

Title (en)
LUBRICATING GREASE FOR ROCK DRILL BITS AND BITS SO LUBRICATED

Publication
EP 0191608 A3 19880727 (EN)

Application
EP 86300831 A 19860206

Priority
GB 8503382 A 19850209

Abstract (en)
[origin: EP0191608A2] A lubricating grease suitable for use in rock drill bits comprises: (1) a major proportion of a mineral or synthetic hydrocarbon base oil, (2) from 3 to 15% wt by weight of the grease of a lithium complex soap as the sole thickener, and (3) from 5 to 20% wt by weight of the grease of molybdenum disulphide particles as extreme pressure additive. Such a grease has the required lubricating qualities and the required flow properties for use in rock drill bits having a grease reservoir (e.g. a pressure equalisation chamber) and channels connecting the reservoir to the bearing surfaces.

IPC 1-7
C10M 169/06

IPC 8 full level
C10M 169/06 (2006.01); **C10N 10/02** (2006.01); **C10N 10/12** (2006.01); **C10N 30/06** (2006.01); **C10N 40/00** (2006.01); **C10N 50/10** (2006.01)

CPC (source: EP)
C10M 117/00 (2013.01); **C10M 125/22** (2013.01); **C10M 169/06** (2013.01); **C10M 2201/065** (2013.01); **C10M 2201/066** (2013.01); **C10M 2201/084** (2013.01); **C10M 2207/106** (2013.01); **C10M 2207/1206** (2013.01); **C10M 2207/123** (2013.01); **C10M 2207/125** (2013.01); **C10M 2207/129** (2013.01); **C10M 2207/1406** (2013.01); **C10M 2207/16** (2013.01); **C10M 2207/18** (2013.01); **C10M 2207/22** (2013.01); **C10M 2207/2613** (2013.01); **C10M 2207/2626** (2013.01); **C10M 2223/045** (2013.01); **C10N 2010/02** (2013.01); **C10N 2010/04** (2013.01); **C10N 2040/00** (2013.01); **C10N 2040/30** (2013.01); **C10N 2040/32** (2013.01); **C10N 2040/34** (2013.01); **C10N 2040/36** (2013.01); **C10N 2040/38** (2020.05); **C10N 2040/40** (2020.05); **C10N 2040/42** (2020.05); **C10N 2040/44** (2020.05); **C10N 2040/50** (2020.05)

Citation (search report)
• [X] FR 1460413 A 19661125 - SHELL INT RESEARCH
• [Y] US 3223624 A 19651214 - MORWAY ARNOLD J, et al
• [YD] US 4358384 A 19821109 - NEWCOMB ALAN L
• [Y] US 3985662 A 19761012 - CAMPBELL IAN D, et al
• [Y] US 3791973 A 19740212 - GILANI S, et al
• [A] US 3929651 A 19751230 - MURRAY DONALD W, et al
• [A] EP 0084910 A2 19830803 - SHELL INT RESEARCH [NL]
• [A] FR 1040711 A 19531019 - SHELL REFINING & MARKETING CO
• [A] FR 2107892 A1 19720512 - MOBIL OIL CORP

Cited by
US5015401A; CN111892984A; US5681799A; US5668092A; CN1053214C; US6056072A; US5891830A; US5589443A; GB2308382A; GB2308382B; CN108048186A; WO9703152A1; US9096814B2; US9719046B2

Designated contracting state (EPC)
DE FR GB NL SE

DOCDB simple family (publication)
EP 0191608 A2 19860820; EP 0191608 A3 19880727; GB 8503382 D0 19850313; JP S61183393 A 19860816; NO 860435 L 19860811

DOCDB simple family (application)
EP 86300831 A 19860206; GB 8503382 A 19850209; JP 2220586 A 19860205; NO 860435 A 19860207