

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 A1 20070214 (EN)**

Application  
**EP 05757243 A 20050603**

Priority  
• US 2005019474 W 20050603  
• US 57643204 P 20040603

Abstract (en)  
[origin: US2005269078A1] Disclosed is a cleaning apparatus for any structure where caking of particles may affect productivity, particularly a subterranean formation or wellbore, characterized in that it requires no external electrical source and includes the following elements: At least one ultrasonic energy sonde for converting an alternating electric power signal at a selected voltage into ultrasound energy; At least one ultrasonic generator that conditions electrical power to the signal required to energize the ultrasonic energy sonde; At least one apparatus which converts mechanical energy into electrical energy, preferably a piezoelectric generator, 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 apparatus to generate electricity to power said 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

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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)  
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