

Title (en)

AUTOMATIC DISHWASHING COMPOSITIONS COMPRISING SPECIFIC POLYMERS

Title (de)

MASCHINELLE GESCHIRRSPÜLMITTEL MIT SPEZIELLEN POLYMEREN

Title (fr)

COMPOSTIONS DETERGENTES POUR LAVE-VAISSELLE CONPRENANT DES POLYM RES SPECIAUX

Publication

EP 1664256 B1 20091104 (DE)

Application

EP 04764838 A 20040904

Priority

- EP 2004009887 W 20040904
- DE 10342632 A 20030915

Abstract (en)

[origin: WO2005026304A1] The invention relates to dishwasher detergents comprising at least one polymer that is modified by phosphorous-containing groups, said polymer in a 1 % by weight solution in distilled water having a pH below 6 at 20 DEG C. The inventive dishwasher detergents have advantageous effects in machine dishwashing.

IPC 8 full level

C11D 3/37 (2006.01)

CPC (source: EP US)

C11D 3/3784 (2013.01 - EP US)

Citation (examination)

- EP 0077588 A1 19830427 - UNILEVER NV [NL], et al
- WO 9709408 A1 19970313 - HENKEL KGAA [DE], et al

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005026304 A1 20050324; AT E447603 T1 20091115; DE 10342632 A1 20050407; DE 502004010325 D1 20091217; EP 1664256 A1 20060607; EP 1664256 B1 20091104; ES 2334504 T3 20100311; PL 1664256 T3 20100430; US 2007054833 A1 20070308; US 7514395 B2 20090407

DOCDB simple family (application)

EP 2004009887 W 20040904; AT 04764838 T 20040904; DE 10342632 A 20030915; DE 502004010325 T 20040904; EP 04764838 A 20040904; ES 04764838 T 20040904; PL 04764838 T 20040904; US 37561606 A 20060314