

Title (en)

WATER-SOLUBLE WORKING FLUID FOR FIXED ABRASIVE GRAIN WIRE SAW

Title (de)

WASSERLÖSLICHE ARBEITSFLÜSSIGKEIT FÜR EINE DRAHTSÄGE MIT EINEM FIXIERTEN SCHLEIFMITTEL

Title (fr)

FLUIDE DE TRAVAIL HYDROSOLUBLE POUR MACHINE À SCIER À FIL À GRAINS ABRASIFS FIXES

Publication

EP 2679661 A4 20141217 (EN)

Application

EP 12749002 A 20120221

Priority

- JP 2011037634 A 20110223
- JP 2012054115 W 20120221

Abstract (en)

[origin: EP2679661A1] Provided is a water-soluble working fluid for a fixed-abrasive wire saw, the water-soluble working fluid comprising: (C) a carboxylic acid; (D) a compound which shows basicity on dissolution in water; and (E) water, wherein an electrical conductivity at 25°C of the water-soluble working fluid is 300 μ S/cm or more and 3000 μ S/cm or less; a pH at 25°C of the water-soluble working fluid is 5 or more and 10 or less; and a viscosity of a simulated fluid formed by adding 10 mass % of a silicon powder having an average particle size of 1.5 μ m to the water-soluble working fluid and stirring a resultant mixture is less than 30 mPa·s at 25°C.

IPC 8 full level

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CPC (source: EP KR)

B24B 27/06 (2013.01 - KR); **B28D 5/0076** (2013.01 - EP); **C10M 125/26** (2013.01 - KR); **C10M 173/02** (2013.01 - EP KR); **C10M 2201/062** (2013.01 - EP); **C10M 2207/022** (2013.01 - EP); **C10M 2207/12** (2013.01 - EP); **C10M 2207/124** (2013.01 - EP); **C10M 2207/127** (2013.01 - EP); **C10M 2209/103** (2013.01 - EP); **C10M 2209/104** (2013.01 - EP); **C10M 2209/105** (2013.01 - EP); **C10M 2209/108** (2013.01 - EP); **C10M 2215/04** (2013.01 - EP); **C10M 2215/042** (2013.01 - EP); **C10M 2217/028** (2013.01 - EP); **C10M 2229/02** (2013.01 - EP); **C10N 2020/011** (2020.05 - EP); **C10N 2020/04** (2013.01 - EP); **C10N 2030/02** (2013.01 - EP); **C10N 2030/04** (2013.01 - EP); **C10N 2030/12** (2013.01 - EP); **C10N 2030/28** (2020.05 - EP); **C10N 2040/22** (2013.01 - EP); **C10N 2040/32** (2013.01 - EP)

C-Set (source: EP)

1. **C10M 2209/104 + C10M 2209/105 + C10M 2209/108**
2. **C10M 2201/062 + C10N 2010/02**

Citation (search report)

- [I] EP 1752521 A1 20070214 - YUSHIRO CHEM IND [JP]
- [A] WO 2010113678 A1 20101007 - IDEMITSU KOSAN CO [JP], et al & EP 2415853 A1 20120208 - IDEMITSU KOSAN CO [JP]
- See references of WO 2012115099A1

Cited by

US2015133354A1; US9850443B2; US9803156B2

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DOCDB simple family (application)

EP 12749002 A 20120221; CN 201280008985 A 20120221; JP 2011037634 A 20110223; JP 2012054115 W 20120221; KR 20137024673 A 20120221; SG 2013047295 A 20120221; TW 101105989 A 20120223