

Title (en)
SEPARATING AND LUBRICATING AGENT IN SOLID FORM

Publication
EP 0116882 A3 19860709 (DE)

Application
EP 84101118 A 19840203

Priority
CH 93483 A 19830218

Abstract (en)
[origin: ES8503025A1] A separating-and-lubricating agent in solid form for warm metal shaping, especially hot-sheet or profile rolling. The softening point of the agent is between 20 DEG and 250 DEG C., the melting point is between 30 DEG and 300 DEG C. and the shore-D-hardness at 200 DEG C. is between 20 and 80. The agent contains at least one thermoplastic polymer and/or copolymer and a lubricant for synthetic substances.

IPC 1-7
C10M 7/00; B21B 45/02; B21B 25/04

IPC 8 full level
B21B 25/04 (2006.01); **B21B 45/02** (2006.01); **C10M 111/04** (2006.01); **C10M 111/06** (2006.01); **C10M 169/00** (2006.01); **C10N 10/04** (2006.01); **C10N 10/12** (2006.01); **C10N 20/00** (2006.01); **C10N 20/06** (2006.01); **C10N 30/08** (2006.01); **C10N 40/24** (2006.01); **C10N 40/30** (2006.01); **C10N 40/36** (2006.01); **C10N 50/08** (2006.01)

CPC (source: EP US)
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Citation (search report)
• [X] FR 2270319 A1 19751205 - LONZA AG [CH]
• [X] DE 2041774 A1 19720224 - BENTELER GEB PADERWERK, et al
• [X] GB 2018820 A 19791024 - NTN TOYO BEARING CO LTD
• [X] GB 2022471 A 19791219 - TI TUBE DIVISION SERVICES LTD, et al

Cited by
EP0468278A1; DE10128401B4; DE102010049645A1; EP0507449A1; EP0403306A1; CN100443576C; CN100425681C; FR2601686A1; EP0369007A4; EP0469906A1; GB2227022A; DE3917726A1; GB2227022B; US10166583B2; WO2012022284A3

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