

Title (en)
NON-STAINING SOLID LUBRICANTS

Title (de)
NICHTVERSCHMUTZENDE FESTE SCHMIERMITTEL

Title (fr)
LUBRIFIANTS SOLIDES NON TACHANTS

Publication
EP 0638116 B1 19990602 (EN)

Application
EP 90916328 A 19901030

Priority
• GB 9001659 W 19901030
• GB 8924457 A 19891031

Abstract (en)
[origin: WO9106619A1] As a lubricant for cold-working of metal there is provided on the surface of the metal to be subjected to working a solid film of a saturated aliphatic monohydric alcohol having 14 to 18 carbon atoms. After the metal has been worked, the solid lubricant may be removed by heating without causing staining of the metal surface. The solid lubricant film may additionally contain from 1 to 10 % by weight of a polybutene, petroleum jelly or butyl stearate to modify the properties of the lubricant film.

IPC 1-7
C10M 105/12

IPC 8 full level
B21B 45/02 (2006.01); **B21C 23/32** (2006.01); **C10M 105/12** (2006.01); **C10M 169/04** (2006.01); **C10N 30/06** (2006.01); **C10N 40/24** (2006.01); **C10N 50/02** (2006.01)

CPC (source: EP)
C10M 105/12 (2013.01); **C10M 129/70** (2013.01); **C10M 143/06** (2013.01); **C10M 159/06** (2013.01); **C10M 169/04** (2013.01); **C10M 169/044** (2013.01); **C10M 2205/026** (2013.01); **C10M 2205/14** (2013.01); **C10M 2205/16** (2013.01); **C10M 2205/17** (2013.01); **C10M 2207/021** (2013.01); **C10M 2207/0215** (2013.01); **C10M 2207/281** (2013.01); **C10M 2207/282** (2013.01); **C10M 2207/283** (2013.01); **C10M 2207/284** (2013.01); **C10M 2207/286** (2013.01); **C10N 2040/24** (2013.01); **C10N 2040/241** (2020.05); **C10N 2040/242** (2020.05); **C10N 2040/243** (2020.05); **C10N 2040/244** (2020.05); **C10N 2040/245** (2020.05); **C10N 2040/246** (2020.05); **C10N 2040/247** (2020.05); **C10N 2050/02** (2013.01)

Cited by
EP3165589A1; US10975324B2

Designated contracting state (EPC)
DE DK ES FR GB IT SE

DOCDB simple family (publication)
WO 9106619 A1 19910516; AU 6638490 A 19910531; CA 2071830 A1 19910501; DE 69033147 D1 19990708; DE 69033147 T2 20000105; EP 0638116 A1 19950215; EP 0638116 B1 19990602; GB 8924457 D0 19891220; JP H05501427 A 19930318; ZA 908752 B 19910925

DOCDB simple family (application)
GB 9001659 W 19901030; AU 6638490 A 19901030; CA 2071830 A 19901030; DE 69033147 T 19901030; EP 90916328 A 19901030; GB 8924457 A 19891031; JP 51519390 A 19901030; ZA 908752 A 19901031