

Title (en)
WASHING AGENT CONTAINING BLEACH, IN LIQUID TO PASTE FORM

Publication
EP 0448581 B1 19930901 (DE)

Application
EP 90900135 A 19891205

Priority
DE 3842007 A 19881214

Abstract (en)
[origin: EP0373483A1] A phosphate-free washing agent in liquid to paste form contains (A) 20 to 35 wt.% of a tenside component composed of (A1) 1 to 4 wt.% of anionic tensides from the class of sulphonates and soaps and (A2) 16 to 34 wt.% of non-ionic tensides with a pour point of at least 10 DEG C; (B) 10 to 35 wt.% of builder salts which form complexes or bind alkaline earth metal ions; (c) 15 to 40 wt.% of sodium metasilicate; (D) 8 to 25 wt.% of per-salts with a bleaching action; (E) up to 15 wt.% of other washing agent constituents; (F) less than 3 wt.% of water, provided that the sum of the components (B+C) = 30 to 60 wt.%. In each case, the content is expressed as a percentage of the weight of the washing agent.

IPC 1-7
C11D 1/831; **C11D 3/39**; **C11D 10/04**

IPC 8 full level
C11D 1/83 (2006.01); **C11D 1/831** (2006.01); **C11D 3/39** (2006.01); **C11D 10/04** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C11D 17/08** (2006.01); **C11D 1/04** (2006.01); **C11D 1/22** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP KR US)
C11D 1/83 (2013.01 - EP US); **C11D 1/831** (2013.01 - EP US); **C11D 3/39** (2013.01 - KR); **C11D 3/3937** (2013.01 - EP US); **C11D 3/3947** (2013.01 - EP US); **C11D 10/04** (2013.01 - EP US); **C11D 17/0004** (2013.01 - EP US); **C11D 1/04** (2013.01 - EP US); **C11D 1/22** (2013.01 - EP US); **C11D 1/72** (2013.01 - EP US)

Cited by
US6187739B1

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

DOCDB simple family (publication)
EP 0373483 A1 19900620; BR 8907821 A 19911022; DE 3842007 A1 19900621; DE 58905488 D1 19931007; DK 112491 A 19910805; DK 112491 D0 19910612; EP 0448581 A1 19911002; EP 0448581 B1 19930901; ES 2043353 T3 19931216; FI 912464 A0 19910521; FI 99142 B 19970630; FI 99142 C 19971010; IE 71938 B1 19970312; IE 893981 L 19900614; JP H04502338 A 19920423; KR 910700326 A 19910314; KR 970002041 B1 19970221; PT 92544 A 19900629; PT 92544 B 19960830; TR 24156 A 19910426; US 5456850 A 19951010; WO 9006986 A1 19900628

DOCDB simple family (application)
EP 89122421 A 19891205; BR 8907821 A 19891205; DE 3842007 A 19881214; DE 58905488 T 19891205; DK 112491 A 19910612; EP 8901487 W 19891205; EP 90900135 A 19891205; ES 90900135 T 19900704; FI 912464 A 19910521; IE 398189 A 19891213; JP 50056090 A 19891205; KR 900701774 A 19900814; PT 9254489 A 19891212; TR 102589 A 19891211; US 69089791 A 19910814