

Title (en)
USE OF CALCIUM COMPLEX LUBRICATING GREASES AND CALCIUM SULFONATE COMPLEX LUBRICATING GREASES FOR THE LUBRICATION OF WIRE ROPES

Title (de)
VERWENDUNG VON CALCIUM-KOMPLEX- UND CALCIUM-SULFONAT-KOMPLEX-SCHMIERFETTEN ZUR SCHMIERUNG VON DRAHTSEILEN

Title (fr)
UTILISATION DE GRAISSES LUBRIFIANTES AYANT UN COMPLEXE DE CALCIUM ET DE GRAISSES LUBRIFIANTES AYANT UN COMPLEXE DE SULFONATE DE CALCIUM, POUR LA LUBRIFICATION DE CÂBLES MÉTALLIQUES

Publication
EP 3559176 B1 20220608 (DE)

Application
EP 17842380 A 20171221

Priority
• DE 102016125289 A 20161221
• DE 2017101100 W 20171221

Abstract (en)
[origin: CA3047861A1] The invention relates to the use of calcium complex lubricating grease compositions and calcium sulfonate complex lubricating grease compositions as lubricants for wire ropes. The invention further relates to a method for producing the wire ropes and to wire ropes provided with the lubricating grease composition.

IPC 8 full level
C10M 169/02 (2006.01); **C10N 10/04** (2006.01); **C10N 30/00** (2006.01); **C10N 30/06** (2006.01); **C10N 30/10** (2006.01); **C10N 40/32** (2006.01)

CPC (source: EP KR RU US)
C10M 169/02 (2013.01 - EP KR RU US); **C10M 2201/02** (2013.01 - EP KR US); **C10M 2201/043** (2013.01 - US); **C10M 2201/0606** (2013.01 - US); **C10M 2201/062** (2013.01 - EP KR); **C10M 2201/085** (2013.01 - EP KR); **C10M 2201/087** (2013.01 - EP KR); **C10M 2205/16** (2013.01 - EP KR US); **C10M 2205/18** (2013.01 - EP KR); **C10M 2207/02** (2013.01 - EP KR); **C10M 2207/122** (2013.01 - EP KR); **C10M 2207/123** (2013.01 - EP KR); **C10M 2207/128** (2013.01 - EP KR); **C10M 2207/129** (2013.01 - EP KR); **C10M 2207/40** (2013.01 - EP KR); **C10M 2217/0456** (2013.01 - EP KR); **C10M 2219/044** (2013.01 - EP); **C10M 2219/0466** (2013.01 - EP KR); **C10N 2010/04** (2013.01 - EP KR); **C10N 2030/06** (2013.01 - EP KR); **C10N 2030/10** (2013.01 - EP KR); **C10N 2030/68** (2020.05 - EP KR); **C10N 2040/32** (2013.01 - EP KR US)

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)
DE 102016125289 A1 20180621; AU 2017383702 A1 20190711; AU 2017383702 B2 20211202; BR 112019012914 A2 20191231; CA 3047861 A1 20180628; CA 3047861 C 20240521; CN 110234745 A 20190913; CN 110234745 B 20221125; EP 3559176 A2 20191030; EP 3559176 B1 20220608; EP 3559176 B9 20220831; ES 2924488 T3 20221007; HU E059663 T2 20221228; JP 2020514452 A 20200521; JP 7007383 B2 20220210; KR 102498915 B1 20230213; KR 20190100272 A 20190828; MX 2019007388 A 20190816; PL 3559176 T3 20221205; PT 3559176 T 20220817; RU 2019121627 A 20210122; RU 2019121627 A3 20210128; RU 2753614 C2 20210818; UA 124742 C2 20211110; US 11505758 B2 20221122; US 2019330556 A1 20191031; WO 2018113850 A2 20180628; WO 2018113850 A3 20181011; ZA 201903798 B 20210428

DOCDB simple family (application)
DE 102016125289 A 20161221; AU 2017383702 A 20171221; BR 112019012914 A 20171221; CA 3047861 A 20171221; CN 201780079833 A 20171221; DE 2017101100 W 20171221; EP 17842380 A 20171221; ES 17842380 T 20171221; HU E17842380 A 20171221; JP 2019534188 A 20171221; KR 20197021223 A 20171221; MX 2019007388 A 20171221; PL 17842380 T 20171221; PT 17842380 T 20171221; RU 2019121627 A 20171221; UA A201907822 A 20171221; US 201716471963 A 20171221; ZA 201903798 A 20190612