

Title (en)

COOLING LUBRICANT FOR COLD ROLLING ALUMINUM

Title (de)

KÜHLSCHMIERSTOFF FÜR DAS KALTWALZEN VON ALUMINIUM

Title (fr)

LUBRIFIANT DE REFROIDISSEMENT POUR LAMINAGE À FROID D'ALUMINIUM

Publication

EP 4196558 A1 20230621 (DE)

Application

EP 21762692 A 20210817

Priority

- EP 20191350 A 20200817
- EP 2021072781 W 20210817

Abstract (en)

[origin: CA3191862A1] Described is a cooling lubricant for cold rolling aluminum, containing: - a mineral oil-based or synthetic lubricating base oil, - and a polyalkylene glycol or a compound that contains a polyalkylene oxide structure, the cooling lubricant not being water-soluble or water-miscible, and - the cooling lubricant being substantially free of fatty acids and fatty alcohols.

IPC 8 full level

C10M 145/26 (2006.01); **C10M 145/28** (2006.01); **C10M 145/30** (2006.01); **C10M 145/32** (2006.01); **C10M 145/36** (2006.01); **C10N 20/00** (2006.01); **C10N 20/02** (2006.01); **C10N 30/00** (2006.01); **C10N 30/06** (2006.01); **C10N 40/20** (2006.01); **C10N 40/24** (2006.01)

CPC (source: EP KR US)

C10M 101/00 (2013.01 - US); **C10M 145/26** (2013.01 - EP KR); **C10M 145/28** (2013.01 - EP KR); **C10M 145/30** (2013.01 - EP KR); **C10M 145/32** (2013.01 - EP KR); **C10M 145/34** (2013.01 - US); **C10M 145/36** (2013.01 - EP KR); **C10M 169/041** (2013.01 - US); **C22F 1/04** (2013.01 - US); **C10M 2207/281** (2013.01 - EP KR); **C10M 2209/103** (2013.01 - EP KR); **C10M 2209/104** (2013.01 - EP KR); **C10M 2209/105** (2013.01 - EP KR); **C10M 2209/106** (2013.01 - EP KR); **C10M 2209/108** (2013.01 - EP KR); **C10N 2020/02** (2013.01 - EP KR); **C10N 2020/09** (2020.05 - EP KR); **C10N 2020/093** (2020.05 - US); **C10N 2030/06** (2013.01 - EP KR); **C10N 2030/24** (2020.05 - KR); **C10N 2030/40** (2020.05 - EP KR); **C10N 2040/24** (2013.01 - EP); **C10N 2040/243** (2020.05 - EP KR US); **C10N 2040/245** (2020.05 - EP KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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EP 20191350 A 20200817; BR 112023002718 A 20210817; CA 3191862 A 20210817; CN 202180050723 A 20210817; EP 2021072781 W 20210817; EP 21762692 A 20210817; JP 2023512129 A 20210817; KR 20237008238 A 20210817; US 202318171003 A 20230217