

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6085153

| | |
|------------------------------|-------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | SECURITY INTEREST |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| VERTICE OIL TOOLS, INC. | 04/29/2020 |

RECEIVING PARTY DATA

| | |
|------------------------|--------------------------|
| Name: | SILICON VALLEY BANK |
| Street Address: | 3003 TASMAN DRIVE, HF150 |
| City: | SANTA CLARA |
| State/Country: | CALIFORNIA |
| Postal Code: | 95054 |

PROPERTY NUMBERS Total: 26

| Property Type | Number |
|---------------------|----------|
| Patent Number: | 10619452 |
| Patent Number: | 10513918 |
| Patent Number: | 10502026 |
| Patent Number: | 10435958 |
| Patent Number: | 10400555 |
| Patent Number: | 10400521 |
| Patent Number: | 10325128 |
| Patent Number: | 10352124 |
| Patent Number: | 10260314 |
| Application Number: | 16569604 |
| Application Number: | 16517606 |
| Application Number: | 15859670 |
| Application Number: | 16279327 |
| Application Number: | 16012336 |
| Application Number: | 16690967 |
| Application Number: | 16560574 |
| Application Number: | 16256804 |
| Application Number: | 16552722 |
| Application Number: | 16670378 |
| Application Number: | 16523692 |

PATENT

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16527714 |
| Application Number: | 16797489 |
| Application Number: | 16528831 |
| Application Number: | 16550137 |
| Application Number: | 16571112 |
| Application Number: | 16705646 |

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: 5614142116
Email: tbinder@vplawgroup.com
Correspondent Name: TATIANA BINDER
Address Line 1: 305 CAMBRIDGE DR
Address Line 4: LYNCHBURG, VIRGINIA 24502

| | |
|---------------------------|-----------------|
| NAME OF SUBMITTER: | TATIANA BINDER |
| SIGNATURE: | /TatianaBinder/ |
| DATE SIGNED: | 04/30/2020 |

Total Attachments: 10

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement ("Agreement") is entered into as of April 29, 2020, by and between SILICON VALLEY BANK ("Bank") and Vertice Oil Tools, Inc. ("Grantor").

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodation to Grantor (the "Loans") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor dated as of the date hereof (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks, Patents, and Mask Works (as each term is described below) to secure the obligations of Grantor under the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

1. Grant of Security Interest. To secure its obligations under the Loan Agreement, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its intellectual property (all of which shall collectively be called the "Intellectual Property Collateral"), including, without limitation, the following:

(a) Any and all copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the "Copyrights");

(b) Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

(c) Any and all design rights that may be available to Grantor now or hereafter existing, created, acquired or held;

(d) All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and

continuations-in-part of the same, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the “Patents”);

(e) Any trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the “Trademarks”);

(f) All mask works or similar rights available for the protection of semiconductor chips, now owned or hereafter acquired, including, without limitation those set forth on Exhibit D attached hereto (collectively, the “Mask Works”);

(g) Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) All amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

2. Recordation. Grantor authorizes the Commissioner for Patents, the Commissioner for Trademarks and the Register of Copyrights and any other government officials to record and register this Agreement upon request by Bank.

Grantor hereby authorizes Bank to (a) modify this Agreement unilaterally by amending the exhibits to this Agreement to include any Intellectual Property Collateral which Grantor obtains subsequent to the date of this Agreement and (b) file a duplicate original of this Agreement containing amended exhibits reflecting such new Intellectual Property Collateral.

3. Loan Documents. This Agreement has been entered into pursuant to and in conjunction with the Loan Agreement, which is hereby incorporated by reference. The provisions of the Loan Agreement shall supersede and control over any conflicting or inconsistent provision herein. The rights and remedies of Bank with respect to the Intellectual Property Collateral are as provided by the Loan Agreement and related documents, and nothing in this Agreement shall be deemed to limit such rights and remedies.

4. Execution in Counterparts. This Agreement may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or in electronic (i.e., “pdf” or “tif” format) shall be effective as delivery of a manually executed counterpart of this Agreement.

5. Successors and Assigns. This Agreement will be binding on and shall inure to the benefit of the parties hereto and their respective successors and assigns.

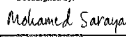
6. Governing Law. This Agreement and any claim, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement and the transactions contemplated hereby and thereby shall be governed by, and construed in accordance with, the laws of the United States and the State of California, without giving effect to any choice or conflict of law provision or rule (whether of the State of California or any other jurisdiction).

[Signature page follows.]

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

VERTICE OIL TOOLS, INC.

DocuSigned by:

By: Mohamed Saraya
Title: CHIEF EXECUTIVE OFFICE

BANK:

SILICON VALLEY BANK


DocuSigned by:

By: Josh wagner
Title: Vice President

EXHIBIT A

Copyrights

| | <u>Description</u> | Registration/ Application <u>Number</u> | Registration/ Application <u>Date</u> |
|------|--------------------|---|---|
| NONE | | | |

EXHIBIT B

Patents

| <u>Description</u> | <u>Registration/ Application Number</u> | <u>Registration/ Application Date</u> |
|--|---|---|
| METHODS AND SYSTEMS FOR EMBEDDING TRACERS WITHIN A DOWNHOLE TOOL | 16/569604 | September 12, 2019 |
| METHODS AND SYSTEMS FOR CONTROLLING SUBSTANCES FLOWING THROUGH IN AN INNER DIAMETER OF A TOOL | 16/517606 | July 21, 2019 |
| METHODS AND SYSTEMS FOR A FRAC SLEEVE | 15/859670 | January 1, 2018 |
| METHODS AND SYSTEMS FOR A PIN POINT FRAC SLEEVES SYSTEM | 16/279327 | February 19, 2019 |
| METHODS AND SYSTEMS FOR A FRAC SLEEVE | 16/012336 | June 19, 2018 |
| Methods and systems for creating an interventionless conduit to formation in wells with cased hole | 10,619,452 | April 14, 2020 |
| Methods and systems for intervention less well monitoring | 10,513,918 | December 24, 2019 |
| Methods and systems for fracing | 10,502,026 | December 10, 2019 |

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| Methods and systems for disconnecting and reconnecting casing | 10,435,958 | October 8, 2019 |
| Methods and systems for controlling substances flowing Through in an inner diameter of a tool | 10,400,555 | September 3, 2019 |
| Methods and systems for disconnecting casing | 10,400,521 | September 3, 2019 |
| Methods and systems for fracing | 10,352,128 | July 16, 2019 |
| Methods and systems for a bridge plug | 10,352,124 | July 16, 2019 |
| Methods and systems for a pin point frac sleeves system | 10,260,314 | April 16, 2019 |
| TOE SLEEVE | 16/690967 | November 21, 2019 |
| TEMPORARY SEAL WITHIN A WELLBORE | 16/560574 | September 4, 2019 |
| METHODS AND SYSTEMS FOR DISCONNECTING CASING | 16/256804 | January 24, 2019 |
| METHODS AND SYSTEMS FOR DISCONNECTING | 16/552722 | August 27, 2019 |
| FRAC PLUG | 16/670378 | October 31, 2019 |
| DISSOLVALBLE FLOAT PLUG SYSTEM | 16/523692 | July 26, 2019 |
| TOE SLEEVE/OPEN BOTTOM END | 16/527714 | July 31, 2019 |

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|---------------------------------------|-----------|--------------------|
| TOE SLEEVE/OPEN BOTTOM END | 16/797489 | February 21, 2020 |
| FRAC PLUG + ATMOSP CHAMBER | 16/528831 | August 1, 2019 |
| ANTI-MATTER IDEA, ELIMINATE FRAC PLUG | 16/550137 | August 23, 2019 |
| V-RELEASE WITH PACK-OFF SYSTEM | 16/571112 | September 14, 2019 |
| FISHING TOOL | 16/705646 | December 6, 2019 |

EXHIBIT C

Trademarks

| | <u>Description</u> | Registration/ Application <u>Number</u> | Registration/ Application <u>Date</u> |
|------|--------------------|---|---|
| NONE | | | |

EXHIBIT D

Mask Works

| | <u>Description</u> | Registration/ Application <u>Number</u> | Registration/ Application <u>Date</u> |
|------|--------------------|---|---|
| NONE | | | |