

Title (en)
CLEANING AGENT WITH PROTECTION AGAINST GLASS CORROSION

Title (de)
REINIGUNGSMITTEL MIT SCHUTZ VOR GLASKORROSION

Title (fr)
AGENT DE NETTOYAGE À PROTECTION CONTRE LA CORROSION DU VERRE

Publication
EP 3599269 A1 20200129 (DE)

Application
EP 19186480 A 20190716

Priority
DE 102018212204 A 20180723

Abstract (en)
[origin: US2020024549A1] Cleaning agents, preferably dishwashing detergents, in particular the automatic dishwashing detergent, having at least one low-water, preferably substantially anhydrous gel-like phase which contains at least one water-soluble zinc salt, preferably zinc sulfate and/or zinc acetate, particularly preferably zinc acetate.

Abstract (de)
Die Erfindung betrifft Reinigungsmittel, bevorzugt Geschirrspülmittel, insbesondere das maschinelle Geschirrspülmittel, umfassend mindestens eine wasserarme, bevorzugt im wesentlichen wasserfreie gelförmige Phase, welche mindestens ein wasserlösliches Zinksalz, bevorzugt Zinksulfat und/oder Zinkacetat, besonders bevorzugt Zinkacetat, enthält.

IPC 8 full level
C11D 3/04 (2006.01); **C11D 3/00** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)
C11D 1/722 (2013.01 - US); **C11D 3/0073** (2013.01 - EP); **C11D 3/046** (2013.01 - EP); **C11D 3/2044** (2013.01 - US); **C11D 3/2065** (2013.01 - US); **C11D 3/2093** (2013.01 - US); **C11D 3/222** (2013.01 - US); **C11D 3/3753** (2013.01 - US); **C11D 3/43** (2013.01 - US); **C11D 17/003** (2013.01 - EP); **C11D 17/043** (2013.01 - US); **C11D 17/045** (2013.01 - US); **C11D 2111/18** (2024.01 - EP)

Citation (applicant)
• EP 1797166 A1 20070620 - PROCTER & GAMBLE [US]
• CHEMICAL ABSTRACTS, Columbus, Ohio, US; abstract no. 14808-60-7

Citation (search report)
• [XYI] EP 2230295 A1 20100922 - ECOLAB INC [US]
• [XYI] DE 102013226301 A1 20150618 - HENKEL AG & CO KGAA [DE]
• [XYI] US 8389458 B2 20130305 - TSUMORI TAKAHIRO [JP], et al
• [Y] US 2012108487 A1 20120503 - GRAHAM TROY R [US], et al
• [E] WO 2019201583 A1 20191024 - HENKEL AG & CO KGAA [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3599269 A1 20200129; **EP 3599269 B1 20231108**; DE 102018212204 A1 20200123; ES 2967395 T3 20240430; PL 3599269 T3 20240318; US 11193088 B2 20211207; US 2020024549 A1 20200123

DOCDB simple family (application)
EP 19186480 A 20190716; DE 102018212204 A 20180723; ES 19186480 T 20190716; PL 19186480 T 20190716; US 201916513669 A 20190716