

Title (en)

Improved bleaching performance using tungstates and molybdates

Title (de)

Verwendung von Wolframaten und Molybdaten zur Verstärkung der Bleichwirkung

Title (fr)

Utilisation de tungstates et de molybdates pour améliorer les performances de blanchiment

Publication

EP 0845524 A3 19990310 (DE)

Application

EP 97120141 A 19971118

Priority

DE 19649078 A 19961127

Abstract (en)

[origin: EP0845524A2] Activators for (preferably inorganic) peroxy compounds in aqueous detergent solutions for hard surfaces, especially crockery, comprise alkali or ammonium tungstate and/or molybdate compounds. Also claimed are (i) the use of these compounds in detergent solutions for cleaning hard surfaces, especially crockery, for bleaching coloured stains, (ii) a cleaning method for hard surfaces, especially crockery, using these aqueous detergent solutions which may also contain other cleaning agents, (iii) detergents for cleaning hard surfaces, containing combinations of these compounds with polycarboxylates and/or enzymes and (iv) the same detergents for cleaning crockery, especially for use in dishwashers.

IPC 1-7

C11D 3/39; C11D 3/04; C11D 7/54; C11D 7/04

IPC 8 full level

C11D 3/39 (2006.01)

CPC (source: EP)

C11D 3/3932 (2013.01)

Citation (search report)

- [E] WO 9820101 A2 19980514 - JOHNSON & SON INC S C [US]
- [A] US 4729835 A 19880308 - MCNEILLIE ALASTAIR [GB], et al
- [DX] DATABASE WPI Section Ch Week 9412, Derwent World Patents Index; Class D25, AN 94-094978, XP002086585
- [A] DATABASE WPI Section Ch Week 9310, Derwent World Patents Index; Class A97, AN 93-080661, XP002065292

Cited by

US7018967B2; WO2004081159A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19649078 A1 19980528; EP 0845524 A2 19980603; EP 0845524 A3 19990310

DOCDB simple family (application)

DE 19649078 A 19961127; EP 97120141 A 19971118