

Title (en)  
Aqueous composition for the pretreatment of dishes.

Title (de)  
Wässriges Geschirrvorbehandlungsmittel.

Title (fr)  
Composition aqueuse pour le prétraitement de la vaisselle.

Publication  
**EP 0268064 A2 19880525 (DE)**

Application  
**EP 87114813 A 19871010**

Priority  
DE 3635535 A 19861018

Abstract (en)  
[origin: US4818427A] A pretreatment or steeping preparation for cleaning stubbornly soiled dishes in an automatic dishwashing machine comprising from about 0.5 to about 20% by weight of a low-foaming nonionic surfactant, from about 0.5 to about 25% by weight of a polyhydric alcohol and/or glycol ether, from about 0.5 to about 10% by weight of a hydrotropic compound, and from about 0.01 to about 6% by weight of a viscosity regulator, all weights based on the weight of said preparation, in an aqueous suspension or solution adjusted to a viscosity of at least 5 mPa.s. and to a pH of from about 2 to about 7. In the cleaning process, the preparation is applied to the soiled dishes, the dishes are placed in an automatic dishwashing machine, and after waiting about 30 minutes the dishwashing machine is started for the normal washing cycle.

Abstract (de)  
Die Vorbehandlungsmittel in Form einer wäßrigen Lösung oder Dispersion aus: 0,5-20Gew.-% nichtionische, schwachschäumende Tenside, 0,5 - 25 Gew.-% mehrwertige aliphatische Alkohole oder Glykolether als Feuchthaltemittel, z. B. Glycerin, 0,5 - 10 Gew.-% hydrophobe Verbindung als Lösungsvermittler, z. B. Cumolsulfonat, 0,01 - 6 Gew.-% Viskositätsregulatoren, z. B. wasserlösliche Polyethylenglykole (Viskositätseinstellung auf mindestens 5-20 mPas), mit pH = 2 - 7 entfernen selbsttätig Problemanschmutzungen. Dabei werden die angeschmutzten Stellen mit dem Mittel beschichtet, das Geschirr mit der beschichteten Fläche gegen den Wasserstrahl der Spülmaschine eingeordnet. Nach beliebiger Einwirkungszeit läßt man den üblichen Reinigungsprozeß ablaufen.

IPC 1-7  
**C11D 1/66**; **C11D 1/72**; **C11D 3/20**; **C11D 17/00**

IPC 8 full level  
**C11D 1/72** (2006.01); **C11D 3/20** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)  
**C11D 1/72** (2013.01 - EP US); **C11D 1/721** (2013.01 - EP US); **C11D 3/2065** (2013.01 - EP US); **C11D 3/2072** (2013.01 - EP US); **C11D 17/003** (2013.01 - EP US); **C11D 3/2044** (2013.01 - EP US)

Cited by  
EP1010421A1; US5575864A; US5837065A; JP2017537672A; WO2012073007A2; WO0029533A1; WO2016057623A1; EP3196281B1; EP3196281B2

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