

Title (en)

Stabilized enzymatic aqueous detergent compositions.

Title (de)

Stabilisierte enzymatische, wässrige Waschmittelzusammensetzungen.

Title (fr)

Compositions détergentes aqueuses enzymatiques stabilisées.

Publication

EP 0481542 A2 19920422 (EN)

Application

EP 91202460 A 19910923

Priority

US 59294290 A 19901004

Abstract (en)

The present invention provides a method for stabilizing enzymes in aqueous detergent compositions, which method comprises adding 3 to 50% by weight of a non-polymeric salt to said compositions to precipitate the enzymes into a separate phase and thereby protect the enzymes from other components left solubilized in the compositions. The invention further provides compositions having at least two phases provided in the process of the invention.

IPC 1-7

C11D 3/386; **C11D 17/00**

IPC 8 full level

C11D 3/386 (2006.01); **C11D 17/00** (2006.01); **C12N 9/56** (2006.01)

CPC (source: EP)

C11D 3/38663 (2013.01); **C11D 17/0026** (2013.01)

Cited by

WO0202727A1; WO2015078742A1; US10590368B2; US11827866B2; US6624132B1; US7553806B2; US7795199B2; US7951767B2; US8211849B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI NL SE

DOCDB simple family (publication)

EP 0481542 A2 19920422; **EP 0481542 A3 19920729**; AU 8551991 A 19920409; BR 9104258 A 19920602; CA 2052601 A1 19920405; JP H06346089 A 19941220; ZA 917956 B 19930405

DOCDB simple family (application)

EP 91202460 A 19910923; AU 8551991 A 19911002; BR 9104258 A 19911002; CA 2052601 A 19911001; JP 25810591 A 19911004; ZA 917956 A 19911004