

Title (en)

AQUEOUS THIXOTROPIC CLEANING COMPOSITION

Publication

EP 0407187 A3 19910717 (EN)

Application

EP 90307343 A 19900705

Priority

- US 37646889 A 19890707
- US 47470890 A 19900129

Abstract (en)

[origin: EP0407187A2] Aqueous liquid cleaning compositions incorporate as thickeners a combination of clays of particle size 0.001 to 1 micron and polymeric thickener agents. This combination imparts not only beneficial viscosity to the compositions, but also improves phase stability and reduces loss of chlorine bleach in the aqueous environment. Moreover, the non-phosphate cleaning compositions of the invention have surprisingly effective cleaning performance.

IPC 1-7

C11D 3/12; C11D 3/37; C11D 3/08; C11D 3/395

IPC 8 full level

C11D 7/60 (2006.01); **C09K 3/00** (2006.01); **C11D 3/08** (2006.01); **C11D 3/12** (2006.01); **C11D 3/37** (2006.01); **C11D 3/395** (2006.01);
C11D 17/00 (2006.01)

CPC (source: EP)

C11D 3/08 (2013.01); **C11D 3/1266** (2013.01); **C11D 3/3765** (2013.01); **C11D 3/3956** (2013.01); **C11D 17/003** (2013.01)

Citation (search report)

- [X] EP 0075813 A2 19830406 - HENKEL KGAA [DE]
- [X] US 4116851 A 19780926 - RUPE LEWIS ALLEN, et al
- [X] GB 2140450 A 19841128 - COLGATE PALMOLIVE CO
- [X] FR 2568888 A1 19860214 - COLGATE PALMOLIVE CO [US]
- [X] EP 0264975 A1 19880427 - PROCTER & GAMBLE [US]
- [XP] EP 0329419 A2 19890823 - UNILEVER PLC [GB], et al

Cited by

US6268325B1; EP0517310A1; AU2007287280B2; EP1162255A3; DE19854960A1; GR1001212B; EP2045315A1; EP0519603A1;
DE19700799A1; DE19700799C2; US6699831B2; US7838477B2; WO0183662A1; WO2008023295A3; WO9711147A1; WO0132820A1;
WO2009040728A1; WO2007079880A1; WO0127236A1; WO0011128A1; WO9322412A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0407187 A2 19910109; EP 0407187 A3 19910717; AU 5874490 A 19910110; AU 637383 B2 19930527; CA 2020647 A1 19910108;
JP H0374498 A 19910329

DOCDB simple family (application)

EP 90307343 A 19900705; AU 5874490 A 19900706; CA 2020647 A 19900706; JP 17939590 A 19900706