

Title (en)

ENZYME STABILIZING COMPOSITION AND STABILIZED ENZYME CONTAINING BUILT DETERGENT COMPOSITIONS

Publication

EP 0451924 A3 19920311 (EN)

Application

EP 91200871 A 19910412

Priority

US 50954990 A 19900413

Abstract (en)

[origin: EP0451924A2] A three component enzyme stabilization system including boric acid, citric acid and calcium ions helps maintain the enzyme activity of aqueous built detergent compositions in accelerated aging (multiple freeze-thaw cycles). The preferred detergent compositions are "softergents" and also include a clay softener, a mixture of anionic, nonionic and amphoteric surfactants, and detergent builder(s).

IPC 1-7

C11D 3/386

IPC 8 full level

C11D 3/386 (2006.01)

CPC (source: EP)

C11D 3/38663 (2013.01)

Citation (search report)

- [Y] GB 2178055 A 19870204 - COLGATE PALMOLIVE CO
- [Y] FR 2343805 A1 19771007 - PROCTER & GAMBLE EUROP [BE]
- [A] EP 0199405 A2 19861029 - PROCTER & GAMBLE [US]
- [A] FR 2606028 A1 19880506 - COLGATE PALMOLIVE CO [US]

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Designated contracting state (EPC)

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

DOCDB simple family (publication)

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