

Title (en)

Grease composition for constant velocity joints

Title (de)

Schmierfettzusammensetzung für homokinetische Gelenke

Title (fr)

Composition de graisse pour joints homocinétiques

Publication

EP 0811675 A1 19971210 (EN)

Application

EP 97303319 A 19970515

Priority

JP 14278796 A 19960605

Abstract (en)

A grease composition for constant velocity joints consists essentially of: (a) a base oil; (b) an urea thickener; (c) molybdenum disulfide; (d) a calcium salt or an overbasic calcium salt selected from the group consisting of calcium salts or overbasic calcium salts of oxidized waxes, petroleum sulfonates, alkyl aryl sulfonates, salicylate, and phenates; (e) a metal-free sulfur-phosphorus extreme pressure agent; and (f) molybdenum dithiocarbamate. The grease composition exhibits excellent wear-resistance and pitting-inhibitory effect.

IPC 1-7

C10M 169/06

IPC 8 full level

C10M 169/06 (2006.01); **F16D 3/20** (2006.01); **C10N 10/04** (2006.01); **C10N 10/12** (2006.01); **C10N 30/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/02** (2006.01); **C10N 40/04** (2006.01); **C10N 50/10** (2006.01)

CPC (source: EP KR)

C10M 115/08 (2013.01 - EP); **C10M 119/24** (2013.01 - EP KR); **C10M 125/00** (2013.01 - KR); **C10M 125/22** (2013.01 - EP); **C10M 129/10** (2013.01 - EP); **C10M 129/54** (2013.01 - EP); **C10M 135/10** (2013.01 - EP); **C10M 135/18** (2013.01 - EP); **C10M 137/00** (2013.01 - EP); **C10M 137/10** (2013.01 - EP); **C10M 159/06** (2013.01 - EP); **C10M 159/20** (2013.01 - EP); **C10M 159/22** (2013.01 - EP); **C10M 159/24** (2013.01 - EP); **C10M 169/06** (2013.01 - EP); **C10M 2201/065** (2013.01 - EP); **C10M 2201/066** (2013.01 - EP); **C10M 2201/084** (2013.01 - EP); **C10M 2205/14** (2013.01 - EP); **C10M 2205/16** (2013.01 - EP); **C10M 2205/17** (2013.01 - EP); **C10M 2207/023** (2013.01 - EP); **C10M 2207/026** (2013.01 - EP); **C10M 2207/027** (2013.01 - EP); **C10M 2207/028** (2013.01 - EP); **C10M 2207/144** (2013.01 - EP); **C10M 2207/146** (2013.01 - EP); **C10M 2207/26** (2013.01 - EP); **C10M 2207/262** (2013.01 - EP); **C10M 2209/10** (2013.01 - EP); **C10M 2215/006** (2013.01 - EP); **C10M 2215/026** (2013.01 - EP); **C10M 2215/0813** (2013.01 - EP); **C10M 2215/1013** (2013.01 - EP); **C10M 2215/102** (2013.01 - EP); **C10M 2215/1026** (2013.01 - EP); **C10M 2215/121** (2013.01 - EP); **C10M 2215/2206** (2013.01 - EP); **C10M 2215/2275** (2013.01 - EP); **C10M 2217/044** (2013.01 - EP); **C10M 2217/045** (2013.01 - EP); **C10M 2219/044** (2013.01 - EP); **C10M 2219/046** (2013.01 - EP); **C10M 2219/066** (2013.01 - EP); **C10M 2219/068** (2013.01 - EP); **C10M 2219/089** (2013.01 - EP); **C10M 2223/00** (2013.01 - EP); **C10M 2223/045** (2013.01 - EP); **C10M 2223/047** (2013.01 - EP); **C10N 2010/12** (2013.01 - EP); **C10N 2040/00** (2013.01 - EP); **C10N 2040/30** (2013.01 - EP); **C10N 2040/32** (2013.01 - EP); **C10N 2040/34** (2013.01 - EP); **C10N 2040/36** (2013.01 - EP); **C10N 2040/38** (2020.05 - EP); **C10N 2040/40** (2020.05 - EP); **C10N 2040/42** (2020.05 - EP); **C10N 2040/44** (2020.05 - EP); **C10N 2040/50** (2020.05 - EP); **C10N 2060/04** (2013.01 - EP)

Citation (search report)

- [E] EP 0773280 A2 19970514 - KYODO YUSHI [JP]
- [Y] US 5207936 A 19930504 - ANZAI YASUYUKI [JP], et al
- [Y] US 5516439 A 19960514 - TAKEUCHI KIYOSHI [JP], et al
- [Y] US 5160645 A 19921103 - OKANIWA TAKASHI [JP], et al
- [A] US 5449471 A 19950912 - OZAKI TAKAHIRO [JP], et al
- [A] US 5498357 A 19960312 - NAKA MICHIHARU [JP], et al
- [A] US 5059336 A 19911022 - NAKA MICHIHARU [JP], et al

Cited by

EP1811012A4; EP1642957A1; EP0972821A3; FR2795736A1; DE10031647B4; WO2006049280A1; US9243671B2; US6319880B1; US6432889B1; US7910526B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0811675 A1 19971210; **EP 0811675 B1 20011212**; CN 1069691 C 20010815; CN 1168916 A 19971231; DE 69708974 D1 20020124; DE 69708974 T2 20020808; ES 2164991 T3 20020301; JP 3320611 B2 20020903; JP H09324189 A 19971216; KR 100410724 B1 20040330; KR 980002219 A 19980330; TW 349118 B 19990101

DOCDB simple family (application)

EP 97303319 A 19970515; CN 97113570 A 19970604; DE 69708974 T 19970515; ES 97303319 T 19970515; JP 14278796 A 19960605; KR 19970023290 A 19970605; TW 86107739 A 19970605