

Title (en)

FORMULATIONS, USE AS DISHWASHING COMPOSITIONS AND THEIR PRODUCTION

Title (de)

FORMULIERUNGEN, IHRE VERWENDUNG ALS GESCHIRRSPÜLMITTEL UND IHRE HERSTELLUNG

Title (fr)

FORMULES, LEUR UTILISATION COMME DÉTERGENT POUR LAVE-VAISSELLE ET LEUR FABRICATION

Publication

**EP 2981600 A1 20160210 (DE)**

Application

**EP 14715875 A 20140328**

Priority

- EP 13161998 A 20130402
- EP 2014056312 W 20140328
- EP 14715875 A 20140328

Abstract (en)

[origin: WO2014161786A1] The invention concerns formulations containing: (A) in total in the range of 1 to 50 wt.% of at least one compound selected from methylglycine diacetic acid (MGDA), glutamic acid diacetate (GLDA) and their salts; (B) in total in the range of 0.01 to 0.4 wt. % of at least one zinc salt, given as zinc; (C) in total in the range of 0.001 to 0.045 wt. % homo- or copolymer of ethylenimine; and (D) optionally 0.5 to 15 wt. % bleach, in each case relative to the solids content of the particular formulation.

IPC 8 full level

**C11D 3/00** (2006.01); **C11D 3/04** (2006.01); **C11D 3/12** (2006.01); **C11D 3/20** (2006.01); **C11D 3/33** (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP RU US)

**C11D 3/0073** (2013.01 - EP US); **C11D 3/046** (2013.01 - EP US); **C11D 3/12** (2013.01 - RU); **C11D 3/1213** (2013.01 - EP US); **C11D 3/2075** (2013.01 - EP US); **C11D 3/2082** (2013.01 - US); **C11D 3/33** (2013.01 - EP RU US); **C11D 3/37** (2013.01 - RU); **C11D 3/3723** (2013.01 - EP US); **C11D 3/395** (2013.01 - RU US)

Citation (search report)

See references of WO 2014161786A1

Cited by

WO2023117494A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2014161786 A1 20141009**; BR 112015024938 A2 20170718; CN 105102602 A 20151125; CN 105102602 B 20180525; EP 2981600 A1 20160210; EP 2981600 B1 20180321; ES 2672303 T3 20180613; JP 2016519186 A 20160630; JP 2019073714 A 20190516; JP 6486899 B2 20190320; KR 101925274 B1 20181205; KR 20150140718 A 20151216; PL 2981600 T3 20180831; RU 2015146823 A 20170503; RU 2656214 C2 20180601; TR 201808395 T4 20180723; US 2016186098 A1 20160630; US 9994797 B2 20180612

DOCDB simple family (application)

**EP 2014056312 W 20140328**; BR 112015024938 A 20140328; CN 201480019176 A 20140328; EP 14715875 A 20140328; ES 14715875 T 20140328; JP 2016505774 A 20140328; JP 2018234107 A 20181214; KR 20157031348 A 20140328; PL 14715875 T 20140328; RU 2015146823 A 20140328; TR 201808395 T 20140328; US 201414771100 A 20140328