

Title (en)

Lubricating composition for plastic working and articles worked by using the same.

Title (de)

Schmiermittelzusammensetzung für die plastische Verarbeitung und damit verarbeitete Artikel.

Title (fr)

Composition lubrifiante pour traitement plastique et articles traités en l'utilisant.

Publication

**EP 0236022 B1 19940209 (EN)**

Application

**EP 87301471 A 19870220**

Priority

- JP 3743186 A 19860224
- JP 4835486 A 19860307

Abstract (en)

[origin: EP0236022A2] A lubricating oil for plastic working contains a powder of a compound having a urea bond incorporated therein. The lubricating oil forms a thick lubricating coating having excellent thermal resistance and loading resistance on the frictional surface during working by simply applying it on the surface of a material or a mold and, therefore, effectively prevents occurrence of seizing, even in the production of moldings having a high degree of working or complex shapes. The plastic worked product has a coating of the lubricating oil on its surface which provides an excellent anticorrosive effect for steel stocks. The oil may also contain at least one extreme-pressure additive selected from: (1) condensed phosphoric acid, (2) phosphite and phosphate esters, (3) organic sulfur compounds, and (4) organic chlorine compounds. t

IPC 1-7

**C10M 133/20**; **C10M 149/20**; **C10M 141/10**; **C10M 161/00**

IPC 8 full level

**C10M 133/20** (2006.01); **C10M 141/10** (2006.01); **C10M 149/20** (2006.01); **C10M 161/00** (2006.01)

CPC (source: EP)

**C10M 125/24** (2013.01); **C10M 131/14** (2013.01); **C10M 133/20** (2013.01); **C10M 135/00** (2013.01); **C10M 137/00** (2013.01); **C10M 141/10** (2013.01); **C10M 149/20** (2013.01); **C10M 161/00** (2013.01); **C10M 2201/085** (2013.01); **C10M 2205/00** (2013.01); **C10M 2205/026** (2013.01); **C10M 2207/281** (2013.01); **C10M 2207/282** (2013.01); **C10M 2207/283** (2013.01); **C10M 2207/286** (2013.01); **C10M 2209/00** (2013.01); **C10M 2209/02** (2013.01); **C10M 2209/084** (2013.01); **C10M 2209/10** (2013.01); **C10M 2211/08** (2013.01); **C10M 2215/102** (2013.01); **C10M 2217/042** (2013.01); **C10M 2217/043** (2013.01); **C10M 2217/044** (2013.01); **C10M 2217/045** (2013.01); **C10M 2219/00** (2013.01); **C10M 2219/022** (2013.01); **C10M 2219/024** (2013.01); **C10M 2219/082** (2013.01); **C10M 2221/043** (2013.01); **C10M 2223/00** (2013.01); **C10M 2223/04** (2013.01); **C10M 2223/041** (2013.01); **C10M 2223/042** (2013.01); **C10M 2229/051** (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)

Cited by

US6849617B2; EP1829535A3; EP0534248A1; US5314982A; CN115536554A; WO0130333A3; US6608066B1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0236022 A2 19870909**; **EP 0236022 A3 19890208**; **EP 0236022 B1 19940209**; DE 3789026 D1 19940324

DOCDB simple family (application)

**EP 87301471 A 19870220**; DE 3789026 T 19870220