

## Title (en)

AQUEOUS LUBRICANT, METAL MATERIAL, AND METAL PROCESSED ARTICLES

## Title (de)

WÄSSRIGES SCHMIERMITTEL, METALLMATERIAL UND VERARBEITETE METALLARTIKEL

## Title (fr)

LUBRIFIANT AQUEUX, MATÉRIAU MÉTALLIQUE ET OBJETS MÉTALLIQUES TRAITÉS

## Publication

**EP 3296382 A4 20181010 (EN)**

## Application

**EP 16796270 A 20160425**

## Priority

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## Abstract (en)

[origin: EP3296382A1] An aqueous lubricant for metal material plastic working, which can form a lubricating coating having excellent lubricity (moisture absorption resistance) under a high humidity environment, seizure resistance to metal working with high difficulty, and the like, and further has excellent long-term agent stability; a metal material having a lubricating coating formed by the aqueous lubricant on/over a surface of the metal material; and a metal processed article obtained by molding the metal material are provided. The above problem can be solved by using an aqueous lubricant for metal material plastic working in which an aliphatic polycarboxylic acid having 5 to 8 carbon atoms and a solubility in water at 20°C of 10 g/100 mL or more and an alkaline earth metal compound are blended in water, or an alkaline earth metal salt of the aliphatic polycarboxylic acid is dissolved or dispersed in water.

## IPC 8 full level

**C10M 105/26** (2006.01); **C10M 125/02** (2006.01); **C10M 125/10** (2006.01); **C10M 125/18** (2006.01); **C10M 125/22** (2006.01); **C10M 125/24** (2006.01); **C10M 125/26** (2006.01); **C10M 125/30** (2006.01); **C10M 129/34** (2006.01); **C10M 129/40** (2006.01); **C10M 129/42** (2006.01); **C10M 129/44** (2006.01); **C10M 159/06** (2006.01); **C10M 173/02** (2006.01); **C10N 10/04** (2006.01); **C10N 10/08** (2006.01); **C10N 10/12** (2006.01); **C10N 20/00** (2006.01); **C10N 30/00** (2006.01); **C10N 30/06** (2006.01)

## CPC (source: EP US)

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## Citation (search report)

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