

Title (en)

LUBRICANT FOR WATER-REDUCED BELT LUBRICATION

Title (de)

SCHMIERMITTEL FÜR DIE WASSERREDUZIERTER BANDSCHMIERUNG

Title (fr)

LUBRIFIANT POUR LA LUBRIFICATION À TENUE RÉDUITE EN EAU DE BANDES TRANSPORTEUSES

Publication

EP 2344613 B1 20170104 (DE)

Application

EP 09764712 A 20091109

Priority

- EP 2009007994 W 20091109
- DE 102008056440 A 20081107

Abstract (en)

[origin: WO2010052018A1] The invention relates to a chain lubricant or belt lubricant, having a silicone oil, a multifunctional amine and at least one additive, selected from the group consisting of anionic, nonionic, cationic and/or amphoteric surfactants as an emulsion in an aqueous phase. This is an amine selected from amine salts in which the cation comprises primary, secondary, tertiary and/or quaternary amines and the anion as an organic group has a molecular weight greater than 350, preferably greater than 400. The invention also relates to a method for the water-reduced lubrication of conveyor belts for bottles, cans, other containers and boxes, wherein said chain lubricant or belt lubricant is applied to the surface of the conveyor belt at intervals as an emulsion in an aqueous phase together with added water of less than 30 vol%, preferably less than 20 vol%. The invention also relates to the use for water-reduced lubrication of conveyor belts made of metal or plastic for a very broad field of applications.

IPC 8 full level

C10M 173/02 (2006.01)

CPC (source: EP US)

C10M 173/025 (2013.01 - EP US); **C10M 2215/02** (2013.01 - EP US); **C10M 2229/04** (2013.01 - EP US); **C10N 2040/38** (2020.05 - EP US); **C10N 2050/011** (2020.05 - EP US)

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010052018 A1 20100514; BR PI0921344 A2 20151229; CL 2011001029 A1 20111007; DE 102008056440 A1 20100520; EC SP11011037 A 20110831; EP 2344613 A1 20110720; EP 2344613 B1 20170104; MX 2011004926 A 20110906; PL 2344613 T3 20170731; RU 2011119926 A 20121220; RU 2605750 C2 20161227; US 2011269653 A1 20111103

DOCDB simple family (application)

EP 2009007994 W 20091109; BR PI0921344 A 20091109; CL 2011001029 A 20110509; DE 102008056440 A 20081107; EC SP11011037 A 20110509; EP 09764712 A 20091109; MX 2011004926 A 20091109; PL 09764712 T 20091109; RU 2011119926 A 20091109; US 99860209 A 20091109