

Title (en)

Automatic dishwashing detergent powder.

Title (de)

Pulverförmiges Reinigungsmittel zum automatischen Reinigen von Geschirr.

Title (fr)

Détergent sous forme de poudre pour le lavage automatique de la vaisselle.

Publication

EP 0330060 A2 19890830 (EN)

Application

EP 89102553 A 19890215

Priority

US 16022588 A 19880225

Abstract (en)

A free flowing, stable, water-soluble, powdered automatic dishwashing detergent with superior solubility, handling and storage characteristics is provided. The compositions comprise an inorganic polyphosphate carrier onto which is absorbed a nonionic detergent. The "loaded" carrier is mixed with powdered silicate and the other usual adjuvants such as bleach, pigment, etc. High levels of detergent are possible without adversely affecting the aforementioned advantages and superior characteristics.

IPC 1-7

C11D 3/06; **C11D 3/08**

IPC 8 full level

C11D 11/02 (2006.01); **C11D 3/06** (2006.01); **C11D 3/08** (2006.01); **C11D 10/02** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

C11D 3/062 (2013.01); **C11D 3/08** (2013.01); **C11D 17/0034** (2013.01)

Cited by

FR2762312A1; US5614485A; US5616277A; TR26259A; WO0077160A1; WO9304153A1; WO9847994A1; WO9201035A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)

EP 0330060 A2 19890830; **EP 0330060 A3 19900328**; AR 243226 A1 19930730; AU 3005089 A 19890831; BR 8900843 A 19891017; CA 1326621 C 19940201; DK 90389 A 19890826; DK 90389 D0 19890224; IL 89309 A0 19890910; IL 89309 A 19930221; JP H01304200 A 19891207; MX 169823 B 19930727; NO 890802 D0 19890224; NO 890802 L 19890828; NZ 228002 A 19901127; PT 89765 A 19891004; ZA 891223 B 19901031

DOCDB simple family (application)

EP 89102553 A 19890215; AR 31328389 A 19890224; AU 3005089 A 19890217; BR 8900843 A 19890224; CA 591996 A 19890224; DK 90389 A 19890224; IL 8930989 A 19890216; JP 4636789 A 19890227; MX 1500589 A 19890221; NO 890802 A 19890224; NZ 22800289 A 19890215; PT 8976589 A 19890220; ZA 891223 A 19890216