

Title (en)

DOWNHOLE VIBRATION APPARATUS AND METHOD

Title (de)

BOHRLOCHVIBRATIONSVORRICHTUNG UND -VERFAHREN

Title (fr)

APPAREIL DE VIBRATION DE FOND DE TROU ET PROCÉDÉ CORRESPONDANT

Publication

**EP 2401465 A2 20120104 (EN)**

Application

**EP 10706123 A 20100226**

Priority

- US 2010025622 W 20100226
- US 15560109 P 20090226

Abstract (en)

[origin: US2010212901A1] A method of extending an earthen bore comprises the steps of rotating a drill bit at the end of a tubular while vibrating the tubular. The method results in reduced friction to tubular advance through the bore and results in stabilized drill bit loading and longer usable drill bit life. A method of conditioning a cement slurry in an annulus between a casing and a bore to improve a resulting cement liner comprises the steps of coupling a vibration generator to the casing, running the casing into the bore, displacing the cement slurry into the annulus and using the vibration generator to vibrate the casing. A vibration generator may comprise a mass, having a mass center, coupled to a frame, a motor and a power source to spin the mass about an axis offset from the mass center.

IPC 8 full level

**E21B 7/24** (2006.01)

CPC (source: EP US)

**E21B 7/24** (2013.01 - EP US); **E21B 23/001** (2020.05 - EP); **E21B 28/00** (2013.01 - EP US); **E21B 33/14** (2013.01 - EP US); **E21B 23/001** (2020.05 - US)

Citation (search report)

See references of WO 2010099465A2

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