

Title (en)  
DOWNHOLE ULTRASONIC WELL CLEANING DEVICE

Title (de)  
ULTRASCHALLREINIGUNGSVORRICHTUNG FÜR BOHRLOCH

Title (fr)  
DISPOSITIF DE NETTOYAGE PAR ULTRASONS DE FOND DE Puits DE FORAGE

Publication  
**EP 1750930 B1 20100929 (EN)**

Application  
**EP 05757243 A 20050603**

Priority  
• US 2005019474 W 20050603  
• US 57643204 P 20040603

Abstract (en)  
[origin: WO2005120816A1] A cleaning apparatus for a subterranean formation or wellbore where caking of particles may affect productivity characterized in that it requires no external electrical source and includes an ultrasonic energy sonde (3) for alternating electric power signal at a selected voltage into ultrasound energy; At least one ultrasonic generator (2) that conditions electrical power to the signal required to energize the ultrasonic energy sonde, a piezoelectric generator (1), in a configuration and with appropriate circuitry to provide electrical power to said ultrasonic generator(s); and a means for applying mechanical force to said electricity generator.

IPC 8 full level  
**E21B 37/00** (2006.01); **B08B 3/12** (2006.01); **B08B 7/02** (2006.01); **B08B 9/04** (2006.01); **E21B 28/00** (2006.01); **E21B 41/00** (2006.01)

CPC (source: EP US)  
**B08B 3/12** (2013.01 - EP US); **B08B 7/02** (2013.01 - EP US); **B08B 9/0436** (2013.01 - EP US); **E21B 28/00** (2013.01 - EP US); **E21B 37/00** (2013.01 - EP US); **E21B 41/0085** (2013.01 - EP US)

Cited by  
CN105239963A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005120816 A1 20051222**; AT E483094 T1 20101015; CA 2566653 A1 20051222; CA 2566653 C 20130115; DE 602005023855 D1 20101111; EP 1750930 A1 20070214; EP 1750930 B1 20100929; NO 20070029 L 20070301; US 2005269078 A1 20051208

DOCDB simple family (application)  
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