

Title (en)

METHOD FOR IMPROVING THE EFFICIENCY OF SURFACTANTS AND EMULSIFIERS BY MEANS OF ADDITIVES

Title (de)

VERFAHREN ZUR EFFIZIENZSTEIGERUNG VON TENSIDEN UND EMULGATOREN MITTELS ADDITIVEN

Title (fr)

PROCEDE POUR AUGMENTER L'EFFICACITE DE TENSIOACTIFS ET D'EMULSIFIANTS AU MOYEN D'ADDITIFS

Publication

**EP 1824956 A1 20070829 (DE)**

Application

**EP 05823407 A 20051201**

Priority

- DE 2005002165 W 20051201
- DE 102004058956 A 20041208

Abstract (en)

[origin: WO2006060993A1] The invention relates to a method for improving the efficiency of surfactants with the simultaneous suppression of lamellar mesophases, in particular in micro-emulsions and emulsions and to surfactants, which are mixed with an additive. According to the invention, to improve the efficiency of the surfactants, a block copolymer of type AB, ABA or BAB is added to latter, said polymer comprising a water-soluble block A and an oil-soluble block B, which is a polyalkylene oxide, whose monomer units contain at least 4 carbon atoms. Said block copolymers also prevent lamellar mesophases, stabilise the temperature of the one-phase ranges for oil, water or surfactant mixtures, enlarge the structural quantity and reduce the interfacial tension of said mixtures.

IPC 8 full level

**C09K 23/42** (2022.01); **C09K 23/52** (2022.01); **C11D 3/37** (2006.01)

CPC (source: EP US)

**C11D 3/3707** (2013.01 - EP US)

Citation (search report)

See references of WO 2006060993A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102004058956 A1 20060614**; CN 101072860 A 20071114; EP 1824956 A1 20070829; JP 2008522796 A 20080703; US 2009099304 A1 20090416; WO 2006060993 A1 20060615

DOCDB simple family (application)

**DE 102004058956 A 20041208**; CN 200580042269 A 20051201; DE 2005002165 W 20051201; EP 05823407 A 20051201; JP 2007544728 A 20051201; US 79238705 A 20051201