



US009669509B2

(12) **United States Patent**
Thomas et al.

(10) **Patent No.:** **US 9,669,509 B2**
(45) **Date of Patent:** ***Jun. 6, 2017**

(54) **METHODS FOR EXTERNAL CLEANING AND INSPECTION OF TUBULARS**

(71) Applicant: **Thomas Engineering Solutions & Consulting, LLC**, New Iberia, LA (US)

(72) Inventors: **William C. Thomas**, Lafayette, LA (US); **William J. Thomas, III**, New Iberia, LA (US); **Perry J. DeCuir, Jr.**, Rochester Hills, MI (US); **Jeffrey R. Wheeler**, Winchester, KY (US)

(73) Assignee: **Thomas Engineering Solutions & Consulting, LLC**, New Iberia, LA (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.: **14/040,650**

(22) Filed: **Sep. 28, 2013**

(65) **Prior Publication Data**

US 2014/0090666 A1 Apr. 3, 2014

Related U.S. Application Data

(60) Provisional application No. 61/707,780, filed on Sep. 28, 2012, provisional application No. 61/799,425, filed on Mar. 15, 2013.

(51) **Int. Cl.**
B24B 27/033 (2006.01)
B24B 51/00 (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC **B24B 27/033** (2013.01); **B08B 9/023** (2013.01); **B24B 5/04** (2013.01); **B24B 5/36** (2013.01);
(Continued)

(58) **Field of Classification Search**

None
See application file for complete search history.

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Primary Examiner — Nicole Blan

Assistant Examiner — Pradhuman Parihar

(74) *Attorney, Agent, or Firm* — Zeman-Mullen & Ford, LLP

(57) **ABSTRACT**

Methods are disclosed for performing operations such as cleaning, inspection or data acquisition on an external surface of a hollow cylindrical tubular. Preferred embodiments include providing a fluid dispenser and an abrasion assembly on a buggy that travels up and down the length of the tubular as the tubular rotates. The fluid dispenser includes nozzles that dispense cleaning fluids onto the tubular's external surface. The abrasion assembly includes a swivel brush and a brush train providing different styles of abrasion cleaning of the tubular's external surface. Preferred embodiments of the buggy also carry a range finding laser generating samples of the distance from the laser to a sampled point on the tubular's external surface. The laser samples are pro-

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