

Title (en)

Dishwashing composition comprising layered silicates.

Title (de)

Schichtsilikate enthaltendes Geschirrspülmittel.

Title (fr)

Agent pour le lavage de la vaisselle comprenant des silicates en couche.

Publication

EP 0416366 B1 19951108 (DE)

Application

EP 90115975 A 19900821

Priority

DE 3929896 A 19890908

Abstract (en)

[origin: US5066415A] A dishwashing agent consists of a crystalline, largely water-insoluble sodium layer silicate having a molar ratio of SiO₂/Na₂O of (1.9 to 3.5):1 in combination with a proton donor, a 0.5% strength by weight aqueous solution of the dishwashing agent having a pH of less than 10. The dishwashing agent can furthermore contain a surfactant, an active chlorine or active oxygen carrier, a dispersing agent, an alkali metal phosphate or an alkali metal polyphosphate and a filler.

IPC 1-7

C11D 3/12; **C11D 3/20**; **C11D 3/36**; **C11D 3/395**

IPC 8 full level

C11D 7/20 (2006.01); **C11D 3/08** (2006.01); **C11D 3/12** (2006.01); **C11D 3/20** (2006.01); **C11D 3/36** (2006.01); **C11D 3/395** (2006.01)

CPC (source: EP US)

C11D 3/1273 (2013.01 - EP US); **C11D 3/2082** (2013.01 - EP US); **C11D 3/361** (2013.01 - EP US); **C11D 3/395** (2013.01 - EP US)

Citation (examination)

- DE 2062465 B2 19761125
- DE 2142055 A1 19720316

Cited by

EP0550077A1; FR2751341A1; FR2751340A1; AU666316B2; CN1037453C; US5874397A; EP0753568A3; US6462006B1; US6299701B1; US6463939B1; WO9957237A1; WO9802515A1; WO9416045A1; WO9218594A1; WO9612783A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR LI NL SE

DOCDB simple family (publication)

EP 0416366 A2 19910313; **EP 0416366 A3 19920401**; **EP 0416366 B1 19951108**; AT E130027 T1 19951115; CA 2023240 A1 19910309; CA 2023240 C 20000411; DE 3929896 A1 19910314; DE 59009851 D1 19951214; DK 0416366 T3 19960304; ES 2079408 T3 19960116; JP 2886645 B2 19990426; JP H03100100 A 19910425; PT 95225 A 19910625; PT 95225 B 19970630; US 5066415 A 19911119

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