

Title (en)
CRANKED ROD PUMP APPARATUS AND METHOD

Title (de)
KURBELPUMPVORRICHTUNG UND -VERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉ DE POMPE À TIGE COUDÉE

Publication
EP 3022440 A1 20160525 (EN)

Application
EP 14826286 A 20140702

Priority

- US 201313943933 A 20130717
- US 2014045233 W 20140702

Abstract (en)
[origin: WO2015009452A1] An improved apparatus and method are provided, for pumping fluids, such as water and/or hydrocarbons, from a subterranean formation or reservoir, through use of a cranked rod pumping (cranked rod pumping) apparatus for imparting reciprocating substantially vertical motion to a rod of a sucker-rod pump having a pump stroke. The cranked rod pumping apparatus includes a motor driven cranked mechanical actuator arrangement. The cranked mechanical actuator arrangement includes a cable coupled to a substantially vertically moveable member which is attached to the rod of the sucker-rod pump for imparting and controlling vertical motion of the rod of the sucker-rod pump.

IPC 8 full level
F04B 9/02 (2006.01); **E21B 43/16** (2006.01); **F04B 35/04** (2006.01); **F04B 47/04** (2006.01)

CPC (source: EP US)
E21B 43/127 (2013.01 - EP US); **F04B 17/03** (2013.01 - EP); **F04B 47/02** (2013.01 - EP); **F04B 47/026** (2013.01 - EP); **F04B 47/04** (2013.01 - EP)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015009452 A1 20150122; CA 2917847 A1 20150122; EA 201690234 A1 20160630; EP 3022440 A1 20160525; EP 3022440 A4 20170308; JP 2015021493 A 20150202; MX 2016000548 A 20160808

DOCDB simple family (application)
US 2014045233 W 20140702; CA 2917847 A 20140702; EA 201690234 A 20140702; EP 14826286 A 20140702; JP 2013217485 A 20131018; MX 2016000548 A 20140702