

Title (en)

Phosphate-free, gel-like automatic dishwasher detergent compositions.

Title (de)

Phosphatfreies, gelähnliches Maschinengeschirrspülmittel.

Title (fr)

Composition détergente exempte de phosphate, sous forme de gel pour le lavage de la vaisselle en machine.

Publication

EP 0519603 A1 19921223 (EN)

Application

EP 92304513 A 19920519

Priority

- US 70247491 A 19910520
- US 78293791 A 19911025

Abstract (en)

Phosphate-free gel-like dishwasher detergent compositions comprising at least one low molecular weight polyacrylate, at least one polymeric thickener, a chlorine bleach compound in an amount to provide 0.2 - 4% available chlorine and water, which is bound to at least one of the other ingredients in the composition. The composition may also contain one or more builder salts, alkali-metal silicate, alkali metal hydroxide, organic detergent, foam depressant and a long chain fatty acid.

IPC 1-7

C11D 3/37; **C11D 3/395**

IPC 8 full level

C11D 3/37 (2006.01); **C11D 3/395** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

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

Citation (search report)

- [X] EP 0407187 A2 19910109 - UNILEVER PLC [GB], et al
- [A] EP 0373864 A2 19900620 - PROCTER & GAMBLE [US]
- [A] US 4878951 A 19891107 - POCHARD GUY [US], et al
- [A] FR 2620727 A1 19890324 - COLGATE PALMOLIVE CO [US]

Cited by

WO2009011676A1; US2012021068A1; US5591703A; US5597789A; AU2007356500B2; CN105555817A; RU2678838C2; US7951886B2; WO2010079487A3; WO9425557A1; WO201500969A3; US10647945B2; US10655088B2; US8093200B2; US8309509B2; US8697625B2; US10005986B2; US10577565B2; US11261406B2

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