

Title (en)  
Non-phosphorus detergent bleach compositions.

Title (de)  
Phosphatfreie Reinigungs- und Bleichmittel.

Title (fr)  
Compositions détergentes et de blanchiment sans phosphates.

Publication  
**EP 0313143 A2 19890426 (EN)**

Application  
**EP 88202243 A 19881007**

Priority  
GB 8724899 A 19871023

Abstract (en)  
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 3/12**; **C11D 3/20**; **C11D 3/395**

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

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

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

DOCDB simple family (publication)  
**EP 0313143 A2 19890426**; **EP 0313143 A3 19891018**; AU 2400888 A 19890427; AU 607268 B2 19910228; BR 8805449 A 19890627; GB 8724899 D0 19871125; JP H01146996 A 19890608; KR 890006802 A 19890616; KR 920001656 B1 19920221; NO 884699 D0 19881021; NO 884699 L 19890424; TR 23816 A 19900913

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