



US007775572B2

(12) **United States Patent**
Slack

(10) **Patent No.:** **US 7,775,572 B2**
(45) **Date of Patent:** **Aug. 17, 2010**

(54) **GRIPPING TOOL WITH FLUID GRIP ACTIVATION**

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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 0 days.

(21) Appl. No.: **12/332,247**

(22) Filed: **Dec. 10, 2008**

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(65) **Prior Publication Data**

US 2009/0146441 A1 Jun. 11, 2009

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Related U.S. Application Data

(60) Provisional application No. 61/012,730, filed on Dec. 10, 2007.

(57) **ABSTRACT**

A gripping tool has at least one body, including an associated load adaptor adapted to be connected to and interact with one of a drive head or reaction frame. A gripping assembly, carried by the body, has a grip surface adapted to move from a retracted position to an engaged position to radially engage one of an interior surface or an exterior surface of a work piece upon relative axial displacement of the body relative to the grip surface in at least one axial direction. A fluid activated grip activation assembly acts between the at least one body and the grip surface. Axial movement of the load adaptor displaces fluid into a fluid chamber between the at least one body and the grip surface to create relative axial displacement of the at least one body relative to the grip surface.

(51) **Int. Cl.**

E21B 19/10 (2006.01)

(52) **U.S. Cl.** **294/86.15**

(58) **Field of Classification Search** 294/86.15, 294/86.1, 86.14; 166/85.5

See application file for complete search history.

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6 Claims, 4 Drawing Sheets

