

**IPR2013-00231**  
**U.S. PATENT NO. 8,079,413**

**TRIAL HEARING**

**MAY 8, 2014**

**UNITED STATES PATENT  
TRIAL AND APPEAL BOARD**

Patent Owner Magnum Oil Tool

## *Petitioner's Cited Prior Art*

- U.S. Patent Publication 2007/0151722 ("*Leh*")
- U.S. Patent No. 4,437,516 ("*Cockrell*")
- U.S. Patent No. 4,595,052 ("*Kristiansen*")
- U.S. Patent No. 6,708,768 ("*Slup*")
- U.S. Patent No. 5,224,540 ("*Streich*")
- U.S. Patent No. 7,350,582 ("*McKeachnie*")

*Source: Petition for Inter Partes Rev*

## *Instituted Grounds of Review*

- A. Claims 1-3, 5-8, 12, and 13 as unpatenable over the combination of *Lehr, Cockrell, and Kristiansen*
- B. Claims 4 and 9-11 as unpatenable over the combination of *Cockrell, Kristiansen, and Slup*
- C. Claims 14 and 16 as unpatentable over the combination of *Cockrell, Kristiansen, and Streich*
- D. Claim 15 as unpatenable over the combination of *Lehr, Cockrell, Kristiansen, Streich, and McKeachnie*
- E. Claims 17-19 as unpatenable over the combination of *Lehr, Cockrell, Kristiansen, Slup, and Streich*
- F. Claim 20 as unpatentable over the combination of *Lehr, Cockrell, Kristiansen, Slup, Streich, and McKeachnie*

Source: De

# U.S. Patent No. 8,079,413 ("413 Patent")

US008079413B2

**United States Patent**  
**Frazier**

(10) Patent No.: **US 8,079,413 B2**  
(45) Date of Patent: **\*Dec. 20, 2011**

(54) **BOTTOM SET DOWNHOLE PLUG**

(75) Inventor: **W. Lynn Frazier, Corpus Christi, TX (US)**

(73) Assignee: **W. Lynn Frazier, Corpus Christi, TX (US)**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/194,871**

(22) Filed: **Jul. 29, 2011**

(65) **Prior Publication Data**  
US 2011/0277087 A1 Nov. 17, 2011

**Related U.S. Application Data**

(63) Continuation-in-part of application No. 12/317,497, filed on Dec. 23, 2008.

(51) Int. Cl. (2006.01) **E21B 33/29**

(52) U.S. Cl. (2006.01) **166/124; 165/133; 165/135**

(58) **Field of Classification Search** 166/123, 166/124, 135, 136, 140  
See application file for complete search history.

(56) **References Cited**

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**Assistant Examiner** — Robert E. Puffer  
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**ABSTRACT**

(57) A plug for isolating a well bore. The plug can include a body having a first end and a second end, wherein the body is formed from one or more overlapping materials and adapted to receive a setting tool through the first end thereof, at least one malleable element disposed about the body, at least one slip disposed about the body, and one or more shearable threads disposed on an inner surface of the body, adjacent the second end thereof, wherein the one or more shearable threads are adapted to receive at least a portion of a setting tool that enters the body through the first end thereof, and wherein the one or more shearable threads are adapted to engage the setting tool when disposed through the body and adapted to release the setting tool when exposed to a predetermined axial force.

20 Claims, 7 Drawing Sheets

1 of 18

**BOTTOM SET DOWNHOLE PLUG**

**Date of Patent: \*Dec. 20, 2011**

**Inventor: W. Lynn Frazier, Corpus Christi, TX (US)**

**Filed: Jul. 29, 2011**

**Continuation-in-part of application No. 12/317,497, filed on Dec. 23, 2008**

Source: Ex. MOTI[3001], U.S. Patent

## *Lehr, Cockrell, and Kristiansen*

- Base claims 1 and 7 are patentable over the combination of *Lehr, Cockrell, and Kristia*

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