

Title (en)

PASTE-LIKE, PHOSPHATE-FREE DETERGENT WITH REDUCED FROTHING TENDENCY.

Title (de)

PASTÖSES, PHOSPHATFREIES WASCHMITTEL MIT VERRINGERTER SCHAUMNEIGUNG.

Title (fr)

DETERGENT PATEUX SANS PHOSPHATE, AVEC TENDANCE A MOUSSER REDUITE.

Publication

EP 0541523 B1 19950125 (DE)

Application

EP 89912963 A 19891115

Priority

- DE 3839602 A 19881124
- EP 8901371 W 19891115

Abstract (en)

[origin: WO9005773A1] A paste-like phosphate-free detergent which is particularly suitable for washing heavily stained working clothes and which does not produce undesirable froth, contains essentially (A) 1 to 3 wt. % of sodium alkylbenzolsulphonate with linear alkyl chains with 9 to 13 carbon atoms, (B) 14 to 18 wt. % of a saturated primary alcohol with 12 to 15 carbon atoms which is either linear or has methyl chains in the 2-position and which contains 2 to 4 ethylene glycol ether groups, (C) 12 to 16 wt. % of a saturated primary alcohol with 12 to 15 carbon atoms which is either linear or has methyl chains in the 2-position and which contains 6 to 8 ethylene glycol ether groups, (D) 50 to 65 wt. % of sodium silicate of composition Na₂₀:SiO₂ = 1:0.8 to 1:1.5, (E) 2 to 8 wt. %, referred to the sodium salt, of at least one complexing agent from the class of nitrilotriacetic acid and the polyphosphonic acids, (F) 0.5 to 2.5 wt. % of water-soluble polymers which inhibit greying, (G) 0 to 5 wt. % of other detergent constituents which are neither tensides nor builder and (H) less than 4 wt. % of water. The paste can be introduced into washing machines by means of automatic dispensers.

IPC 1-7

C11D 1/83; C11D 3/08

IPC 8 full level

C11D 1/83 (2006.01); **C11D 3/08** (2006.01); **C11D 3/60** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C11D 17/08** (2006.01)

CPC (source: EP KR US)

C11D 1/83 (2013.01 - KR); **C11D 1/8305** (2013.01 - EP US); **C11D 17/003** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)

EP 0374472 A1 19900627; AT E117719 T1 19950215; AU 4626189 A 19900612; AU 626955 B2 19920813; BR 8907784 A 19910827; CA 2003519 A1 19900524; CA 2003519 C 20000418; DE 3839602 A1 19900531; DE 58908953 D1 19950309; DK 96591 A 19910522; DK 96591 D0 19910522; EP 0541523 A1 19930519; EP 0541523 B1 19950125; ES 2066883 T3 19950316; JP 2682534 B2 19971126; JP H04502172 A 19920416; KR 900701990 A 19901205; NZ 231480 A 19920526; PT 92395 A 19900531; TR 24150 A 19910425; US 5234628 A 19930810; WO 9005773 A1 19900531; ZA 898950 B 19900725

DOCDB simple family (application)

EP 89121136 A 19891115; AT 89912963 T 19891115; AU 4626189 A 19891115; BR 8907784 A 19891115; CA 2003519 A 19891121; DE 3839602 A 19881124; DE 58908953 T 19891115; DK 96591 A 19910522; EP 8901371 W 19891115; EP 89912963 A 19891115; ES 89912963 T 19891115; JP 50017090 A 19891115; KR 900701605 A 19900724; NZ 23148089 A 19891122; PT 9239589 A 19891123; TR 96089 A 19891113; US 68850891 A 19910524; ZA 898950 A 19891123