

Title (en)
Borehole reamer

Title (de)
Bohrlochräumer

Title (fr)
Alésoir pour trou de forage

Publication
EP 1811125 A1 20070725 (EN)

Application
EP 06001056 A 20060118

Priority
EP 06001056 A 20060118

Abstract (en)
The invention relates to a vibration damping Reamer to be used in stabilizing of oil well drilling tools during operation. The vibration damper (1) is an arrangement that will damp vibrations arising from drilling using rotary drill bit. The said tool with two axially spaced gauged sections (2) and (3) cleans and gauges the hole to size using carbide buttons inserted on the tool side (4). The second function is to keep the drill stem in the centre of drilled hole. By stabilizing the drill stem inside the hole and keeping it in the hole centre, the stabilizer extends the life of the drill bit, cuts down on vibration by minimizing the possible undesired lateral movements of the drill stem while drilling. This tool is threaded at the bottom into the drill bit and at the top into the drill stem.

IPC 8 full level
E21B 17/10 (2006.01); **E21B 10/26** (2006.01)

CPC (source: EP US)
E21B 10/30 (2013.01 - EP US); **E21B 17/10** (2013.01 - EP)

Citation (search report)

- [X] WO 2004029402 A1 20040408 - TRANSCO MFG AUSTRALIA PTY LTD [AU], et al
- [X] GB 2133062 A 19840718 - GROOM INTERNATIONAL LIMITED
- [A] GB 2333542 A 19990728 - DOWNHOLE PRODUCTS PLC [GB]
- [A] US 4385669 A 19830531 - KNUTSEN PAUL [CA]
- [A] US 2217592 A 19401008 - KRICK ARTHUR E, et al

Cited by
CN104612599A; CN104727758A; EP2118429A4; CN104736791A; EP2801692A1; CN113027362A; CN105102752A; US9273519B2; US8162081B2; US10006251B2; WO2017091241A1; US9284784B2; US9488008B2; EP2847412B1

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 LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1811125 A1 20070725; EP 1811125 B1 20081112; AT E414212 T1 20081115; DE 602006003618 D1 20081224

DOCDB simple family (application)
EP 06001056 A 20060118; AT 06001056 T 20060118; DE 602006003618 T 20060118