

Title (en)
STABILIZED BUILT AQUEOUS LIQUID SOFTERGENT COMPOSITIONS

Publication
EP 0580245 A3 19960515 (EN)

Application
EP 93202130 A 19930720

Priority
• US 4068393 A 19930331
• US 91521092 A 19920720

Abstract (en)
[origin: EP0580245A2] The preferred "softergent" compositions include a clay softener, a mixture of anionic and nonionic surfactants, and detergent builder(s). The detergent builder is preferably a crystalline aluminosilicate zeolite. Stabilization is achieved using an antiflocculating structurant polymer, such as low molecular weight polyacrylic acid. The anionic surfactant is preferably an ethoxylated alkyl sulfate. Enzymes and enzyme stabilizers are also included in preferred compositions.

IPC 1-7
C11D 3/37; **C11D 3/12**; **C11D 1/29**; **C11D 1/83**; **C11D 3/386**

IPC 8 full level
C11D 1/29 (2006.01); **C11D 1/83** (2006.01); **C11D 3/12** (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01); **C11D 1/72** (2006.01); **C11D 1/722** (2006.01)

CPC (source: EP KR)
C11D 1/29 (2013.01 - EP); **C11D 1/83** (2013.01 - EP); **C11D 3/00** (2013.01 - KR); **C11D 3/1266** (2013.01 - EP); **C11D 3/128** (2013.01 - EP); **C11D 3/3765** (2013.01 - EP); **C11D 3/38663** (2013.01 - EP); **D06M 10/00** (2013.01 - KR); **C11D 1/72** (2013.01 - EP); **C11D 1/722** (2013.01 - EP)

Citation (search report)
• [Y] EP 0451924 A2 19911016 - COLGATE PALMOLIVE CO [US] & US 5221495 A 19930622 - CAO HOAI-CHAU [BE]
• [Y] EP 0459077 A1 19911204 - LION CORP [JP]
• [Y] GB 2178055 A 19870204 - COLGATE PALMOLIVE CO & US 4842769 A 19890627 - SHULMAN JAN E [US], et al
• [Y] GB 2168717 A 19860625 - COLGATE PALMOLIVE CO
• [A] GB 2053880 A 19810211 - MONTEDISON SPA
• [A] EP 0012346 A1 19800625 - BAYER AG [DE]
• [A] FR 2606028 A1 19880506 - COLGATE PALMOLIVE CO [US]
• [A] FR 2537595 A1 19840615 - COLGATE PALMOLIVE CO [US]
• [A] US 4537706 A 19850827 - SEVERSON JR ROLAND G [US]

Cited by
EP2727990A3; EP1141209A4; CN104364362A; EP0859824A4; US5962398A; GB2297977A; EP0802969A4; EP0880578A4; EP0755999A1; EP0756001A1; US9688945B2; US9725679B2; US9150819B2; WO2010020476A3; WO9610625A1; WO9600276A1; US8232239B2; US8367601B2; WO2013160023A1; WO2022233369A1; US6440922B1; US10415003B2; US10947481B2; US11466233B2; US8673838B2; US9388366B2; US9969957B2; US10415004B2

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

DOCDB simple family (publication)
EP 0580245 A2 19940126; **EP 0580245 A3 19960515**; AU 4171493 A 19940127; AU 669900 B2 19960627; BR 9302915 A 19940216; CA 2100827 A1 19940121; KR 940005791 A 19940322; MY 121191 A 20060128; NZ 248093 A 19960528; TR 28471 A 19960724; TW 338773 B 19980821

DOCDB simple family (application)
EP 93202130 A 19930720; AU 4171493 A 19930701; BR 9302915 A 19930719; CA 2100827 A 19930719; KR 930013865 A 19930719; MY PI9301359 A 19930713; NZ 24809393 A 19930706; TR 61093 A 19930720; TW 82105597 A 19930714