

Title (en)

WORKING FLUID FOR BRITTLE MATERIAL AND WORKING FLUID FOR HARD MATERIAL

Title (de)

ARBEITSFLÜSSIGKEIT FÜR SPRÖDE MATERIALIEN UND ARBEITSFLÜSSIGKEIT FÜR HARTE MATERIALIEN

Title (fr)

FLUIDE DE TRAVAIL POUR MATÉRIAU FRAGILE ET FLUIDE DE TRAVAIL POUR MATÉRIAU DUR

Publication

EP 2415853 A4 20121226 (EN)

Application

EP 10758452 A 20100319

Priority

- JP 2010054813 W 20100319
- JP 2009086107 A 20090331

Abstract (en)

[origin: EP2415853A1] Provided is a water-containing working fluid for a brittle material and a hard material, which includes (A) water, (B) a water soluble polymeric compound having an oxygen-containing group and a number average molecular weight of 6,000 to 3,000,000, and (C) a nonionic surfactant having a clouding point of 10 to 70°C in a 1% by mass aqueous solution. In a loose-abrasive grain method, the working fluid allows a slurry thereof to be supplied into the working gap sufficiently and has excellent abrasive grain dispersion stability and excellent properties to wash and disperse cutting swarf. In a method using a fixed-abrasive grain wire saw, the working fluid rarely causes detachment of the fixed abrasive grains and has excellent properties to wash and disperse cutting swarf.

IPC 8 full level

C10M 173/02 (2006.01); **C10N 10/02** (2006.01); **C10N 20/04** (2006.01); **C10N 30/02** (2006.01); **C10N 30/06** (2006.01); **C10N 40/32** (2006.01)

CPC (source: EP US)

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C-Set (source: EP US)

EP

1. **C10M 2209/104** + **C10M 2209/105**
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US

1. **C10M 2209/084** + **C10N 2010/02**
2. **C10M 2209/104** + **C10M 2209/105**

Citation (search report)

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