

Title (en)  
Liquid detergent composition containing enzyme and enzyme stabilization system.

Title (de)  
Enzym und Enzymstabilisationssystem enthaltendes flüssiges Waschmittel.

Title (fr)  
Composition détergente contenant une enzyme et un système stabilisant l'enzyme.

Publication  
**EP 0378262 A2 19900718 (EN)**

Application  
**EP 90200028 A 19900105**

Priority  
GB 8900525 A 19890110

Abstract (en)  
Stabilization systems for high pH, aqueous liquid detergent compositions containing detergent enzyme and peroxygen bleaches are disclosed. The detergent compositions contain magnesium salts as an enzyme stabilizing system.

IPC 1-7  
**C11D 3/386**; **C11D 3/39**

IPC 8 full level  
**C11D 3/00** (2006.01); **C11D 3/386** (2006.01); **C11D 3/39** (2006.01); **C11D 10/02** (2006.01)

CPC (source: EP KR)  
**C11D 3/38663** (2013.01 - EP); **C11D 3/3947** (2013.01 - EP); **C11D 3/395** (2013.01 - KR)

Cited by  
US6153576A; US5904736A; EP3083925A4; AU686653B2; US5464552A; US5691295A; US5855625A; WO2004053042A1; WO9506101A1; US7569226B2; US7098179B2; US7888104B2; US7449187B2; US7262042B2; US7320887B2; EP0378261B1

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

DOCDB simple family (publication)  
**EP 0378262 A2 19900718**; **EP 0378262 A3 19910403**; **EP 0378262 B1 19931201**; AT E97949 T1 19931215; AU 4786790 A 19900719; AU 640358 B2 19930826; BR 9001411 A 19910409; CA 2007380 A1 19900710; CA 2007380 C 19970304; CN 1027081 C 19941221; CN 1044121 A 19900725; DE 69004809 D1 19940113; DE 69004809 T2 19940630; DK 0378262 T3 19940207; GB 8900525 D0 19890308; IE 63227 B1 19950405; IE 900096 L 19900710; IN 179094 B 19970823; JP 2749415 B2 19980513; JP H03197597 A 19910828; KR 900011887 A 19900802; KR 970003069 B1 19970314; MX 172150 B 19931206; MY 105187 A 19940830; NZ 232056 A 19920428; TR 25129 A 19921101

DOCDB simple family (application)  
**EP 90200028 A 19900105**; AT 90200028 T 19900105; AU 4786790 A 19900110; BR 9001411 A 19900328; CA 2007380 A 19900109; CN 90100769 A 19900110; DE 69004809 T 19900105; DK 90200028 T 19900105; GB 8900525 A 19890110; IE 9690 A 19900110; IN 11DE1990 A 19900104; JP 329790 A 19900110; KR 900000207 A 19900110; MX 1908490 A 19900110; MY PI19900030 A 19900109; NZ 23205690 A 19900109; TR 9690 A 19900109