

Title (en)  
PROCESS TO FACILITATE COLD FORMING

Publication  
**EP 0200167 B1 19900228 (DE)**

Application  
**EP 86105685 A 19860424**

Priority  
JP 9447085 A 19850501

Abstract (en)  
[origin: EP0200167A2] A lubricant coating is formed on a metal surface by application of an aqueous solution of a polyethylene-imine and a thermoplastic water-soluble resin followed by drying and application of a lubricating oil. The lubricant coating serves as a good lubricant for cold working and can subsequently be removed by an alkaline cleaner.

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

IPC 8 full level  
**B21B 1/22** (2006.01); **B21D 22/20** (2006.01); **C10M 111/04** (2006.01)

CPC (source: EP)  
**C10M 101/02** (2013.01); **C10M 101/04** (2013.01); **C10M 105/58** (2013.01); **C10M 105/74** (2013.01); **C10M 107/00** (2013.01); **C10M 107/26** (2013.01); **C10M 111/04** (2013.01); **C10M 2201/041** (2013.01); **C10M 2201/042** (2013.01); **C10M 2201/062** (2013.01); **C10M 2201/066** (2013.01); **C10M 2201/102** (2013.01); **C10M 2203/1006** (2013.01); **C10M 2203/1025** (2013.01); **C10M 2203/1045** (2013.01); **C10M 2203/1065** (2013.01); **C10M 2203/1085** (2013.01); **C10M 2205/003** (2013.01); **C10M 2207/40** (2013.01); **C10M 2207/401** (2013.01); **C10M 2207/404** (2013.01); **C10M 2207/4045** (2013.01); **C10M 2209/0606** (2013.01); **C10M 2209/062** (2013.01); **C10M 2209/084** (2013.01); **C10M 2211/06** (2013.01); **C10M 2213/02** (2013.01); **C10M 2213/062** (2013.01); **C10M 2215/023** (2013.01); **C10M 2215/04** (2013.01); **C10M 2215/26** (2013.01); **C10M 2215/265** (2013.01); **C10M 2217/00** (2013.01); **C10M 2217/02** (2013.01); **C10M 2217/022** (2013.01); **C10M 2217/024** (2013.01); **C10M 2217/028** (2013.01); **C10M 2217/04** (2013.01); **C10M 2217/046** (2013.01); **C10M 2217/06** (2013.01); **C10M 2219/044** (2013.01); **C10M 2223/003** (2013.01); **C10M 2223/023** (2013.01); **C10M 2223/0405** (2013.01); **C10M 2223/043** (2013.01); **C10M 2223/0495** (2013.01); **C10M 2223/0603** (2013.01); **C10M 2223/083** (2013.01); **C10M 2223/103** (2013.01); **C10M 2225/00** (2013.01); **C10M 2225/02** (2013.01); **C10N 2010/02** (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)

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DE

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**EP 0200167 A2 19861105**; **EP 0200167 A3 19871202**; **EP 0200167 B1 19900228**; DE 3613819 A1 19861106; DE 3669172 D1 19900405; GB 2174713 A 19861112; GB 2174713 B 19881130; GB 8610518 D0 19860604; JP S61253128 A 19861111; ZA 863270 B 19870729

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