

Title (en)
A HOT ROLLING OIL FOR STEEL

Title (de)
HEISSWALZÖL FÜR STAHL

Title (fr)
HUILE DE LAMINAGE D'ACIER À CHAUD

Publication
EP 3061804 A1 20160831 (EN)

Application
EP 16151505 A 20160115

Priority
IN 660MU2015 A 20150228

Abstract (en)
The present invention relates to a composition of oil suitable for hot rolling of steel and its alloys. The oil composition forms an oil-in-water dispersion when mixed with water using proper agitation and provides adequate lubricity and load carrying capacity during rolling of steel slab/sheets.

IPC 8 full level
C10M 173/00 (2006.01)

CPC (source: CN EP US)
B21B 45/0242 (2013.01 - US); **C10M 169/042** (2013.01 - CN); **C10M 173/00** (2013.01 - EP US); **C10M 2201/02** (2013.01 - EP US); **C10M 2203/10** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/102** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2203/104** (2013.01 - EP US); **C10M 2205/026** (2013.01 - EP US); **C10M 2205/028** (2013.01 - EP US); **C10M 2205/0285** (2013.01 - EP US); **C10M 2207/026** (2013.01 - EP US); **C10M 2207/125** (2013.01 - EP US); **C10M 2207/126** (2013.01 - EP US); **C10M 2207/28** (2013.01 - EP US); **C10M 2207/281** (2013.01 - CN EP US); **C10M 2207/2815** (2013.01 - EP US); **C10M 2207/283** (2013.01 - EP US); **C10M 2207/285** (2013.01 - EP US); **C10M 2207/289** (2013.01 - EP US); **C10M 2207/2895** (2013.01 - EP US); **C10M 2207/40** (2013.01 - CN EP US); **C10M 2207/401** (2013.01 - EP US); **C10M 2207/402** (2013.01 - CN EP US); **C10M 2209/104** (2013.01 - EP US); **C10M 2215/064** (2013.01 - EP US); **C10M 2219/024** (2013.01 - CN EP US); **C10M 2227/02** (2013.01 - EP US); **C10M 2229/02** (2013.01 - EP US); **C10N 2030/06** (2013.01 - CN EP US); **C10N 2030/24** (2020.05 - CN EP US); **C10N 2030/43** (2020.05 - EP US); **C10N 2040/24** (2013.01 - EP US); **C10N 2040/242** (2020.05 - CN EP US); **C10N 2040/244** (2020.05 - CN); **C10N 2040/246** (2020.05 - CN EP US); **C10N 2050/01** (2020.05 - EP US); **C10N 2050/011** (2020.05 - CN EP US); **C10N 2060/10** (2013.01 - EP US)

Citation (applicant)
• US 4978465 A 19901218 - STURWOLD ROBERT J [US]
• WO 2011117892 A2 20110929 - INDIAN OIL CORP LTD [IN], et al

Citation (search report)
• [X] CN 103981000 A 20140813 - SHANGHAI PARKER CHEMICAL INDUSTRY CO LTD
• [X] US 2689222 A 19540914 - OATHOUT JOHN D
• [A] CN 1940040 A 20070404 - CHINA PETROCHEMICAL CORP [CN]
• [AD] WO 2011117892 A2 20110929 - INDIAN OIL CORP LTD [IN], et al
• [A] GB 2305934 A 19970423 - CRODA INT PLC [GB]
• [A] US 2004214734 A1 20041028 - KING JAMES P [US], et al

Cited by
IT202000017149A1; WO2022013902A1

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

DOCDB simple family (publication)
EP 3061804 A1 20160831; CN 105925348 A 20160907; US 2016251594 A1 20160901

DOCDB simple family (application)
EP 16151505 A 20160115; CN 201610108294 A 20160226; US 201615054079 A 20160225