

Title (en)

Mechanically applicable combined dish washing and rinsing agent and process for simultaneously cleaning and rinsing dishes in dishwashing machines.

Title (de)

Maschinell anwendbares kombiniertes Geschirreinigungs- und Klarspülmittel und Verfahren zum gleichzeitigen Reinigen und Klarspülen von Geschirr in Geschirrspülmaschinen.

Title (fr)

Agent combiné de lavage et de rinçage pour la vaisselle et procédé pour le lavage et le rinçage simultanés de la vaisselle dans des machines à laver la vaisselle.

Publication

EP 0014980 A1 19800903 (DE)

Application

EP 80100805 A 19800218

Priority

DE 2906891 A 19790222

Abstract (en)

1. A powder-form dish-washing preparation suitable for use in dish-washing machines and containing condensed phosphates, silicates, alkalis, nonionic surfactants, active chlorine donors and water-soluble organic polymers, characterised in that it contains a nonionic surfactant from 0.5 to 5% by weight and preferably from 0.8 to 2% by weight of an ethoxylated and subsequently propoxylated fatty alcohol and, as water-soluble organic polymers from 0.2 to 2.5% by weight and preferably from 0.8 to 1.2% by weight of polyethylene glycols having an average molecular weight of from 300,000 to 4,000,000 and preferably from 500,000 to 1,000,000 - based in each case on the total weight of the above-mentioned constituents, including any adhering water or water of hydration present.

Abstract (de)

Kombiniertes pulverförmiges Geschirreinigungs- und -klarspülmittel für den Einsatz in Geschirrspülmaschinen auf der Basis von kondensierten Phosphaten, Silikaten, Alkalien, chlorabspaltenden Verbindungen und bestimmten nichtionischen Tensiden, nämlich ethoxylierten und propoxylierten C12-C18-Fettalkoholen, und einem Zusatz an wasserlöslichen Polyethylenglycolen mit MG zwischen 300.000 und 4.000.000.

IPC 1-7

C11D 3/37

IPC 8 full level

C11D 1/722 (2006.01); **C11D 3/37** (2006.01); **C11D 3/395** (2006.01)

CPC (source: EP)

C11D 1/722 (2013.01); **C11D 3/3707** (2013.01); **C11D 3/3958** (2013.01)

Citation (search report)

- US 3825498 A 19740723 - ALTENSCHOPFER T, et al
- GB 1527706 A 19781011 - CHEMED CORP
- DE 2435479 A1 19760212 - HENKEL & CIE GMBH
- DE 2501529 A1 19760722 - HOECHST AG
- FR 2119979 A2 19720811 - HENKEL & CIE GMBH

Cited by

EP0120533A3; US4992263A; US5767056A; US5759978A; EP0225654A1; EP0182461A1; WO2007018317A1; EP2625257B1; EP2625257B2

Designated contracting state (EPC)

BE CH DE FR IT NL

DOCDB simple family (publication)

EP 0014980 A1 19800903; **EP 0014980 B1 19830216**; AT 376449 B 19841126; AT A96780 A 19840415; DE 2906891 A1 19800904; DE 3061952 D1 19830324

DOCDB simple family (application)

EP 80100805 A 19800218; AT 96780 A 19800221; DE 2906891 A 19790222; DE 3061952 T 19800218