

Title (en)

Low pH granular laundry detergent compositions containing aluminosilicate citric acid and carbonate builders.

Title (de)

Niedrig-pH-Waschmittelgranulate enthaltend Aluminiumsilikat, Zitronensäure und Carbonatbuilder.

Title (fr)

Compositions détergentes granulaires pour le linge ayant un pH bas et contenant des renforceurs d'aluminosilicate, d'acide citrique et de carbonate.

Publication

EP 0456315 A2 19911113 (EN)

Application

EP 91201057 A 19910503

Priority

US 52057190 A 19900508

Abstract (en)

Low pH, dense granular laundry detergent compositions contain a specific aluminosilicate, citric acid and carbonate builder system, and little or no phosphate. The compositions provide good cleaning and have good physical properties.

IPC 1-7

C11D 3/10; **C11D 3/12**; **C11D 3/20**

IPC 8 full level

C11D 1/37 (2006.01); **C11D 3/10** (2006.01); **C11D 3/12** (2006.01); **C11D 3/20** (2006.01); **C11D 3/60** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)

C11D 3/10 (2013.01); **C11D 3/128** (2013.01); **C11D 3/2086** (2013.01)

Cited by

EP0863199A3; EP1416039A1; US5583098A; GB2271998A; US5338476A; EP1416040A1; US5723428A; US6114297A; EP0889117A4; US5300250A; TR26724A; US6936577B2; WO2015096095A1; WO9314182A1; WO9218596A1; US7026278B2; EP1272602B2

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EP 0456315 A2 19911113; **EP 0456315 A3 19920205**; **EP 0456315 B1 19960821**; AR 244332 A1 19931029; AT E141639 T1 19960915; AU 7856791 A 19911127; CA 2081324 A1 19911109; CN 1057292 A 19911225; DE 69121460 D1 19960926; ES 2090229 T3 19961016; JP H05507744 A 19931104; MX 172329 B 19931213; TW 200525 B 19930221; WO 9117232 A1 19911114

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