

Title (en)
Hard surface cleaning composition.

Title (de)
Reinigungsmittel für harte Oberflächen.

Title (fr)
Produit de nettoyage pour surfaces dures.

Publication
EP 0379093 A1 19900725 (EN)

Application
EP 90100636 A 19900112

Priority
US 29986689 A 19890119

Abstract (en)
A liquid, aqueous highly alkaline cleaning composition for removing organic soils, including burnt-on grease, from kitchen hard surfaces which exhibits no or minimal corrosion effects on aluminum and stainless steel comprises from about 0.1 to 0.5 wt-% alkali metal metasilicate; about 1 to 10 wt-% of an alkanolamine selected from mono-, di and tri-ethanolamine; from about 1 to 5 wt-% of an organic anionic surfactant selected from an alkali metal alkylbenzene sulfonate, an alkali metal alkyltoluene sulfonate and an alkyl ether sulfate; from about 1 to 10 wt-% of an organic solvent selected from a monohydric aliphatic alcohol having from 1 to 4 carbon atoms, and a monoalkyl ether of an alkylene, dialkylene or trialkylene glycol where alkyl has from 1 to 4 carbon atoms and alkylene has from 2 to 3 carbon atoms; and the remainder to 100 wt-% water.

IPC 1-7
C11D 3/00; C11D 3/08; C11D 3/20; C11D 3/30; C11D 3/43; C11D 17/00

IPC 8 full level
C11D 10/02 (2006.01); **C11D 3/00** (2006.01); **C11D 3/08** (2006.01); **C11D 3/30** (2006.01); **C11D 3/43** (2006.01); **C11D 17/00** (2006.01); **C23G 1/14** (2006.01); **C23G 1/24** (2006.01)

CPC (source: EP)
C11D 1/22 (2013.01); **C11D 1/29** (2013.01); **C11D 3/0057** (2013.01); **C11D 3/08** (2013.01); **C11D 3/30** (2013.01); **C11D 3/43** (2013.01)

Citation (search report)
• [Y] EP 0008805 A1 19800319 - HENKEL KGAA [DE]
• [Y] GB 1297782 A 19721129
• [A] US 4167488 A 19790911 - MURTAUGH JUSTIN J
• [A] EP 0197193 A2 19861015 - PENNWALT CORP [US]
• [A] US 3935129 A 19760127 - JABALEE WALTER J

Cited by
US6380151B1; US5597793A; KR100447429B1; CN103582695A; FR2702775A1; US5447723A; EP0393772A3; WO2017097621A1; WO2015138578A1; WO9850518A1; WO9320176A1; WO20081609A3; WO2017215886A1; WO2017215845A1; US6503716B1; US6664220B2; WO9421776A1; WO9306814A1; WO9317087A1; WO2012160462A3; US9023782B2; US9994798B2; US11434451B2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI NL SE

DOCDB simple family (publication)
EP 0379093 A1 19900725; AU 4702289 A 19900726; CA 2007566 A1 19900719; IE 900140 L 19900719; JP H02289697 A 19901129

DOCDB simple family (application)
EP 90100636 A 19900112; AU 4702289 A 19891219; CA 2007566 A 19900115; IE 14090 A 19900112; JP 607490 A 19900112