D 2111/14** (2024.01); **C11D 2111/44** (2024.01)

Citation (opposition)

Opponent : Henkel AG & Co. KGaA

- DE 102005062479 A1 20070705 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- DE 102010003770 A1 20111013 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- DE 102009027164 A1 20101230 - HENKEL AG & CO KGAA [DE]
- GB 2501503 A 20131030 - RECKITT & COLMAN OVERSEAS [GB]
- WO 2013076491 A1 20130530 - RECKITT & COLMAN OVERSEAS [GB]
- WO 2005058126 A1 20050630 - BSH BOSCH SIEMENS HAUSGERAETE [DE], et al
- WO 2011051419 A1 20110505 - HENKEL AG & CO KGAA [DE], et al
- US 2006216217 A1 20060928 - CHAN WAI YIN C [US], et al
- WO 2014108684 A1 20140717 - RECKITT BENCKISER BRANDS LTD [GB]

Opponent : THE PROCTER & GAMBLE COMPANY

- US 2007193601 A1 20070823 - TOBIAS ANDREW J [US], et al
- DE 102010003770 A1 20111013 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- US 2012090645 A1 20120419 - KESSLER ARND [DE], et al
- ANONYMOUS: "REGULATION (EU) No 259/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL", OFFICIAL JOURNAL OF THE EUROPEAN UNION, 14 March 2012 (2012-03-14), pages 1 - 6, XP093049230
- "BASF presents new types of Trilon M chelating agent", FOCUS ON SURFACTANTS, ELSEVIER, AMSTERDAM, NL, vol. 2016, no. 1, 1 January 1900 (1900-01-01), AMSTERDAM, NL , pages 3 - 4, XP029388949, ISSN: 1351-4210, DOI: 10.1016/j.fos.2016.01.014
- JOAN GAMBOGI, SHARON KENNEDY, AND EDNA AMBUNDO: "Dishwashing with Detergents ", 1 January 2008, TAYLOR & FRANCIS GROUP, article ZOLLER U.: "Sanitization—Electrochemical Cells", pages: 60 - 61, XP093050491
- ANONYMOUS: "ULTRA WASH Dishwasher, Use and Care Guide", KENMORE ELITE, 1 January 2009 (2009-01-01), pages 1 - 64, XP093050493

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)

WO 2017198431 A1 20171123; CN 109152510 A 20190104; DE 102016208740 A1 20171123; EP 3457907 A1 20190327;
EP 3457907 B1 20220615; PL 3457907 T3 20220829

DOCDB simple family (application)

EP 2017059945 W 20170426; CN 201780031009 A 20170426; DE 102016208740 A 20160520; EP 17719281 A 20170426;
PL 17719281 T 20170426