

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT7656781

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
CORE LABORATORIES LP	11/18/2022
OWEN OIL TOOLS LP	11/18/2022
RECEIVING PARTY DATA	
Name:	BANK OF AMERICA, N.A., AS COLLATERAL AGENT
Street Address:	900 W TRADE ST., GATEWAY VILLAGE-900 BLDG
Internal Address:	MAIL CODE: NC1-026-06-09
City:	CHARLOTTE
State/Country:	NORTH CAROLINA
Postal Code:	28255
PROPERTY NUMBERS Total: 47	
Property Type	Number
Patent Number:	6962203
Patent Number:	7079242
Patent Number:	7228896
Patent Number:	7347260
Patent Number:	7469750
Patent Number:	7516791
Patent Number:	7542139
Patent Number:	7610969
Patent Number:	7621332
Patent Number:	7913603
Patent Number:	7913761
Patent Number:	8076158
Patent Number:	8079296
Patent Number:	8459186
Patent Number:	8843319
Patent Number:	9222331
Patent Number:	9689240
Patent Number:	9759048

Property Type	Number
Patent Number:	9890604
Patent Number:	9903185
Patent Number:	10066919
Patent Number:	10526174
Patent Number:	10731430
Patent Number:	10753184
Patent Number:	10908101
Patent Number:	10934815
Patent Number:	11162335
Patent Number:	6640899
Patent Number:	7059404
Patent Number:	6659175
Patent Number:	9682848
Patent Number:	6554065
Patent Number:	6655291
Patent Number:	7387162
Patent Number:	7552766
Patent Number:	8033332
Patent Number:	8141639
Patent Number:	8763532
Patent Number:	9982517
Patent Number:	6276690
Patent Number:	10422195
Application Number:	17617855
Application Number:	63166779
Application Number:	63182647
Application Number:	63299372
Application Number:	17769695
Application Number:	17312530

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 7132211420

Email: docketing@bracewell.com

Correspondent Name: BRACEWELL LLP

Address Line 1: P. O. BOX 61389

Address Line 4: HOUSTON, TEXAS 77002

ATTORNEY DOCKET NUMBER:	0060877.091216.
NAME OF SUBMITTER:	CONSTANCE G. RHEBERGEN
SIGNATURE:	/ constance g. rhebergen /
DATE SIGNED:	11/21/2022
Total Attachments: 7 source=Pat_Security_Agmt#page1.tif source=Pat_Security_Agmt#page2.tif source=Pat_Security_Agmt#page3.tif source=Pat_Security_Agmt#page4.tif source=Pat_Security_Agmt#page5.tif source=Pat_Security_Agmt#page6.tif source=Pat_Security_Agmt#page7.tif	

PATENT SECURITY AGREEMENT

Patent Security Agreement, dated as of November 18, 2022, by Core Laboratories LP, a Delaware limited partnership and Owen Oil Tools LP, a Delaware limited partnership (individually, a “Pledgor”, and, collectively, the “Pledgors”), in favor of Bank of America, N.A., in its capacity as Collateral Agent pursuant to the Credit Agreement (in such capacity, the “Collateral Agent”).

WITNESSETH:

WHEREAS, the Pledgors are party to a Pledge and Security Agreement of even date herewith (as amended, amended and restated, supplemented or otherwise modified from time to time, the “Pledge and Security Agreement”) in favor of the Collateral Agent pursuant to which the Pledgors are required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and to induce the Collateral Agent, for the benefit of the Secured Parties, to enter into the Credit Agreement, the Pledgors hereby agree with the Collateral Agent as follows:

SECTION. 1 Defined Terms. Unless otherwise defined herein, terms defined in the Pledge and Security Agreement and used herein have the meaning given to them in the Pledge and Security Agreement.

SECTION. 2 Grant of Security Interest in Patent Collateral. Each Pledgor hereby pledges and grants to the Collateral Agent for the benefit of the Secured Parties a lien on and security interest in and to all of its right, title and interest in, to and under all the following Collateral of such Pledgor:

- (a) Patents of such Pledgor listed on Schedule I attached hereto; and
- (b) all Proceeds of any and all of the foregoing (other than Excluded Property).

SECTION. 3 Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Collateral Agent pursuant to the Pledge and Security Agreement and Pledgors hereby acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Pledge and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Pledge and Security Agreement, the provisions of the Pledge and Security Agreement shall control unless the Collateral Agent shall otherwise determine.

SECTION. 4 Termination. Upon the termination of the Pledge and Security Agreement pursuant to Section 11.4 of the Pledge and Security Agreement, the Collateral Agent shall execute, acknowledge, and deliver to the Pledgors an instrument in writing in recordable form releasing the collateral pledge, grant, assignment, lien and security interest in the Patents under this Patent Security Agreement.

SECTION. 5 Counterparts. This Patent Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Patent Security Agreement by signing and delivering one or more counterparts.

SECTION. 6 Governing Law. This Patent Security Agreement and the transactions contemplated hereby, and all disputes between the parties under or relating to this Patent Security Agreement or the facts or circumstances leading to its execution, whether in contract, tort or otherwise, shall be construed in accordance with and governed by the laws (including statutes of limitation) of the State of Texas, without regard to conflicts of law principles that would require the application of the laws of another jurisdiction.

SECTION. 7 Usury; Indemnification; Entire Agreement. Sections 11.1 and 11.15 of the Pledge and Security Agreement are incorporated herein, *mutatis mutandis*, as if a part hereof.


[signature page follows]

IN WITNESS WHEREOF, each Pledgor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

CORE LABORATORIES LP,
as a Pledgor

By: Core Laboratories LLC, its General Partner

By: 

Name: Kevin Daniels

Title: Treasurer

OWEN OIL TOOLS LP,
as a Pledgor

By: Core Laboratories LLC, its General Partner

By: 

Name: Kevin Daniels

Title: Treasurer

AGREED AND ACCEPTED:

BANK OF AMERICA, N.A.,
as Collateral Agent

By: Melissa Mullis
Name: Melissa Mullis
Title: Vice President

**SCHEDULE I
TO PATENT SECURITY AGREEMENT**

Patent Registrations:

Name of Grantor	Patent Description	Patent Number	File Date
Owen Oil Tools LP	One Trip Completion Process	6962203	March 24, 2003
Core Laboratories LP	Method and Apparatus for Determining Characteristics of Particles in a Fluid Sample	7079242	December 19, 2003
Owen Oil Tools LP	Ribbed Sealing Element and Method of Use	7228896	January 5, 2005
Core Laboratories LP	Method for Determining Tracer Concentration in Oil and Gas Production Fluids	7347260	March 25, 2008
Owen Oil Tools LP	Expandable Seal	7469750	September 19, 2005
Owen Oil Tools LP	Configurable Wellborne Zone Isolation System and Related Methods	7516791	May 24, 2007
Core Laboratories LP	Method and Apparatus for Determining Characteristics of Particles in a Fluid Sample	7542139	July 17, 2006
Owen Oil Tools LP	Perforating Methods And Devices For High Wellbore Pressure Applications	7610969	May 24, 2007
Owen Oil Tools LP	Apparatus and Method for Perforating and Fracturing a Subterranean Formation	7621332	October 18, 2005
Owen Oil Tools LP	Device and Methods for Firing Perforating Guns	7913603	March 1, 2005
Owen Oil Tools LP	System and Method for Enhanced Wellbore Perforations	7913761	January 20, 2009
Core Laboratories LP	Enhanced Process for Preparing Core Sample Thin Sections	8076158	May 5, 2008
Owen Oil Tools LP	Novel Device and Methods for Firing Perforating Guns	8079296	February 26, 2009
Owen Oil Tools LP	Devices And Methods For Perforating A Wellbore	8459186	March 18, 2009
Core Laboratories LP	Systems and Methods for the Determination of Formation Water Resistivity and Conductivity	8843319	October 14, 2011
Owen Oil Tools LP	System and Method for Enhanced Sealing of Well Tubulars	9222331	February 21, 2013
Owen Oil Tools LP	Firing Mechanism with Time Delay and Metering System	9689240	December 17, 2014
Owen Oil Tools LP	Perforating Gun for Underbalanced Perforating	9759048	June 29, 2015
Owen Oil Tools LP	Devices and Related Methods for Actuating Wellbore Tools with a Pressurized Gas	9890604	March 26, 2015
Owen Oil Tools LP	Perforating Gun with Eccentric Rotatable Charge Tube	9903185	February 12, 2015
Owen Oil Tools LP	Oilfield Side Initiation Block Containing Booster	10066919	June 7, 2016

Name of Grantor	Patent Description	Patent Number	File Date
Core Laboratories LP	System and Method for a Self-Contained Lifting Device	10526174	September 26, 2016
Owen Oil Tools LP	A Perforating Gun	10731430	October 3, 2017
Owen Oil Tools LP	Differential Pressure Firing Heads for Wellbore Tools and Related Materials	10753184	October 5, 2018
Core Laboratories LP	System and Method for Analyzing Subsurface Core Samples	10908101	November 16, 2018
Owen Oil Tools LP	Signal Transfer System for Actuating Downhole Tools and Related Materials	10934815	October 5, 2018
Owen Oil Tools LP	Safe Firing Head for Deviated Wellbores	11162335	May 9, 2019
Owen Oil Tools LP	Apparatus and Methods for Jarring	6640899	October 18, 2001
Core Laboratories LP	VARIABLE INTENSITY MEMORY GRAVEL PACK IMAGING APPARATUS AND METHOD	7059404	April 28, 2003
Core Laboratories LP	METHOD FOR DETERMINING THE EXTENT OF RECOVERY OF MATERIALS INJECTED INTO OIL WELLS DURING OIL AND GAS EXPLORATION AND PRODUCTION	6659175	May 23, 2002
Core Laboratories LP	SYSTEM AND METHOD FOR A SELF-CONTAINED LIFTING DEVICE	9682848	September 4, 2014
Core Laboratories LP (successor in interest to Core Laboratories, Inc.)	MEMORY GRAVEL PACK IMAGING APPARATUS AND METHOD	6554065	November 22, 1999
Owen Oil Tools LP	SHAPED-CHARGE LINER	6655291	February 26, 2002
Owen Oil Tools LP	APPARATUS AND METHOD FOR SELECTIVE ACTUATION OF DOWNHOLE TOOLS	7387162	January 10, 2006
Owen Oil Tools LP	RIBBED SEALING ELEMENT AND METHOD OF USE	7552766	June 12, 2007
Owen Oil Tools LP	APPARATUS AND METHOD FOR PERFORATING AND FRACTURING A SUBTERRANEAN FORMATION	8033332	November 23, 2009
Owen Oil Tools LP	DETONATOR FOR MATERIAL-DISPENSING WELLBORE TOOLS	8141639	January 8, 2010
Owen Oil Tools LP	DEVICES AND METHODS FOR PERFORATING A WELLBORE	8763532	June 11, 2013
Owen Oil Tools LP	COILED TUBING CONNECTOR FOR DOWNHOLE TOOLS	9982517	June 25, 2015
Owen Oil Tools LP	RIBBED SEALING ELEMENT AND METHOD OF USE	6276690	April 30, 1999
Owen Oil Tools LP	PERFORATING GUN	10422195	April 1, 2016

Patent Applications:

Name of Grantor	Patent Application	Application Filing Date	Application Serial Number
Owen Oil Tools LP	Perforating Gun with Detonation Module	December 9, 2021	17/617855
Owen Oil Tools LP	Alignment Assembly for Downhole Tools and Related Methods	May 1, 2020	PCT/US2021/030490
Core Laboratories LP	Novel Methods and Related Systems to Estimate Water Content of Subterranean Core Samples	March 26, 2021	63/166779
Core Laboratories LP	Pulsed Neutron Apparatus And Method For Using Same To Analyze Core Samples	April 30, 2021	63/182647
Owen Oil Tools LP	Wellbore Tool for Dispensing Sealants and Related Methods	January 13, 2022	63/299372
Owen Oil Tools LP	Perforating and Tracer System for Oilfield Applications	October 18, 2019	17/769695
Owen Oil Tools LP	Perforating Gun with Switch Cartridge	June 10,2021	17/312530