

Title (en)
WELL PUMPING SYSTEM AND METHOD

Title (de)
BOHRLOCHPUMPSYSTEM UND -VERFAHREN

Title (fr)
PROCÉDÉ ET SYSTÈME DE POMPAGE DE PUITS

Publication
EP 3173576 A1 20170531 (EN)

Application
EP 16199697 A 20161118

Priority
US 201514947839 A 20151120

Abstract (en)
A well pumping system can include an actuator that reciprocally displaces a rod string, a continuous position sensor that continuously detects a position of a member of the actuator, and a control system that modifies reciprocal displacement of the rod string by the actuator, in response to an output of the continuous position sensor. A well pumping method can include reciprocally displacing a rod string, continuously detecting a velocity profile with a continuous position sensor, and modifying the velocity profile while the rod string reciprocally displaces, in response to an output of the continuous position sensor.

IPC 8 full level
E21B 43/12 (2006.01)

CPC (source: EP US)
E21B 43/126 (2013.01 - EP US); **F04B 9/103** (2013.01 - US); **F04B 19/22** (2013.01 - US); **F04B 47/02** (2013.01 - US);
F04B 49/12 (2013.01 - EP US); **F04B 49/20** (2013.01 - US); **F04B 49/22** (2013.01 - US); **F04B 53/16** (2013.01 - US);
F04B 2203/0409 (2013.01 - US); **F04B 2203/0903** (2013.01 - US)

Citation (applicant)
EVERITT, T.A.; JENNINGS, J.W.: "An Improved Finite-Difference Calculation of Downhole Dynamometer Cards for Sucker-Rod Pumps", SPE, vol. 18189, February 1992 (1992-02-01)

Citation (search report)
• [X] US 5281100 A 19940125 - DIEDERICH RICHARD E [US]
• [X] US 2014294603 A1 20141002 - BEST LARRY D [US]
• [X] WO 2013063591 A2 20130502 - WEATHERFORD LAMB, et al

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)
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DOCDB simple family (application)
EP 16199697 A 20161118; US 201514947839 A 20151120