

Title (en)

LIQUID OR GEL DETERGENT COMPOSITIONS CONTAINING CALCIUM AND STABILIZING AGENT THEREOF.

Title (de)

FLÜSSIGE ODER GELFÖRMIGE WASCHMITTELZUSAMMENSETZUNGEN ENTHALTEND CALCIUM UND EINEN STABILISATOR.

Title (fr)

COMPOSITIONS DETERGENTES LIQUIDES OU EN GEL CONTENANT DU CALCIUM ET STABILISANT DE CELLES-CI.

Publication

EP 0658188 A4 19950809 (EN)

Application

EP 93921186 A 19930825

Priority

- EP 93921186 A 19930825
- EP 92870139 A 19920901
- US 9307994 W 19930825

Abstract (en)

[origin: WO9405758A1] Liquid or gel detergent compositions having improved physical stability comprise, by weight of the composition: (a) from about 3 percent to about 95 % of anionic sulfate or sulfonate surfactant; (b) from about 3 % to about 40 % nonionic surfactant, preferably polyhydroxy fatty acid amide having formula (I) wherein R1 is hydrogen, C1-C4 hydrocarbyl, 2-hydroxyethyl, 2-hydroxypropyl, or mixtures thereof; R2 is C5-C31 hydrocarbyl; and Z is a polyhydroxy-hydrocarbyl having a linear hydrocarbyl chain with at least three hydroxyl groups directly connected to the chain, or an alkoxyated derivative thereof; (c) from about 0.1 % to about 3 % of calcium or strontium ions; (d) from 0.05 to 10 % of malic, maleic or acetic acid, at a molar ratio with calcium of from 0.01:1 to 10:1.

IPC 1-7

C11D 1/83; **C11D 3/02**; **C11D 3/32**; **C11D 17/00**

IPC 8 full level

C11D 1/12 (2006.01); **C11D 1/52** (2006.01); **C11D 1/66** (2006.01); **C11D 1/83** (2006.01); **C11D 1/86** (2006.01); **C11D 3/02** (2006.01); **C11D 3/04** (2006.01); **C11D 3/20** (2006.01); **C11D 3/32** (2006.01); **C11D 17/00** (2006.01); **C11D 17/08** (2006.01); **C11D 1/06** (2006.01); **C11D 1/14** (2006.01); **C11D 1/29** (2006.01); **C11D 1/72** (2006.01); **C11D 1/75** (2006.01); **C11D 1/90** (2006.01); **C11D 1/92** (2006.01)

CPC (source: EP)

C11D 1/86 (2013.01); **C11D 3/046** (2013.01); **C11D 3/2079** (2013.01); **C11D 3/2082** (2013.01); **C11D 17/003** (2013.01); **C11D 1/06** (2013.01); **C11D 1/12** (2013.01); **C11D 1/14** (2013.01); **C11D 1/29** (2013.01); **C11D 1/525** (2013.01); **C11D 1/662** (2013.01); **C11D 1/72** (2013.01); **C11D 1/75** (2013.01); **C11D 1/90** (2013.01); **C11D 1/92** (2013.01)

Citation (search report)

- [A] WO 9206171 A1 19920416 - PROCTER & GAMBLE [US]
- [A] WO 9208777 A1 19920529 - PROCTER & GAMBLE [US]
- [A] WO 9206156 A1 19920416 - PROCTER & GAMBLE [US]
- [A] WO 9206158 A1 19920416 - PROCTER & GAMBLE [US]
- [A] EP 0254653 A2 19880127 - LESIEUR COTELLE [FR]
- See references of WO 9405758A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 9405758 A1 19940317; CA 2143330 A1 19940317; CA 2143330 C 19990223; CN 1086842 A 19940518; CZ 53895 A3 19951115; EP 0658188 A1 19950621; EP 0658188 A4 19950809; JP H08500630 A 19960123; MA 22968 A1 19940401; MX 9305316 A 19950131; TR 27708 A 19950622

DOCDB simple family (application)

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