

Title (en)

Scale-reducing additive for automatic dishwashing systems

Title (de)

Wassersteinreduzierendes Additiv für automatische Geschirrspülsysteme

Title (fr)

Additif de réduction de tartre pour systèmes de lavage automatique de la vaisselle

Publication

EP 2228428 B1 20130116 (EN)

Application

EP 10154198 A 20100222

Priority

- US 21002509 P 20090313
- US 33730010 P 20100202

Abstract (en)

[origin: EP2228428A1] A phosphorus-free automatic dishwashing detergent composition containing a polymer of acrylic acid, maleic acid and 2-acrylamido-2-methylpropanesulfonic acid (AMPS); a carbonate; and a silicate. The composition contains carbonate and silicate in a weight ratio from 2.5:1 to 1:4, respectively; from 10 to 90 wt% total carbonate and silicate.

IPC 8 full level

C11D 3/37 (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 7/12** (2006.01); **C11D 7/14** (2006.01)

CPC (source: EP)

C11D 3/08 (2013.01); **C11D 3/10** (2013.01); **C11D 3/378** (2013.01); **C11D 7/12** (2013.01); **C11D 7/14** (2013.01)

Cited by

CN107075425A; CN107075418A; CN107429198A; CN111201254A; WO2016153581A1; US11292992B2; WO2022189536A1; WO2019083718A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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