

Title (en)

STRESS CALCULATIONS FOR SUCKER ROD PUMPING SYSTEMS

Title (de)

SPANNUNGSBERECHNUNGEN FÜR SAUGSTANGEN-PUMPENSYSTEME

Title (fr)

CALCULS DE CONTRAINTE POUR DES SYSTÈMES DE POMPAGE À TIGE DE POMPAGE

Publication

**EP 2963234 B1 20180606 (EN)**

Application

**EP 15174273 A 20150629**

Priority

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Abstract (en)

[origin: EP2963234A1] Techniques and apparatus are provided for stress calculations for sucker rod pumping systems. A method is provided for determining stress along a sucker rod string disposed in a wellbore. The method generally includes receiving, at a processor, measured rod displacement and rod load data for the sucker rod string, wherein the sucker rod string comprises a plurality of sections; and calculating stress values at a plurality of finite difference nodes for at least one of the plurality of sections based, at least in part, on the measured rod displacement and rod load data.

IPC 8 full level

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CPC (source: EP US)

**E21B 43/127** (2013.01 - EP US); **E21B 47/009** (2020.05 - EP US)

Cited by

CN106437682A; CN109538190A; CN113027387A; CN116976025A; US11619225B2; WO2018026706A1

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