

Title (en)  
DETERGENT COMPOSITION COMPRISING A POLYMERIC POLYCARBOXYLIC COMPOUND, A CHELANT, AND AN AMYLASE ENZYME

Title (de)  
WASCHMITTELZUSAMMENSETZUNG MIT EINER POLYMEREN POLYCARBOXYLVERBINDUNG, EINEM KOMPLEXBILDNER UND EINER AMYLASE

Title (fr)  
COMPOSITION DETERGENTE COMPORTANT UN COMPOSE POLYCARBOXYLIQUE POLYMERE, UN CHELATEUR ET UNE ENZYME AMYLASE

Publication  
**EP 0815192 A4 19990922 (EN)**

Application  
**EP 96906486 A 19960220**

Priority  
• GB 9504979 A 19950311  
• GB 9515573 A 19950728  
• US 9602118 W 19960220

Abstract (en)  
[origin: WO9628531A1] There is provided a non-phosphate builder-containing detergent composition formulated with a surfactant, a water-soluble organic polymeric polycarboxylic compound, a chelant, an amylase and a source of alkalinity, wherein (a) said water-soluble organic polymeric polycarboxylic compound is in amount less than 3 % by weight, (b) said chelant is in amount from 0.1 % to 10 % by weight, (c) said amylase is in amount from 0.001 % to 5 % by weight, and (d) said alkalinity source has the capacity to deliver alkalinity to a wash solution as measured by the alkalinity release test described herein, such that the % weight NaOH equivalent of the composition is greater than 8.0 % by weight of the composition. Also provided herein is a method for reducing fabric encrustation which comprises contacting the fabric with an effective amount of an aqueous solution of said detergent composition.

IPC 1-7  
**C11D 3/386**; **C11D 3/37**; **C11D 3/36**; **C11D 3/08**; **C11D 3/10**

IPC 8 full level  
**C11D 3/33** (2006.01); **C11D 3/36** (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01); **C11D 3/39** (2006.01)

CPC (source: EP)  
**C11D 3/33** (2013.01); **C11D 3/361** (2013.01); **C11D 3/3761** (2013.01); **C11D 3/38609** (2013.01); **C11D 3/3907** (2013.01); **C11D 3/3942** (2013.01)

Citation (search report)  
• [X] EP 0512371 A2 19921111 - DISPO KOMMERZ AG [CH]  
• [PX] WO 9517495 A1 19950629 - PROCTER & GAMBLE [US], et al  
• [A] EP 0504091 A1 19920916 - VIKING INDUSTRIES [AU]  
• [A] EP 0414197 A2 19910227 - BENCKISER GMBH JOH A [DE]  
• See also references of WO 9628531A1

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

DOCDB simple family (publication)  
**WO 9628531 A1 19960919**; AR 001204 A1 19970924; AU 4984996 A 19961002; BR 9607217 A 19980707; CA 2214266 A1 19960919; CA 2214266 C 20031230; CO 4700533 A1 19981229; CZ 283797 A3 19980218; EP 0815192 A1 19980107; EP 0815192 A4 19990922; HU P9802080 A2 19981228; HU P9802080 A3 19990301; MX 9706916 A 19971129; PE 60396 A1 19970109; TR 199700935 T1 19980221

DOCDB simple family (application)  
**US 9602118 W 19960220**; AR 33570796 A 19960311; AU 4984996 A 19960220; BR 9607217 A 19960220; CA 2214266 A 19960220; CO 96010543 A 19960305; CZ 283797 A 19960220; EP 96906486 A 19960220; HU P9802080 A 19960220; MX 9706916 A 19960220; PE 00016096 A 19960308; TR 9700935 T 19960220