

Title (en)
STABILIZED AQUEOUS ENZYME COMPOSITION

Publication
EP 0118933 B1 19880601 (EN)

Application
EP 84200157 A 19840206

Priority
US 46624383 A 19830214

Abstract (en)
[origin: EP0118933A1] alpha -Amylase derived from B. licheniformis is stabilized in aqueous liquid detergent compositions containing surfactants and sequestering agents by the inclusion of a calcium-containing component that provides at least about 1 x 10<-4.5> millimole of enzyme-accessible calcium per liter of composition.

IPC 1-7
C11D 3/386

IPC 8 full level
C12N 9/96 (2006.01); **C11D 3/386** (2006.01)

CPC (source: EP)
C11D 3/38663 (2013.01)

Cited by
US5605881A; RU2767187C2; US5269960A; US5223166A; EP0342499A3; US5234832A; EP0268227A3; JPS63135123A; EP0199404A3

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

DOCDB simple family (publication)
EP 0118933 A1 19840919; EP 0118933 B1 19880601; AT E34767 T1 19880615; AU 2453884 A 19840823; AU 575313 B2 19880728; CA 1213541 A 19861104; DE 3471687 D1 19880707; GR 81415 B 19841211; IE 57055 B1 19920408; IE 840321 L 19840814; JP S59206497 A 19841122; MX 161307 A 19900906

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EP 84200157 A 19840206; AT 84200157 T 19840206; AU 2453884 A 19840213; CA 447238 A 19840213; DE 3471687 T 19840206; GR 840173724 A 19840206; IE 32184 A 19840213; JP 2492084 A 19840213; MX 20032184 A 19840214