

Title (en)

POLYUREA LUBRICATING GREASES CONTAINING CARBONATES, AND THEIR USE

Title (de)

POLYHARNSTOFF-SCHMIERFETTE ENTHALTEND CARBONATE UND DEREN VERWENDUNG

Title (fr)

GRAISSES LUBRIFIANTES À BASE DE POLYURÉE CONTENANT DES CARBONATES, ET LEUR UTILISATION

Publication

EP 4176027 A1 20230510 (DE)

Application

EP 21739966 A 20210701

Priority

- DE 102020117671 A 20200703
- DE 2021100568 W 20210701

Abstract (en)

[origin: CA3182878A1] The invention relates to polyurea lubricating grease compositions containing polyurea thickeners and at least one organic carbonate, to lubrication points or components containing the polyurea lubricating grease composition, to a seal comprising sealing material from fluorinated elastomers and to the use of the lubricating greases.

IPC 8 full level

C10M 161/00 (2006.01)

CPC (source: EP KR US)

C10M 129/84 (2013.01 - US); **C10M 161/00** (2013.01 - EP); **C10M 169/00** (2013.01 - KR); **C10M 169/04** (2013.01 - US); **C10M 2203/003** (2013.01 - US); **C10M 2205/0285** (2013.01 - EP KR); **C10M 2207/04** (2013.01 - EP KR); **C10M 2207/1285** (2013.01 - EP KR US); **C10M 2207/32** (2013.01 - US); **C10M 2217/0456** (2013.01 - EP KR US); **C10N 2020/02** (2013.01 - EP KR US); **C10N 2030/36** (2020.05 - EP KR US); **C10N 2040/02** (2013.01 - EP KR US); **C10N 2040/04** (2013.01 - US); **C10N 2050/10** (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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020117671 A1 20211021; **DE 102020117671 B4 20220609**; AU 2021302154 A1 20230302; BR 112022026813 A2 20230425; CA 3182878 A1 20220106; CN 115843307 A 20230324; EP 4176027 A1 20230510; EP 4176027 B1 20231220; EP 4176027 C0 20231220; ES 2972947 T3 20240617; HR P20240241 T1 20240524; HR P20240241 T8 20240607; HU E065479 T2 20240528; JP 2023532131 A 20230726; KR 20230035334 A 20230313; MA 60203 B1 20240329; MX 2022016216 A 20230201; PL 4176027 T3 20240506; RS 65283 B1 20240329; US 12054691 B2 20240806; US 2023257677 A1 20230817; WO 2022002317 A1 20220106; ZA 202212961 B 20240131

DOCDB simple family (application)

DE 102020117671 A 20200703; AU 2021302154 A 20210701; BR 112022026813 A 20210701; CA 3182878 A 20210701; CN 202180047056 A 20210701; DE 2021100568 W 20210701; EP 21739966 A 20210701; ES 21739966 T 20210701; HR P20240241 T 20210701; HU E21739966 A 20210701; JP 2022581427 A 20210701; KR 20237003245 A 20210701; MA 60203 A 20210701; MX 2022016216 A 20210701; PL 21739966 T 20210701; RS P20240291 A 20210701; US 202118002987 A 20210701; ZA 202212961 A 20221129