

Title (en)

Process for manufacture of a high active detergent composition containing succinic acid.

Title (de)

Verfahren zur Herstellung einer hochaktiven Detergenezusammensetzung, Bernsteinsäure enthaltend.

Title (fr)

Procédé de préparation d'une composition détergente à haute activité contenant de l'acide succinique.

Publication

**EP 0564719 A1 19931013**

Application

**EP 92201034 A 19920410**

Priority

EP 92201034 A 19920410

Abstract (en)

A process for making a concentrated liquid detergent composition comprising the steps of : i) mixing succinic anhydride, water and an alkaline catalyst, wherein the ratio of succinic anhydride to water is at least 4:1, ii) allowing an exothermic hydrolysis reaction to take place in a buffer tank ,and iii) mixing the resulting highly active, partly neutralised succinic acid with other detergent ingredients l

IPC 1-7

**C11D 1/08**

IPC 8 full level

**C11D 1/08** (2006.01); **C11D 11/04** (2006.01)

CPC (source: EP)

**C11D 1/08** (2013.01); **C11D 11/04** (2013.01)

Citation (search report)

- [Y] SU 130040 A1 19591130 - LEVI S V, et al
- [YD] EP 0028850 A1 19810520 - UNILEVER NV [NL]
- [AD] GB 2049723 A 19801231 - KAO CORP
- [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 4 (C-322)(2061) 9 January 1986 & JP-A-60 163 838 ( KAO SEKKEN KK ) 26 August 1985

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