

Title (en)

Granular non-phosphorus detergent bleach compositions.

Title (de)

Phosphatfreie, granuliertete Reinigungs- und Bleichmittelzusammensetzungen.

Title (fr)

Compositions granuleuses détergentes et de blanchiment ne contenant pas de phosphore.

Publication

EP 0241962 A2 19871021 (EN)

Application

EP 87200469 A 19870312

Priority

GB 8607387 A 19860325

Abstract (en)

Granular detergent bleach compositions substantially free of phosphorus-containing material comprising as builder 1) a carbonate/calcite mixture, 2) an aluminosilicate cation exchange material, 3) a nitrilotriacetic acid compound or a mixture of 2) and 3); a peroxygen bleaching agent and a granular non-phosphorus bleach activator composition comprising: (a) 50-90% by weight of a bleach activator; (b) 5-45% by weight of an inert non-alkaline, non-phosphate water-soluble salt; and (c) 1-15% by weight of a water-soluble, low- to non-carboxylate containing film-forming polymeric material of average molecular weight of from 500-1,000,000. The granular non-phosphorus bleach activator composition has the advantage that it does not cause poisoning of calcite.

IPC 1-7

C11D 3/39; **C11D 3/10**; **C11D 3/12**; **C11D 3/37**

IPC 8 full level

C11D 3/12 (2006.01); **C11D 3/37** (2006.01); **C11D 3/39** (2006.01); **C11D 7/12** (2006.01); **C11D 7/22** (2006.01); **C11D 7/54** (2006.01); **C11D 7/60** (2006.01)

CPC (source: EP)

C11D 3/10 (2013.01); **C11D 3/1233** (2013.01); **C11D 3/128** (2013.01); **C11D 3/33** (2013.01); **C11D 3/3753** (2013.01); **C11D 3/3907** (2013.01)

Cited by

EP0468824A3; US5998645A; US5969171A; US5112514A; EP2154233A1; EA017243B1; CN108884426A; EP3423560A4; EP0694607A3; US5269962A; EP0507475A3; US5002691A; US6214785B1; WO2010018043A1; WO9840457A1; US6365562B1; US6545147B1; EP0790244A1; US10465149B2; US11118145B2

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0241962 A2 19871021; **EP 0241962 A3 19880622**; **EP 0241962 B1 19900516**; AU 586326 B2 19890706; AU 7050687 A 19871001; CA 1288311 C 19910903; DE 3762753 D1 19900621; ES 2016615 B3 19901116; GB 8607387 D0 19860430; JP H0645799 B2 19940615; JP S62240394 A 19871021; TR 24351 A 19910916; ZA 872198 B 19881130

DOCDB simple family (application)

EP 87200469 A 19870312; AU 7050687 A 19870320; CA 532483 A 19870319; DE 3762753 T 19870312; ES 87200469 T 19870312; GB 8607387 A 19860325; JP 7131487 A 19870325; TR 20187 A 19870325; ZA 872198 A 19870325