

Title (en)

W/O NANOEMULSION AND METHOD FOR PRODUCING SAME

Title (de)

WASSER-IN-ÖL-NANOEMULSION UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

NANOÉMULSION EAU/HUILE ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 2612898 A4 20140625 (EN)**

Application

**EP 11821839 A 20110831**

Priority

- JP 2011052706 A 20110310
- JP 2010193523 A 20100831
- JP 2011069698 W 20110831

Abstract (en)

[origin: EP2612898A1] The present invention provides a W/O nanoemulsion which remains stable even if stored for long periods of six months, for example. The W/O nanoemulsion of the present invention comprises: a) a water content of greater than 0 wt% but no greater than 30 wt%; b) an oil content of less than 100 wt% but no less than 70 wt%; c) 1 to 30 parts by weight of at least one nonionic surfactant for every 100 parts by weight of oil, the nonionic surfactant having an HLB value of 1 to 10; and d) 0.1 to 30 parts by weight of at least one selected from the group consisting of an anionic surfactant, a cationic surfactant, and an amphoteric surfactant, for every 100 parts by weight of water, wherein the average particle size of 50% of the water particles in the W/O nanoemulsion is 100 nm or less.

IPC 8 full level

**C10L 1/32** (2006.01)

CPC (source: EP KR US)

**C10L 1/32** (2013.01 - KR); **C10L 1/328** (2013.01 - EP US)

Citation (search report)

- [X] EP 1477550 A1 20041117 - INTEVEP SA [VE] & JP 2004339519 A 20041202 - INTEVEP SA
- [A] WO 2007112967 A1 20071011 - ENI SPA [IT], et al & JP 2009538221 A 20091105
- [A] EP 1430867 A1 20040623 - OREAL [FR]
- See references of WO 2012029824A1

Cited by

US11084004B2; US10316264B2; US11015126B2; WO2016074904A1; WO2022096310A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2612898 A1 20130710; EP 2612898 A4 20140625**; CN 103097500 A 20130508; JP 2012072349 A 20120412; KR 20140029350 A 20140310; US 2013219772 A1 20130829; WO 2012029824 A1 20120308

DOCDB simple family (application)

**EP 11821839 A 20110831**; CN 201180041591 A 20110831; JP 2011052706 A 20110310; JP 2011069698 W 20110831; KR 20137005774 A 20110831; US 201113819537 A 20110831