

Title (en)

Detergent additives and detergent compositions containing them.

Title (de)

Detergengzusätze und diese enthaltende Detergengzusammensetzungen.

Title (fr)

Additifs de détergents et compositions détergentes les contenant.

Publication

EP 0070192 A1 19830119 (EN)

Application

EP 82303676 A 19820713

Priority

GB 8121837 A 19810715

Abstract (en)

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

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CPC (source: EP)

C11D 3/128 (2013.01); **C11D 3/2075** (2013.01); **C11D 3/33** (2013.01)

Citation (search report)

- [X] DE 2857154 A1 19800124 - PROCTER & GAMBLE EUROP
- [XPD] EP 0038591 A1 19811028 - PROCTER & GAMBLE [US]
- [AD] GB 1498492 A 19780118 - HENKEL & CIE GMBH
- [A] DE 2545190 A1 19760415 - HENKEL & CIE GMBH

Cited by

EP1797926A4; JPH04227700A; US7691283B2; WO2008021971A1; WO9207060A1

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