



US009410419B2

(12) **United States Patent**  
**Coles**

(10) **Patent No.:** **US 9,410,419 B2**  
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **DEVICE FOR MEASURING AND TRANSMITTING DOWNHOLE TENSION**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 436 days.

(21) Appl. No.: **14/037,454**

(22) Filed: **Sep. 26, 2013**

(65) **Prior Publication Data**

US 2015/0083408 A1 Mar. 26, 2015

(51) **Int. Cl.**

**E21B 47/12** (2012.01)  
**E21B 47/00** (2012.01)  
**E21B 49/00** (2006.01)  
**E21B 23/14** (2006.01)  
**E21B 23/03** (2006.01)

(52) **U.S. Cl.**

CPC ..... **E21B 47/00** (2013.01); **E21B 23/14** (2013.01)

(58) **Field of Classification Search**

CPC ..... **E21B 47/00**  
See application file for complete search history.

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(57) **ABSTRACT**

A system is disclosed that includes a tool string including one or more perforating guns, a conveyance operably coupled to the tool string at a socket coupling location and configured to help convey the tool string downhole, a load-measuring device arranged on the tool string and including one or more tension sensors configured to measure tensile load on the conveyance, the load-measuring device further including communication equipment capable of transmitting one or more uphole signals, wherein the one or more uphole signals includes measurement signals corresponding to the tensile load, and a computer system locatable at or near the surface location and communicably coupled to the tool string, the computer system being configured to receive and process the one or more uphole signals and further configured to transmit one or more downhole signals to the tool string to operate the one or more perforating guns.

**18 Claims, 2 Drawing Sheets**

