

Title (en)
REMOVING STUBBORN MILDEW STAIN

Title (de)
VERFAHREN ZUM ENTFERNEN HARTNÄCKIGER SCHIMMELFLECKEN

Title (fr)
ELIMINATION DE COLORATION TENACE DE MOISSISURE

Publication
EP 1497404 A4 20050420 (EN)

Application
EP 03746071 A 20030328

Priority
• US 0309641 W 20030328
• US 36936602 P 20020401

Abstract (en)
[origin: CA2480893A1] An aqueous cleaning composition fluid foam containing an alkali metal hypochlorite has a particular combination of precursor solution relative viscosity, foam syneresis value, foam horizontal thickness half-life and foam vertical wall clingability, and compared to known hypochlorite-containing cleaning compositions, provides superior cleaning of stubborn mildew without scrubbing. The cleaning composition fluid foam is produced by vigorous agitation of an aqueous hypochlorite solution containing an alkaline builder and a surfactant in the presence of a gas, or by injection of a pressurized propellant into an aerosol dispenser containing such solution and then passing the solution/propellant mix through a mechanical break-up actuator in the valve assembly of the aerosol dispenser.

IPC 1-7
C11D 3/00; **C11D 7/18**; **C11D 7/54**; **C11D 9/42**; **C11D 3/02**; **C11D 3/395**; **C11D 11/00**; **C11D 17/00**; **C11D 1/75**; **C11D 1/04**; **C11D 1/22**

IPC 8 full level
C11D 1/04 (2006.01); **C11D 1/22** (2006.01); **C11D 1/75** (2006.01); **C11D 3/02** (2006.01); **C11D 3/395** (2006.01); **C11D 3/48** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)
C11D 1/04 (2013.01); **C11D 1/22** (2013.01); **C11D 1/75** (2013.01); **C11D 3/044** (2013.01); **C11D 3/3956** (2013.01); **C11D 3/48** (2013.01); **C11D 9/08** (2013.01); **C11D 9/42** (2013.01); **C11D 11/0094** (2013.01); **C11D 17/0043** (2013.01); **C11D 2111/42** (2024.01)

Citation (search report)
• [X] DE 19626906 C1 19980312 - HENKEL KGAA [DE]
• [X] EP 0095045 A1 19831130 - KAERCHER GMBH & CO ALFRED [DE]
• [X] EP 0606707 A1 19940720 - CLOROX CO [US]
• [X] EP 0595590 A2 19940504 - DIVERSEY CORP [CA]
• [X] US 6180583 B1 20010130 - CILLEY WILLIAM AJALON [US], et al
• [X] US 5916859 A 19990629 - CHOY CLEMENT K [US], et al
• [X] US 5804545 A 19980908 - HEMLING THOMAS C [US], et al
• [X] DE 19915839 A1 20001019 - COGNIS DEUTSCHLAND GMBH [DE]
• [X] US 5597793 A 19970128 - BESSE MICHAEL [US], et al
• [X] WO 9424259 A1 19941027 - UNILEVER PLC [GB], et al
• [X] GB 1367067 A 19740918 - WILKINSON SWORD LTD
• [X] US 5728665 A 19980317 - CHOY CLEMENT KIN-MAN [US], et al
• [X] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 03 3 April 2002 (2002-04-03)
• [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 06 28 June 1996 (1996-06-28)
• [X] DATABASE WPI Section Ch Week 198804, Derwent World Patents Index; Class A97, AN 1998-025265, XP002318480
• See references of WO 03085073A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL SE SK TR

DOCDB simple family (publication)
CA 2480893 A1 20031016; EP 1497404 A2 20050119; EP 1497404 A4 20050420

DOCDB simple family (application)
CA 2480893 A 20030328; EP 03746071 A 20030328