

Title (en)  
LIQUID CLEANING COMPOSITION

Title (de)  
FLÜSSIGREINIGUNGSZUSAMMENSETZUNG

Title (fr)  
COMPOSITION DE NETTOYAGE LIQUIDE

Publication  
**EP 4050087 A1 20220831 (EN)**

Application  
**EP 21214393 A 20211214**

Priority  
EP 21159449 A 20210226

Abstract (en)  
The need for a liquid cleaning composition, and especially a liquid hand dishwashing detergent composition, which provides effective cleaning, good sudsing, and improved preservation at a pH of from 6.0 or greater is met when the composition is formulated with a dipyrithione and a surfactant system which comprises at least 40% by weight of the surfactant system of an anionic surfactant, with the anionic surfactant comprising at least 70% by weight of the anionic surfactant of alkyl sulphate anionic surfactant, and the surfactant system is free of fatty acid or salt thereof.

IPC 8 full level  
**C11D 1/29** (2006.01); **C11D 1/75** (2006.01); **C11D 1/83** (2006.01); **C11D 1/90** (2006.01); **C11D 1/94** (2006.01); **C11D 3/34** (2006.01); **C11D 3/382** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)  
**C11D 1/29** (2013.01); **C11D 1/75** (2013.01); **C11D 1/83** (2013.01); **C11D 1/90** (2013.01); **C11D 1/94** (2013.01); **C11D 3/3436** (2013.01); **C11D 3/349** (2013.01)

Citation (applicant)  
• GB 970955 A 19640923 - BAKER CHEM CO J T  
• WO 9217285 A1 19921015 - OLIN CORP [US]  
• US 3583999 A 19710608 - DAMICO RALPH A  
• WO 2014059417 A1 20140417 - ARCH CHEM INC [US]  
• WO 2011039088 A2 20110407 - AIR LIQUIDE [FR], et al  
• US 9923253 B2 20180320 - NAGAI HIROKI [JP], et al  
• WO 2007135645 A2 20071129 - PROCTER & GAMBLE [US], et al  
• UNGER, THOMAS A: "Pesticide Synthesis Handbook", 1996, NOYES PUBLICATIONS, article "Dipyrithione", pages: 853

Citation (search report)  
• [Y] US 2020407661 A1 20201231 - BRAECKMAN KARL GHISLAIN [BE], et al  
• [Y] US 2017051234 A1 20170223 - FOSTER TOBIAS [DE], et al  
• [Y] BE 616540 A 19621017 - BAKER CHEM CO J T  
• [Y] US 2015315524 A1 20151105 - HULSKOTTER FRANK [DE], et al  
• [Y] GB 2354771 A 20010404 - MCBRIDE ROBERT LTD [GB]

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 4050087 A1 20220831**

DOCDB simple family (application)  
**EP 21214393 A 20211214**