

Title (en)

AQUEOUS PROCESSING SOLUTION FOR FIXED ABRASIVE GRAIN WIRE SAW

Title (de)

WÄSSRIGE VERARBEITUNGSLÖSUNG FÜR EINE KETTENSÄGE MIT FESTEN SCHLEIFKÖRNERN

Title (fr)

SOLUTION AQUEUSE DE TRAITEMENT POUR CÂBLE DE SCIAGE À GRAIN ABRASIF FIXE

Publication

EP 2602058 A4 20141224 (EN)

Application

EP 11814573 A 20110729

Priority

- JP 2010174673 A 20100803
- JP 2011067457 W 20110729

Abstract (en)

[origin: EP2602058A1] Provided is an aqueous working fluid for a fixed-abrasive wire saw, the aqueous working fluid comprising (A) at least one water-soluble polymer selected from polyvinylpyrrolidone and a copolymer including vinylpyrrolidone and (B) water, and being able to inhibit: its viscosity increase when mixed with cut debris; reaction between the working fluid and the cut debris and generation of hydrogen; and viscosity increase or gelation of the working fluid mixed with the cut debris.

IPC 8 full level

B28D 5/00 (2006.01); **C10M 173/02** (2006.01); **C10N 10/02** (2006.01); **C10N 20/04** (2006.01); **C10N 20/06** (2006.01); **C10N 30/02** (2006.01); **C10N 30/04** (2006.01); **C10N 40/22** (2006.01)

CPC (source: EP KR)

B28D 5/0076 (2013.01 - EP KR); **C10M 173/02** (2013.01 - EP KR); **C10M 2201/062** (2013.01 - EP KR); **C10M 2207/022** (2013.01 - EP KR); **C10M 2207/046** (2013.01 - EP KR); **C10M 2207/124** (2013.01 - EP KR); **C10M 2207/127** (2013.01 - EP KR); **C10M 2209/062** (2013.01 - EP KR); **C10M 2209/104** (2013.01 - EP KR); **C10M 2215/042** (2013.01 - EP KR); **C10M 2217/028** (2013.01 - EP KR); **C10N 2020/04** (2013.01 - EP); **C10N 2020/06** (2013.01 - EP); **C10N 2030/02** (2013.01 - EP); **C10N 2030/04** (2013.01 - EP); **C10N 2040/22** (2013.01 - EP)

Citation (search report)

- [X] US 2009126713 A1 20090521 - GRUMBINE STEVEN [US], et al
- [X] JP 2009013301 A 20090122 - ADEKA CORP, et al
- See references of WO 2012017947A1

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Designated contracting state (EPC)

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EP 2602058 A1 20130612; **EP 2602058 A4 20141224**; CN 103025486 A 20130403; CN 103025486 B 20160330; JP 2012035336 A 20120223; JP 5420498 B2 20140219; KR 101788901 B1 20171020; KR 20130095724 A 20130828; SG 186486 A1 20130228; TW 201211235 A 20120316; TW I522457 B 20160221; WO 2012017947 A1 20120209

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