

Title (en)

LUBRICATING GREASE FOR LUBRICATING METAL-CAOUTCHOUC CONTACTS AND PROCESS FOR ITS PREPARATION.

Title (de)

SCHMIERFETT ZUR SCHMIERUNG VON METAL-KAUTSCHUK VERBINDUNGEN SOWIE VERFAHREN ZUR DESSEN HERSTELLUNG.

Title (fr)

GRAISSE LUBRIFIANTE POUR LA LUBRIFICATION DES CONTACTS METAL-CAOUTCHOUC ET PROCEDÉ POUR SA PREPARATION.

Publication

**EP 1390458 A1 20040225 (FR)**

Application

**EP 02738212 A 20020503**

Priority

- FR 0201544 W 20020503
- FR 0106079 A 20010504

Abstract (en)

[origin: WO02090473A1] The invention concerns a lubricating grease, characterised in that it comprises 70 to 95 wt. % of a mixture containing at least a first fatty acid ester and sorbitan and at least a second fatty acid ester and polyalkoxylated sorbitan, said esters being present in weight amounts, relative to the weight of said mixture, of 10 to 90 % and 90 to 10 % respectively, and 5 to 30 wt. % of at least a thickening agent. The invention also concerns a method for preparing a grease in accordance with the invention, and the use of such a grease as lubricant. The invention further concerns a vehicle wheel comprising the inventive grease.

IPC 1-7

**C10M 169/02**; **B60C 17/06**

IPC 8 full level

**B60B 21/12** (2006.01); **B60C 17/04** (2006.01); **C10M 105/38** (2006.01); **C10M 105/40** (2006.01); **C10M 107/34** (2006.01); **C10M 113/00** (2006.01); **C10M 113/10** (2006.01); **C10M 113/12** (2006.01); **C10M 115/04** (2006.01); **C10M 129/08** (2006.01); **C10M 169/02** (2006.01); **C10M 177/00** (2006.01); **C10N 20/00** (2006.01); **C10N 30/06** (2006.01); **C10N 30/08** (2006.01); **C10N 50/10** (2006.01); **C10N 70/00** (2006.01)

CPC (source: EP KR US)

**B60C 17/04** (2013.01 - EP US); **B60C 17/10** (2013.01 - EP US); **C10M 105/40** (2013.01 - EP US); **C10M 107/34** (2013.01 - EP US); **C10M 113/10** (2013.01 - EP US); **C10M 113/12** (2013.01 - EP US); **C10M 113/16** (2013.01 - EP US); **C10M 117/00** (2013.01 - EP US); **C10M 169/02** (2013.01 - EP KR US); **C10M 2201/103** (2013.01 - EP US); **C10M 2201/1036** (2013.01 - EP US); **C10M 2201/105** (2013.01 - EP US); **C10M 2201/14** (2013.01 - EP US); **C10M 2201/145** (2013.01 - EP US); **C10M 2207/022** (2013.01 - EP US); **C10M 2207/106** (2013.01 - EP US); **C10M 2207/1206** (2013.01 - EP US); **C10M 2207/125** (2013.01 - EP US); **C10M 2207/129** (2013.01 - EP US); **C10M 2207/1406** (2013.01 - EP US); **C10M 2207/2613** (2013.01 - EP US); **C10M 2207/2626** (2013.01 - EP US); **C10M 2207/2875** (2013.01 - EP US); **C10M 2207/2885** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2207/2895** (2013.01 - EP US); **C10M 2209/103** (2013.01 - EP US); **C10M 2209/1033** (2013.01 - EP US); **C10M 2209/104** (2013.01 - EP US); **C10M 2209/1045** (2013.01 - EP US); **C10M 2209/1055** (2013.01 - EP US); **C10M 2209/1065** (2013.01 - EP US); **C10M 2209/1075** (2013.01 - EP US); **C10M 2209/1085** (2013.01 - EP US); **C10M 2209/1095** (2013.01 - EP US); **C10M 2215/102** (2013.01 - EP US); **C10M 2217/044** (2013.01 - EP US); **C10M 2217/045** (2013.01 - EP US); **C10N 2010/02** (2013.01 - EP US); **C10N 2030/00** (2013.01 - EP US); **C10N 2040/00** (2013.01 - EP US); **C10N 2040/30** (2013.01 - EP US); **C10N 2040/32** (2013.01 - EP US); **C10N 2040/34** (2013.01 - EP US); **C10N 2040/36** (2013.01 - EP US); **C10N 2040/38** (2020.05 - EP US); **C10N 2040/40** (2020.05 - EP US); **C10N 2040/42** (2020.05 - EP US); **C10N 2040/44** (2020.05 - EP US); **C10N 2040/50** (2020.05 - EP US); **C10N 2050/10** (2013.01 - EP US); **C10N 2060/00** (2013.01 - EP US); **C10N 2070/00** (2013.01 - EP US); **C10N 2070/02** (2020.05 - EP US)

Citation (search report)

See references of WO 02090473A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 02090473 A1 20021114**; BR 0209514 A 20040713; CA 2446065 A1 20021114; EP 1390458 A1 20040225; FR 2824331 A1 20021108; FR 2824331 B1 20040116; JP 2004536169 A 20041202; JP 4234442 B2 20090304; KR 100873839 B1 20081215; KR 20040015713 A 20040219; US 2004127369 A1 20040701; US 7141535 B2 20061128

DOCDB simple family (application)

**FR 0201544 W 20020503**; BR 0209514 A 20020503; CA 2446065 A 20020503; EP 02738212 A 20020503; FR 0106079 A 20010504; JP 2002587540 A 20020503; KR 20037014391 A 20020503; US 47656403 A 20031031