

Title (en)  
DETERGENT ADDITIVES AND DETERGENT COMPOSITIONS CONTAINING THEM

Publication  
**EP 0070190 B1 19851204 (EN)**

Application  
**EP 82303674 A 19820713**

Priority  
GB 8121837 A 19810715

Abstract (en)  
[origin: EP0070192A1] A ternary builder system for detergent compositions comprises 25 to 97% by weight of an aluminosilicate cation-exchange material such as Zeolite A and 3 to 75% by weight, in total, of (i) a soap containing at least 60% by weight of saturated material, and (ii) nitrilotriacetic acid or a water-soluble salt thereof, at a (i):(ii) ratio of 10:1 to 1:10, the proportion of soap in the ternary mix being at least 12%. The builder mix is advantageously used in detergent compositions containing less than 10% inorganic phosphate, and gives good results in zero-phosphate compositions.

IPC 1-7  
**C11D 3/12**

IPC 8 full level  
**C11D 3/12** (2006.01); **C11D 3/20** (2006.01); **C11D 3/33** (2006.01); **C11D 3/34** (2006.01)

CPC (source: EP)  
**C11D 3/128** (2013.01); **C11D 3/2075** (2013.01); **C11D 3/33** (2013.01)

Cited by  
US5508258A

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

DOCDB simple family (publication)  
**EP 0070192 A1 19830119; EP 0070192 B1 19850911; EP 0070192 B2 19900117**; AT E15499 T1 19850915; AT E16818 T1 19851215; AU 554225 B2 19860814; AU 8598482 A 19830120; AU 8598582 A 19830120; BR 8204091 A 19830705; BR 8204092 A 19830705; CA 1191068 A 19850730; CA 1197156 A 19851126; DE 3266194 D1 19851017; DE 3267784 D1 19860116; DK 314782 A 19830116; DK 314982 A 19830116; EP 0070190 A1 19830119; EP 0070190 B1 19851204; JP H045720 B2 19920203; JP S5823896 A 19830212; JP S5823897 A 19830212; JP S6116315 B2 19860430; NO 822433 L 19830117; NO 822434 L 19830117; NZ 201212 A 19850816; NZ 201213 A 19850731; ZA 825005 B 19840229; ZA 825006 B 19840229

DOCDB simple family (application)  
**EP 82303676 A 19820713**; AT 82303674 T 19820713; AT 82303676 T 19820713; AU 8598482 A 19820713; AU 8598582 A 19820713; BR 8204091 A 19820714; BR 8204092 A 19820714; CA 407291 A 19820714; CA 407293 A 19820714; DE 3266194 T 19820713; DE 3267784 T 19820713; DK 314782 A 19820714; DK 314982 A 19820714; EP 82303674 A 19820713; JP 12374982 A 19820715; JP 12375082 A 19820715; NO 822433 A 19820714; NO 822434 A 19820714; NZ 20121282 A 19820709; NZ 20121382 A 19820709; ZA 825005 A 19820714; ZA 825006 A 19820714