

Title (en)
STABLE, AQUEOUS DETERGENTS AND PROCESS FOR THEIR PREPARATION

Publication
EP 0110106 B1 19861008 (DE)

Application
EP 83110508 A 19831021

Priority
DE 3240088 A 19821029

Abstract (en)
[origin: US4438016A] Stable, aqueous cleaning agents containing (a) anionic and/or nonionic surfactants, optionally chlorine-stable, (b) an abrasive component and/or (c) an active-chlorine-releasing compound and, optionally, (d) dyes and (e) fragrances, characterized in (f) a further content of amorphous calcium aluminum silicates precipitated in situ; and the process of their preparation wherein the various ingredients are mixed and the amorphous calcium aluminum silicates are formed by precipitation therein.

IPC 1-7
C11D 3/12; **C11D 3/395**; **C11D 3/14**

IPC 8 full level
C11D 3/14 (2006.01); **C11D 3/12** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 11/04** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)
C11D 3/1286 (2013.01 - EP US); **C11D 3/3956** (2013.01 - EP US); **C11D 17/0013** (2013.01 - EP US)

Cited by
GB2205325A; GB2205325B; GB2153380A; US6225272B1; WO9821300A3

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

DOCDB simple family (publication)
US 4438016 A 19840320; AT E22701 T1 19861015; BR 8305972 A 19840605; DE 3240088 A1 19840503; DE 3366706 D1 19861113; EP 0110106 A2 19840613; EP 0110106 A3 19850313; EP 0110106 B1 19861008; ES 526823 A0 19841201; ES 8501795 A1 19841201; JP H0455240 B2 19920902; JP S5993798 A 19840530; ZA 838077 B 19840725

DOCDB simple family (application)
US 47586983 A 19830316; AT 83110508 T 19831021; BR 8305972 A 19831027; DE 3240088 A 19821029; DE 3366706 T 19831021; EP 83110508 A 19831021; ES 526823 A 19831027; JP 20012983 A 19831027; ZA 838077 A 19831028