

Title (en)

NONAQUEOUS LIQUID AUTOMATIC DISHWASHER DETERGENT COMPOSITION CONTAINING A DUAL BLEACH SYSTEM

Publication

EP 0423014 A3 19910724 (EN)

Application

EP 90402794 A 19901008

Priority

US 41924289 A 19891010

Abstract (en)

[origin: EP0423014A2] The application is directed to a nonaqueous liquid automatic dishwasher detergent composition containing a dual bleach system. The composition contains a nonaqueous organic carrier liquid, a chlorine bleach source and a bromide compound. In the wash bath the chlorine source reacts with water to form hypochlorite and the bromide compound reacts with a portion of the hypochlorite to form hypobromite. The active ingredients of the dual bleach system are the hypochlorite and hypobromite which provide improved cleaning performance against both proteinaceous and starchy carbohydrate soils. The dish washing compositions comprise a nonaqueous organic carrier liquid, a surfactant, a chlorine bleach source and a bromide compound, are stable in storage and are readily dispersible in water.

IPC 1-7

C11D 17/00; **C11D 3/395**

IPC 8 full level

C11D 3/395 (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

C11D 3/3956 (2013.01); **C11D 17/0004** (2013.01)

Citation (search report)

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- [A] DATABASE WPIL/DERWENT accession no. 89-230391 (32), 1989, Derwent Publications Ltd., London, GB; & JP - A - 1164701 (CHIYODA KAGAKU KENK) 28.06.1989

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DOCDB simple family (application)

EP 90402794 A 19901008; AT 90402794 T 19901008; AU 6325590 A 19900926; CA 2027199 A 19901009; DE 69018190 T 19901008; NZ 23549190 A 19900927