

Title (en)
PHOSPHATE-FREE DETERGENT WITH A REDUCED FOAMING TENDENCY

Publication
EP 0273377 A3 19901031 (DE)

Application
EP 87119089 A 19871223

Priority
DE 3644808 A 19861231

Abstract (en)
[origin: US4832863A] A detergent composition which is distinguished by high detergency with respect to soil containing mineral oil and by low foaming both in the wash cycle and in the rinse cycle of automatic washing machines comprising (A) from 0.5 to 2% by weight C9-C13 alkyl benzenesulfonate, (B) from 10 to 15% by weight of a fatty alcohol or oxo alcohol containing 2 to 4 ethylene oxide groups, (C) from 4 to 8% by weight of a fatty alcohol or oxo alcohol containing 6 to 8 ethylene oxide groups, the alcohols in (C) and (D) containing 12 to 15 carbon atoms, (E) from 0 to 2% by weight of a saturated or mono-unsaturated C16-C18 alcohol containing 3 to 7 ethylene oxide groups, (E) from 5 to 20% by weight finely-divided crystalline zeolite, (F) from 40 to 60% by weight anhydrous sodium carbonate, (G) from 2 to 7% by weight sodium silicate and (H) from 0.5 to 2% by weight of a polymeric soil redeposition inhibitor.

IPC 1-7
C11D 1/83; **C11D 3/12**; **C11D 3/08**; **C11D 3/10**

IPC 8 full level
C11D 10/02 (2006.01); **C11D 1/83** (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 3/12** (2006.01)

CPC (source: EP US)
C11D 1/8305 (2013.01 - EP US); **C11D 3/0026** (2013.01 - EP US); **C11D 3/08** (2013.01 - EP US); **C11D 3/10** (2013.01 - EP US); **C11D 3/128** (2013.01 - EP US)

Citation (search report)
• [A] CA 1141619 A 19830222 - COLGATE PALMOLIVE CO
• [A] EP 0200953 A2 19861112 - HENKEL KGAA [DE]
• [A] CA 1036455 A 19780815 - HENKEL KGAA
• [A] FR 2204684 A1 19740524 - PROCTER & GAMBLE [US]

Cited by
EP0364067A3; TR26724A; EP0374472A1; AU626955B2; US6398820B1; WO9859025A1; WO9314182A1; WO9005773A1

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0273377 A2 19880706; **EP 0273377 A3 19901031**; DE 3644808 A1 19880714; DK 694587 A 19880701; DK 694587 D0 19871230; JP H01174599 A 19890711; US 4832863 A 19890523

DOCDB simple family (application)
EP 87119089 A 19871223; DE 3644808 A 19861231; DK 694587 A 19871230; JP 33683287 A 19871228; US 13720287 A 19871222