Title (en)

NANO SUSPENSION LUBRICANTS

Title (de)

NANO-SUSPENSIONSSCHMIERMITTEL

Title (fr)

LUBRIFIANTS À NANOSUSPENSION

Publication

**EP 3359630 A1 20180815 (EN)**

Application

**EP 16757364 A 20160630**

Priority

- IN 3793MU2015 A 20151006
- IN 2016050208 W 20160630

Abstract (en)

[origin: WO2017060918A1] A method for preparing a nano suspension lubricant comprises providing substantially spherical nano particles of size ranging from about less than 50 nanometers to about 100 nanometers. The method further comprises mixing the nano particles and a surfactant in about 1:1 ratio in a solvent to form a mixture. The solvent is evaporated from the mixture to obtain surface modified nano particles. The surface modified nano particles include the nano particles coated with the surfactant. The method comprises mixing the surface modified nano particles with a lubricating fluid to form the nano suspension lubricant, where the lubricating fluid comprises about 90% to 99% base oil and about 1% to 10% additives.

IPC 8 full level

**C10M 157/10** (2006.01); **C10M 171/06** (2006.01)

CPC (source: EP US)

**C10M 101/02** (2013.01 - US); **C10M 157/10** (2013.01 - EP US); **C10M 171/06** (2013.01 - EP US); **C10M 177/00** (2013.01 - US); C10M 2201/05 (2013.01 - EP US); C10M 2201/065 (2013.01 - EP US); C10M 2201/066 (2013.01 - EP US); C10M 2203/022 (2013.01 - EP US); C10M 2203/06 (2013.01 - EP US); C10M 2203/1006 (2013.01 - US); C10M 2207/126 (2013.01 - EP US); C10M 2207/289 (2013.01 - EP US); C10M 2215/04 (2013.01 - EP US); C10N 2020/06 (2013.01 - EP US); C10N 2020/061 (2020.05 - EP US); C10N 2030/06 (2013.01 - EP US); C10N 2030/10 (2013.01 - EP US); C10N 2030/12 (2013.01 - EP US); C10N 2030/54 (2020.05 - EP US); C10N 2040/25 (2013.01 - EP US); C10N 2070/00 (2013.01 - EP US)

Citation (search report)

See references of WO 2017060918A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2017060918 A1 20170413**; EP 3359630 A1 20180815; US 2018291305 A1 20181011

DOCDB simple family (application)

**IN 2016050208 W 20160630**; EP 16757364 A 20160630; US 201615766509 A 20160630