

Title (en)

Non-aqueous liquid detergent containing bleach

Title (de)

Nichtwässrige Flüssigwaschmittel mit Bleiche

Title (fr)

Compositions détergents liquides, non aqueuses contenant un agent de blanchiment

Publication

EP 0972823 B1 20040922 (DE)

Application

EP 99113021 A 19990706

Priority

DE 19831702 A 19980715

Abstract (en)

[origin: EP0972823A1] Cationic stabilizers comprising quaternary ammonium cations are used to stabilize bleaching agents in nonaqueous liquid detergents. Cationic stabilizers comprising quaternary ammonium cations of formula (I)-(III) are used to stabilize bleaching agents in nonaqueous liquid detergents: R<1> = 1-6C alkyl, 2-6C alkenyl or 1-6C hydroxyalkyl; R<2> = 8-28C alkyl or alkenyl; R<3> = R<1> or (CH₂)_nTR<2>; R<4> = R<1>, R<2> or (CH₂)_nTR<2>; T = CH₂, OCO or COO; n = 0-5. An Independent claim is also included for a nonaqueous liquid detergent composition comprising nonionic surfactant(s), builder(s) and a bleaching agent and containing one or more compounds (I)-(III) as stabilizers.

IPC 1-7

C11D 17/00; **C11D 3/30**; **C11D 3/395**; **C11D 1/66**

IPC 8 full level

C11D 1/62 (2006.01); **C11D 1/66** (2006.01); **C11D 3/30** (2006.01); **C11D 3/39** (2006.01); **C11D 3/395** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP US)

C11D 1/62 (2013.01 - EP US); **C11D 3/3947** (2013.01 - EP US); **C11D 17/0004** (2013.01 - EP US)

Cited by

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EP 0972823 A1 20000119; **EP 0972823 B1 20040922**; AT E277164 T1 20041015; DE 19831702 A1 20000120; DE 59910563 D1 20041028; US 6372703 B1 20020416

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