

Title (en)  
MUD MOTOR ASSEMBLY

Title (de)  
SCHLAMMMOTORANORDNUNG

Title (fr)  
SYSTÈME DE MOTEUR À BOUE

Publication  
**EP 2715031 A4 20151125 (EN)**

Application  
**EP 12789232 A 20120523**

Priority

- US 201161519487 P 20110523
- US 201161573631 P 20110908
- US 201161629000 P 20111112
- US 201261633776 P 20120218
- US 201261687394 P 20120424
- US 201261688726 P 20120518
- US 201213506887 A 20120522
- US 2012039172 W 20120523

Abstract (en)  
[origin: WO2012162408A1] A longer-lasting, lower cost, more powerful, all metal, mud motor than the presently available progressing cavity type mud motors for drilling boreholes into the earth. A mud motor apparatus possessing one single drive shaft that turns a rotary drill bit, which apparatus is attached to a drill pipe which provides high pressure mud to the mud motor, wherein the drive shaft receives at least a first portion of its rotational torque from any high pressure mud flowing through a first hydraulic chamber within the apparatus, and receives at least a second portion of its rotational torque from any high pressure mud flowing through a second hydraulic chamber within the apparatus. The mud motor apparatus possesses two hydraulic chambers, each having its own power stroke, and return stroke, and acting together in a controlled fashion, provide continuous power to a rotary drill bit.

IPC 8 full level  
**E21B 7/00** (2006.01); **E21B 10/00** (2006.01)

CPC (source: EP)  
**E21B 4/02** (2013.01); **E21B 7/203** (2013.01)

Citation (search report)

- [A] US 2009139769 A1 20090604 - TRAYLOR LELAND B [US]
- [A] US 6289998 B1 20010918 - KRUEGER VOLKER [DE], et al
- See references of WO 2012162408A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012162408 A1 20121129**; CA 2837082 A1 20121129; CA 2837082 C 20200225; EP 2715031 A1 20140409; EP 2715031 A4 20151125; EP 2715031 B1 20161228

DOCDB simple family (application)  
**US 2012039172 W 20120523**; CA 2837082 A 20120523; EP 12789232 A 20120523