

Title (en)
WIRELESSLY ACTUATED HYDROSTATIC SET MODULE

Title (de)
DRAHTLOS BETÄTIGTES HYDROSTATISCHES EINSTELLUNGSMODUL

Title (fr)
MODULE DE REGLAGE HYDROSTATIQUE ACTIONNE SANS FIL

Publication
EP 2510190 A4 20171011 (EN)

Application
EP 11732214 A 20110107

Priority
• US 29335510 P 20100108
• US 2011020538 W 20110107

Abstract (en)
[origin: US2011168403A1] A hydrostatic set module configured with a wireless trigger mechanism to allow wireless activation thereof from an oilfield surface. The trigger mechanism includes a charge for exposing the module to wellbore pressures and allowing it to behave as an intensifier for actuation of a downhole device such as a production packer. The mechanism also includes a sensor for detection of the wireless communications along with a processor for analysis thereof and to direct spending of the charge. Pressure pulse or other wireless communication forms that are suitable for the downhole environment may be transmitted from surface in a variety of different signature patterns for responsive analysis by the trigger mechanism.

IPC 8 full level
E21B 47/12 (2012.01); **E21B 23/04** (2006.01); **E21B 43/00** (2006.01)

CPC (source: EP US)
E21B 23/06 (2013.01 - EP); **E21B 23/065** (2013.01 - EP US); **E21B 34/08** (2013.01 - EP US); **E21B 41/00** (2013.01 - EP US);
E21B 47/12 (2013.01 - EP US)

Citation (search report)
• [XY] US 5893413 A 19990413 - LEMBCKE JEFFREY J [US], et al
• [X] US 4856595 A 19890815 - UPCHURCH JAMES M [US]
• [Y] US 6915848 B2 20050712 - THOMEER HUBERTUS V [US], et al
• [Y] US 7337850 B2 20080304 - CONTANT MATTHE [NL]
• [Y] US 3233674 A 19660208 - KURT LEUTWYLER
• [Y] US 2008128130 A1 20080605 - WHITSITT JOHN R [US], et al
• See also references of WO 2011085215A2

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)
US 2011168403 A1 20110714; EP 2510190 A2 20121017; EP 2510190 A4 20171011; EP 2510190 B1 20201202; WO 2011085215 A2 20110714;
WO 2011085215 A3 20111006

DOCDB simple family (application)
US 98663711 A 20110107; EP 11732214 A 20110107; US 2011020538 W 20110107