

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 SiO<sub>2</sub>/Na<sub>2</sub>O 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)

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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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