

Title (en)

Thixotropic aqueous liquid automatic dishwashing detergent composition.

Title (de)

Thixotropes, wässriges Reinigungsmittel für Geschirrspülmaschinen.

Title (fr)

Composition détergente liquide aqueuse thixotropique pour le lavage automatique de la vaisselle.

Publication

**EP 0315024 A2 19890510 (EN)**

Application

**EP 88117719 A 19881025**

Priority

US 11718487 A 19871105

Abstract (en)

Thixotropic aqueous liquid automatic dishwashing detergent composition with improved anti-filming and anti-spotting properties and method of using the detergent composition. The detergent composition comprises alumina or titanium dioxide anti-filming agent, polyacrylate polymer anti-spotting agent, inorganic builder salts, chlorine bleach, bleach-stable detergent and a thixotropic thickener. The compositions provide reduced filming and spotting on dishware, glassware, china and the like, particularly in hard water, and remain stable against phase separation.

IPC 1-7

**C11D 3/12**; **C11D 3/37**; **C11D 17/00**

IPC 8 full level

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CPC (source: EP)

**C11D 3/1213** (2013.01); **C11D 3/3765** (2013.01); **C11D 17/003** (2013.01)

Cited by

EP0460810A1; EP0398021A3; GR900100382A; EP0491553A3; US5094771A; EP0574236A3; EP0430818A3; EP0541202A1; GR1001250B; TR26040A

Designated contracting state (EPC)

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**EP 0315024 A2 19890510**; **EP 0315024 A3 19910320**; AU 2461888 A 19890511; AU 620050 B2 19920213; BR 8805765 A 19890725; CA 1326803 C 19940208; DK 618988 A 19890506; DK 618988 D0 19881104; FI 885113 A0 19881104; FI 885113 A 19890506; IL 88166 A0 19890630; IL 88166 A 19920621; JP H01230699 A 19890914; NO 173612 B 19930927; NO 173612 C 19940105; NO 884944 D0 19881104; NO 884944 L 19890508; NZ 226709 A 19901026; PT 88929 A 19881201; PT 88929 B 19930129; ZA 888078 B 19900627

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**EP 88117719 A 19881025**; AU 2461888 A 19881102; BR 8805765 A 19881104; CA 582266 A 19881104; DK 618988 A 19881104; FI 885113 A 19881104; IL 8816688 A 19881026; JP 27921788 A 19881104; NO 884944 A 19881104; NZ 22670988 A 19881025; PT 8892988 A 19881103; ZA 888078 A 19881027