

Title (en)

METALWORKING FLUID COMPOSITION AND METHOD FOR ITS USE IN THE MACHINING OF COMPACTED GRAPHITE IRON

Title (de)

METALLBEARBEITUNGSFLÜSSIGKEITZUSAMMENSETZUNG UND VERFAHREN ZU IHRER VERWENDUNG BEI DER BEARBEITUNG VON GUSSEISEN MIT VERMICULARGRAPHIT

Title (fr)

COMPOSITION DE FLUIDE POUR TRAVAIL DES MÉTAUX ET SON PROCÉDÉ D'UTILISATION DANS L'USINAGE DU FER À GRAPHITE COMPACTÉ

Publication

EP 2788461 A1 20141015 (EN)

Application

EP 12856027 A 20121210

Priority

- US 201161568979 P 20111209
- US 2012068708 W 20121210

Abstract (en)

[origin: US2013150271A1] Compositions and methods for reducing toolwear during iron-machining, including applying a composition comprising water; a lubricant ester; and a sulfur-containing lubricant additive.

IPC 8 full level

C10M 105/38 (2006.01)

CPC (source: EP US)

C10M 169/048 (2013.01 - EP US); **C10M 173/00** (2013.01 - EP US); **C10M 2201/087** (2013.01 - EP US); **C10M 2203/1006** (2013.01 - EP US); **C10M 2203/1025** (2013.01 - EP US); **C10M 2203/1065** (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 2207/2805** (2013.01 - EP US); **C10M 2207/283** (2013.01 - EP US); **C10M 2207/2835** (2013.01 - EP US); **C10M 2207/40** (2013.01 - EP US); **C10M 2207/401** (2013.01 - EP US); **C10M 2209/102** (2013.01 - EP US); **C10M 2209/1023** (2013.01 - EP US); **C10M 2209/104** (2013.01 - EP US); **C10M 2209/1045** (2013.01 - EP US); **C10M 2209/105** (2013.01 - EP US); **C10M 2209/1055** (2013.01 - EP US); **C10M 2209/107** (2013.01 - EP US); **C10M 2209/1075** (2013.01 - EP US); **C10M 2209/109** (2013.01 - EP US); **C10M 2209/1095** (2013.01 - EP US); **C10M 2215/04** (2013.01 - EP US); **C10M 2215/042** (2013.01 - EP US); **C10M 2219/022** (2013.01 - EP US); **C10M 2219/024** (2013.01 - EP US); **C10M 2219/08** (2013.01 - EP US); **C10M 2219/082** (2013.01 - EP US); **C10M 2227/06** (2013.01 - EP US); **C10M 2227/061** (2013.01 - EP US); **C10M 2227/063** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2040/246** (2020.05 - EP 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

DOCDB simple family (publication)

US 2013150271 A1 20130613; BR 112014013879 A2 20170613; BR 112014013879 A8 20170613; CN 104185675 A 20141203; EP 2788461 A1 20141015; EP 2788461 A4 20150819; HK 1202575 A1 20151002; JP 2015503012 A 20150129; MX 2014006721 A 20141013; WO 2013086483 A1 20130613

DOCDB simple family (application)

US 201213709521 A 20121210; BR 112014013879 A 20121210; CN 201280069244 A 20121210; EP 12856027 A 20121210; HK 15102953 A 20150323; JP 2014546168 A 20121210; MX 2014006721 A 20121210; US 2012068708 W 20121210