

Title (en)  
Lubricant for forging steel.

Title (de)  
Schmierstoff für die spanlose Verformung von Stahl.

Title (fr)  
Lubrifiant pour formage d'acier.

Publication  
**EP 0261438 A2 19880330 (DE)**

Application  
**EP 87112493 A 19870827**

Priority  
CH 380086 A 19860923

Abstract (en)  
1. A lubricant for use in non-cutting shaping of steel at high temperatures and containing a solid lubricant, a binder and a thickener, characterised in that the binder is a carboxylated styrene-butadiene latex.

Abstract (de)  
Schmierstoff für die Verwendung bei der spanlosen Verformung von Stahl bei hohen Temperaturen und insbesondere bei der Herstellung von nahtlosen Rohren in sogenannten Multiple pipe mills, wobei der Schmierstoff wasserfest auf dem Werkzeug haften muss. Erreicht wird dies durch einen Schmierstoff, enthaltend neben einem Festschmierstoff und einem Verdickungsmittel einen Binder aus der Reihe der carboxylierten Styrol-Butadienlatices.

IPC 1-7  
**C10M 111/04**

IPC 8 full level  
**C10M 173/00** (2006.01); **C08L 13/02** (2006.01); **C10M 111/04** (2006.01); **C10M 125/02** (2006.01); **C10M 125/22** (2006.01); **C10M 125/30** (2006.01); **C10M 143/12** (2006.01); **C10M 145/14** (2006.01); **C10M 145/40** (2006.01); **C10M 149/10** (2006.01); **C10M 173/02** (2006.01); **C10N 20/06** (2006.01); **C10N 30/06** (2006.01); **C10N 40/24** (2006.01); **C10N 50/02** (2006.01)

CPC (source: EP)  
**C10M 103/04** (2013.01); **C10M 103/06** (2013.01); **C10M 107/12** (2013.01); **C10M 107/14** (2013.01); **C10M 111/04** (2013.01); **C10M 125/02** (2013.01); **C10M 125/18** (2013.01); **C10M 125/22** (2013.01); **C10M 143/10** (2013.01); **C10M 143/12** (2013.01); **C10M 173/02** (2013.01); **C10M 2201/00** (2013.01); **C10M 2201/02** (2013.01); **C10M 2201/041** (2013.01); **C10M 2201/042** (2013.01); **C10M 2201/053** (2013.01); **C10M 2201/0603** (2013.01); **C10M 2201/061** (2013.01); **C10M 2201/0613** (2013.01); **C10M 2201/0623** (2013.01); **C10M 2201/065** (2013.01); **C10M 2201/0653** (2013.01); **C10M 2201/066** (2013.01); **C10M 2201/0663** (2013.01); **C10M 2201/08** (2013.01); **C10M 2201/0803** (2013.01); **C10M 2201/081** (2013.01); **C10M 2201/082** (2013.01); **C10M 2201/084** (2013.01); **C10M 2201/0853** (2013.01); **C10M 2201/0863** (2013.01); **C10M 2201/0873** (2013.01); **C10M 2201/1006** (2013.01); **C10M 2201/102** (2013.01); **C10M 2201/1023** (2013.01); **C10M 2201/103** (2013.01); **C10M 2201/1033** (2013.01); **C10M 2201/1053** (2013.01); **C10M 2201/123** (2013.01); **C10M 2201/14** (2013.01); **C10M 2201/16** (2013.01); **C10M 2201/18** (2013.01); **C10M 2203/10** (2013.01); **C10M 2205/04** (2013.01); **C10M 2205/043** (2013.01); **C10M 2205/06** (2013.01); **C10M 2205/063** (2013.01); **C10M 2209/04** (2013.01); **C10M 2209/06** (2013.01); **C10M 2209/062** (2013.01); **C10M 2209/084** (2013.01); **C10M 2209/104** (2013.01); **C10M 2209/12** (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 2050/01** (2020.05); **C10N 2050/02** (2013.01)

C-Set (source: EP)  
**C10M 2201/053 + C10M 2201/053**

Cited by  
EP0412788A1; EP1357175A1; RU2716499C1; EP0468278A1; EP0554822A1; CN115679195A; US7045489B2; WO9702334A1; WO0226919A3

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI LU SE

DOCDB simple family (publication)  
**EP 0261438 A2 19880330; EP 0261438 A3 19881207; EP 0261438 B1 19900801**; AR 243593 A1 19930831; AT E55145 T1 19900815; CH 669603 A5 19890331; CN 1011515 B 19910206; CN 87106375 A 19880406; DE 3764052 D1 19900906; ES 2016603 B3 19901116; JP H0830198 B2 19960327; JP S6389593 A 19880420; SU 1632373 A3 19910228

DOCDB simple family (application)  
**EP 87112493 A 19870827**; AR 30880187 A 19870923; AT 87112493 T 19870827; CH 380086 A 19860923; CN 87106375 A 19870914; DE 3764052 T 19870827; ES 87112493 T 19870827; JP 23467887 A 19870918; SU 4203328 A 19870916