

Title (en)

AQUEOUS MULTI-PHASE CLEANING AGENT

Title (de)

WÄSSRIGES MEHRPHASIGES REINIGUNGSMITTEL

Title (fr)

PRODUIT DE NETTOYAGE AQUEUX MULTIPHASE

Publication

EP 1141225 A1 20011010 (DE)

Application

EP 99964566 A 19991214

Priority

- DE 19859774 A 19981223
- EP 9909895 W 19991214

Abstract (en)

[origin: DE19859774A1] The invention relates to an aqueous liquid multi-phase surface-active cleaning agent with at least two continuous phases which contains at least one lower aqueous phase I and one non-aqueous liquid upper phase II which is immiscible with said aqueous phase and which can be temporarily converted to an emulsion by shaking and contains citric acid and/or at least one citrate. Said cleaning agent can be used to clean hard surfaces and it is prepared directly from its starting materials by mixing them, then thoroughly agitating the mixture and leaving it to stand so that the temporary emulsion dissolves. Citric acid and/or at least one citrate is used in an aqueous liquid multi-phase surface-active cleaning agent with at least two continuous phases which comprises at least one lower aqueous phase I and one upper aqueous phase II which is immiscible with said lower phase and which can be temporarily converted to an emulsion by shaking. The invention also relates to a method of producing such a cleaning agent.

IPC 1-7

C11D 17/00; **C11D 3/20**

IPC 8 full level

C11D 3/06 (2006.01); **C11D 3/20** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

C11D 3/06 (2013.01); **C11D 3/2086** (2013.01); **C11D 17/0017** (2013.01)

Citation (search report)

See references of WO 0039270A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19859774 A1 20000629; AR 021990 A1 20020904; AU 3038400 A 20000731; CA 2292967 A1 20000623; CO 5211009 A1 20021030; EP 1141225 A1 20011010; TN SN99250 A1 20011231; WO 0039270 A1 20000706

DOCDB simple family (application)

DE 19859774 A 19981223; AR P990106680 A 19991222; AU 3038400 A 19991214; CA 2292967 A 19991217; CO 99079591 A 19991220; EP 9909895 W 19991214; EP 99964566 A 19991214; TN SN99250 A 19991222