

Title (en)  
DEVICE OR ACTUATING A BOTTOM TOOL

Title (de)  
VORRICHTUNG ZUR BETÄTIGUNG EINES BOHRLOCHWERKZEUGS

Title (fr)  
DISPOSITIF D'ACTIVATION D'UN OUTIL DE FOND

Publication  
**EP 2102443 A1 20090923 (FR)**

Application  
**EP 07701581 A 20070111**

Priority  
BE 2007000004 W 20070111

Abstract (en)  
[origin: WO2008083448A1] The invention relates to a bottom tool comprising a tubular body (1) with an axial chamber, a hollow piston (8) capable of sliding in said axial chamber, and an actuation device including a trigger member (14) connected to the hollow piston and capable of displacement from a hollow-piston immobilisation position to a withdrawal position in which it releases the hollow piston, a detent tubular sleeve (16) of the trigger member connected to the hollow piston by at least one shearing pin (17), and means for temporarily blocking the detent tubular sleeve that generates a hydraulic pressure rise on the tubular sleeve with a shearing of said at least one shearing pin and the sliding of the detent tubular sleeve in a release position in which the trigger member is capable of displacement into its withdrawal position.

IPC 8 full level  
**E21B 10/32** (2006.01); **E21B 23/04** (2006.01)

CPC (source: EP US)  
**E21B 10/322** (2013.01 - EP US); **E21B 23/0413** (2020.05 - EP US); **E21B 23/042** (2020.05 - EP US)

Cited by  
EP1826001A1; EP2944657A1; WO2013034474A1; WO2014106554A1; EP2933278A1; EP1854627A1; WO2004071767A1; EP2366545A1; WO2011113693A1; EP2955198A1; EP2963496A1; WO2015189092A1; WO2016001023A1

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

DOCDB simple family (publication)  
**WO 2008083448 A1 20080717**; AT E477396 T1 20100815; CA 2674030 A1 20080717; CA 2674030 C 20150630; CN 101636551 A 20100127; CN 101636551 B 20120711; DE 602007008471 D1 20100923; EP 2102443 A1 20090923; EP 2102443 B1 20100811; NO 20092683 L 20091006; US 2010126715 A1 20100527; US 2012318497 A1 20121220; US 8251161 B2 20120828; US 8936112 B2 20150120

DOCDB simple family (application)  
**BE 2007000004 W 20070111**; AT 07701581 T 20070111; CA 2674030 A 20070111; CN 200780049705 A 20070111; DE 602007008471 T 20070111; EP 07701581 A 20070111; NO 20092683 A 20090715; US 201213594220 A 20120824; US 99549507 A 20070111