

Title (en)

Nonaqueous liquid automatic dishwasher detergent composition.

Title (de)

Nichtwässrige flüssige Detergenzusammensetzung für Geschirrspülautomaten.

Title (fr)

Composition détergente à base liquide non-aqueuse pour lave vaisselle automatique.

Publication

EP 0460810 A1 19911211 (EN)

Application

EP 91304072 A 19910507

Priority

US 52033790 A 19900507

Abstract (en)

The application is directed to a nonaqueous liquid automatic dishwasher detergent composition with improved anti-filming and anti-spotting properties and to a method of using the detergent composition. The detergent composition comprises a nonaqueous organic carrier liquid, silica, alumina or titanium dioxide anti-filming agent, a water soluble polyacrylate anti-spotting agent, inorganic builder salts, bleach compound and detergent. The compositions provide reduced filming and spotting on dishware, glassware, china and the like, particularly in hard water. The nonaqueous liquid automatic dishwasher detergent compositions are stable in storage and are readily dispersible in water.

IPC 1-7

C11D 3/08; **C11D 3/12**; **C11D 3/16**; **C11D 3/395**; **C11D 17/00**

IPC 8 full level

C11D 3/08 (2006.01); **C11D 3/12** (2006.01); **C11D 3/16** (2006.01); **C11D 3/37** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 17/00** (2006.01)

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C11D 3/1213 (2013.01); **C11D 3/124** (2013.01); **C11D 3/3765** (2013.01); **C11D 3/3947** (2013.01); **C11D 17/0004** (2013.01)

Citation (search report)

- [A] DE 3833378 A1 19890503 - COLGATE PALMOLIVE CO [US]
- [A] EP 0314061 A2 19890503 - COLGATE PALMOLIVE CO [US]
- [A] EP 0315024 A2 19890510 - COLGATE PALMOLIVE CO [US]
- [A] EP 0314050 A2 19890503 - COLGATE PALMOLIVE CO [US]

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EP 0460810 A1 19911211; **EP 0460810 B1 19940323**; AT E103323 T1 19940415; AU 637902 B2 19930610; AU 7636491 A 19911107; BR 9101818 A 19911217; CA 2041902 A1 19911108; DE 69101467 D1 19940428; DE 69101467 T2 19940714; IE 911544 A1 19911120; MX 172418 B 19931215; NO 911762 D0 19910506; NO 911762 L 19911108; NZ 238047 A 19931223; PL 290147 A1 19920113; PT 97573 A 19920131

DOCDB simple family (application)

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