

Title (en)  
Dishwashing compositions for dishwasher

Title (de)  
Maschinengeschirrspülmittel

Title (fr)  
Composition pour le lavage en machine à laver la vaisselle

Publication  
**EP 0414197 B1 19971210 (DE)**

Application  
**EP 90115943 A 19900820**

Priority  
• DE 3927714 A 19890822  
• DE 3939494 A 19891129

Abstract (en)  
[origin: EP0414197A2] The invention relates to a mildly alkaline dishwashing composition which a) contains at least 25% by weight of a combination of sodium carbonate and sodium bicarbonate; b) is free of metasilicates; c) is free of chlorine bleaches and d) has a mildly alkaline pH of less than 10.5 in 1% strength aqueous solution. n

IPC 1-7  
**C11D 3/10**; **C11D 3/06**; **C11D 3/39**; **C11D 3/386**; **C11D 3/08**; **C11D 3/20**; **C11D 3/37**; **C11D 1/66**

IPC 8 full level  
**C11D 1/66** (2006.01); **C11D 3/06** (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 3/20** (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01); **C11D 3/39** (2006.01); **C11D 7/12** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)  
**C11D 3/06** (2013.01); **C11D 3/08** (2013.01); **C11D 3/10** (2013.01); **C11D 3/386** (2013.01); **C11D 3/3942** (2013.01)

Citation (examination)  
• JP H01146998 A 19890608 - MATSUSHITA ELECTRIC IND CO LTD  
• Nr. 169704s, Columbus, Ohio, US; & SU - A - 1346668 (V.A. BANOVA et al.) 23.10. 1987

Cited by  
EP2117993A4; US5786314A; US5786315A; EP0815192A4; EP0504091A1; US5597789A; CN113874485A; WO9407981A1; EP2428572A2; US9040278B2; US8507243B2; US9040279B2; WO9318129A1; WO9512653A1; WO2011049945A2; EP0662117B1

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

DOCDB simple family (publication)  
**EP 0414197 A2 19910227**; **EP 0414197 A3 19920304**; **EP 0414197 B1 19971210**; AT E161036 T1 19971215; AU 6113190 A 19910228; CA 2023529 A1 19910223; DE 59010780 D1 19980122; DK 0414197 T3 19980202; ES 2112247 T3 19980401; FI 904155 A0 19900822; JP H03163199 A 19910715; NO 903682 D0 19900821; NO 903682 L 19910225; PL 286561 A1 19910520; PT 95049 A 19910418

DOCDB simple family (application)  
**EP 90115943 A 19900820**; AT 90115943 T 19900820; AU 6113190 A 19900820; CA 2023529 A 19900817; DE 59010780 T 19900820; DK 90115943 T 19900820; ES 90115943 T 19900820; FI 904155 A 19900822; JP 21827090 A 19900821; NO 903682 A 19900821; PL 28656190 A 19900820; PT 9504990 A 19900821