

Title (en)
NON-PHOSPHORUS DETERGENT BLEACH COMPOSITIONS

Publication
EP 0313143 A3 19891018 (EN)

Application
EP 88202243 A 19881007

Priority
GB 8724899 A 19871023

Abstract (en)
[origin: EP0313143A2] Non-phosphorus aluminosilicate built detergent bleach compositions having really effective cleaning and stain-removal performances at low wash temperatures of 40 DEG C and below comprise at least one detergent-active material selected from anionic, nonionic, amphoteric, zwitterionic detergent compounds and soaps and mixtures thereof and (a) from about 15% to about 40% by weight of a water-insoluble aluminosilicate cation-exchange material; (b) from about 1% to about 15% by weight of citric acid or an alkali metal citrate; and (c) from about 1% to about 15% by weight of a solid organic peroxyacid. o

IPC 1-7
C11D 3/395; **C11D 3/12**; **C11D 3/20**

IPC 8 full level
C11D 3/395 (2006.01); **C11D 3/12** (2006.01); **C11D 3/20** (2006.01); **C11D 3/39** (2006.01); **C11D 3/60** (2006.01)

CPC (source: EP KR)
C11D 3/08 (2013.01 - KR); **C11D 3/128** (2013.01 - EP); **C11D 3/2086** (2013.01 - EP); **C11D 3/3945** (2013.01 - EP); **C11D 3/395** (2013.01 - KR)

Citation (search report)
• [X] DE 2430144 A1 19750424 - HENKEL & CIE GMBH
• [A] DE 3121242 A1 19830105 - DEGUSSA [DE]
• [A] EP 0070067 A1 19830119 - PROCTER & GAMBLE [US]

Cited by
US5723428A; US5583098A; EP0816481A3; GB2292564A; EP0843716A4; EP0456315A3; EP0569066A1; US6262013B1

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DOCDB simple family (application)
EP 88202243 A 19881007; AU 2400888 A 19881019; BR 8805449 A 19881021; GB 8724899 A 19871023; JP 26591188 A 19881021; KR 880013798 A 19881022; NO 884699 A 19881021; TR 75488 A 19881020