

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7768536

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	PATENT SECURITY AGREEMENT (NOTES)

CONVEYING PARTY DATA

Name	Execution Date
NINE ENERGY SERVICE, INC.	01/30/2023
NINE DOWNHOLE TECHNOLOGIES, LLC	01/30/2023
MAGNUM OIL TOOLS INTERNATIONAL, LTD.	01/30/2023

RECEIVING PARTY DATA

Name:	U.S. BANK TRUST COMPANY, NATIONAL ASSOCIATION, AS COLLATERAL AGENT
Street Address:	333 COMMERCE STREET
Internal Address:	SUITE 900, ATTN: WALLY JONES
City:	NASHVILLE
State/Country:	TENNESSEE
Postal Code:	37201

PROPERTY NUMBERS Total: 68

Property Type	Number
Patent Number:	10400535
Patent Number:	8113276
Patent Number:	8336635
Patent Number:	9004160
Patent Number:	9915114
Patent Number:	8893780
Patent Number:	10487615
Patent Number:	11015415
Patent Number:	11365600
Patent Number:	11371312
Patent Number:	11459839
Patent Number:	11149522
Patent Number:	D703698
Patent Number:	8033333
Patent Number:	8079413
Patent Number:	8307892
Patent Number:	8899317

PATENT

Property Type	Number
Patent Number:	9194209
Patent Number:	9217319
Patent Number:	9291031
Patent Number:	9309744
Patent Number:	9388662
Patent Number:	9441448
Patent Number:	9500061
Patent Number:	9506309
Patent Number:	9587475
Patent Number:	D657807
Patent Number:	D672794
Patent Number:	D673182
Patent Number:	D673183
Patent Number:	D684612
Patent Number:	D694280
Patent Number:	D694281
Patent Number:	D694282
Patent Number:	D697088
Patent Number:	D698370
Patent Number:	D703713
Patent Number:	D705821
Patent Number:	9109428
Patent Number:	9127527
Patent Number:	9163477
Patent Number:	9181772
Patent Number:	10337279
Patent Number:	10352125
Patent Number:	10465462
Patent Number:	10465468
Patent Number:	10385649
Patent Number:	11098556
Patent Number:	10107070
Patent Number:	10887153
Patent Number:	10458201
Patent Number:	9850736
Patent Number:	9739114
Patent Number:	9850738
Patent Number:	7861785

Property Type	Number
Patent Number:	9062522
Patent Number:	9121240
Patent Number:	10260308
Patent Number:	10662732
Patent Number:	10871053
Application Number:	17233215
Application Number:	17648912
Application Number:	17662816
Application Number:	17808051
Application Number:	17410763
Application Number:	16259910
Application Number:	17809252
Application Number:	17504294

CORRESPONDENCE DATA

Fax Number: (212)455-2502

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: 2124552592

Email: jnull@stblaw.com

Correspondent Name: COURTNEY WELSHIMER

Address Line 1: 425 LEXINGTON AVENUE

Address Line 4: NEW YORK, NEW YORK 10017

ATTORNEY DOCKET NUMBER: 509265/2435

NAME OF SUBMITTER: J. JASON MULL

SIGNATURE: /J. Jason Mull/

DATE SIGNED: 01/30/2023

Total Attachments: 13

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GRANT OF SECURITY INTEREST IN PATENT RIGHTS

This GRANT OF SECURITY INTEREST IN PATENT RIGHTS (“Agreement”), effective as of January 30, 2023 is made by NINE ENERGY SERVICE, INC., a Delaware corporation, located at 2001 Kirby Drive, Suite 200, Houston, Texas 77019 (the “Issuer”), NINE DOWNHOLE TECHNOLOGIES, LLC, a Delaware limited liability company, located at 2001 Kirby Drive, Suite 200, Houston, Texas 77019 (“Nine Downhole”) and MAGNUM OIL TOOLS INTERNATIONAL LTD., a Texas limited partnership, located at 2001 Kirby Drive, Suite 200, Houston, Texas 77019 (“Magnum” and, together with the Issuer and Nine Downhole, the “Grantors” and each a “Grantor”), in favor of U.S. BANK TRUST COMPANY, NATIONAL ASSOCIATION, as collateral agent (in such capacity, the “Collateral Agent”) for the ratable benefit of the Secured Parties (as defined in the Security Agreement referred to below).

W I T N E S S E T H:

WHEREAS, the Issuer, each Domestic Subsidiary (as defined in the Indenture) of the Issuer party thereto from time to time and U.S. Bank Trust Company, National Association, as trustee and Collateral Agent, have entered into the Indenture dated as of January 30, 2023 (the “Indenture”), pursuant to which the Issuer has issued its 13.000% Senior Secured Notes due 2028 (the “Notes”) and the other grantors party thereto have guaranteed the Notes;

WHEREAS, the Grantors, Nine Energy Canada Inc., the Collateral Agent and the other parties party thereto from time to time have entered into the certain Intercreditor Agreement dated as of January 30, 2023 (as amended, amended and restated, supplemented or otherwise modified from time to time) with JPMorgan Chase Bank, N.A., as ABL representative, in connection with the issuance of the Notes;

WHEREAS, in connection with the Indenture and as a condition precedent to that certain underwriting agreement, dated as of January 19, 2023, by and among the Issuer, the guarantors listed in Schedule 2 thereto, the Collateral Agent and J.P. Morgan Securities LLC, as representative of the several underwriters listed in Schedule 1 thereto, each Grantor has executed and delivered a Pledge and Security Agreement, dated as of January 30, 2023, in favor of the Collateral Agent (as amended, supplemented, amended and restated or otherwise modified from time to time, the “Security Agreement”); and

WHEREAS, pursuant to the Security Agreement, each Grantor has duly authorized the execution, delivery and performance of this Agreement.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor agrees as follows:

SECTION 1. Definitions. Unless otherwise defined herein or the context otherwise requires, terms used in this Agreement, including its preamble and recitals, have the meanings provided or provided by reference in the Indenture or the Security Agreement, as applicable.

SECTION 2. Grant of Security Interest. Each Grantor hereby pledges, hypothecates assigns, charges, mortgages, delivers, and transfers to the Collateral Agent, for the ratable benefit of each Secured Party, and hereby grants to the Collateral Agent, for the ratable benefit of each Secured Party, a continuing security interest in all of such Grantor’s right, title and interest in, to and under, all Patent Collateral (as that term is defined in the Security Agreement), including, without limitation, those patents and patent applications listed on Schedule A attached hereto, as collateral security for the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of such Grantor’s Secured Obligations.

SECTION 3. Purpose. This Agreement has been executed and delivered by each Grantor for the purpose of recording the grant of security interest herein with the United States Patent and Trademark Office and the Canadian Intellectual Property Office. The security interest granted hereby has been granted to the Collateral Agent in connection with the Security Agreement and is expressly subject to the terms and conditions thereof. The Security Agreement (and all rights, remedies, indemnities and other protections afforded to the Collateral Agent thereunder) shall remain in full force and effect in accordance with its terms.

SECTION 4. Acknowledgment. Each Grantor does hereby further acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral granted hereby are more fully set forth in the Indenture and the Security Agreement, the terms and provisions of which (including the remedies provided for therein) are incorporated by reference herein as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

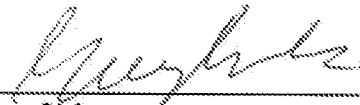
SECTION 5. Counterparts. This Agreement may be executed by the parties hereto in several counterparts, each of which shall be deemed to be an original and all of which shall constitute together but one and the same agreement. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or other electronic transmission shall be effective as delivery of a manually executed counterpart of this Agreement.

SECTION 6. Choice of Law. This Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of New York.

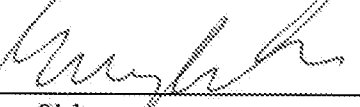
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IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

NINE ENERGY SERVICE, INC.

By: 
Name: Guy Sirkes
Title: Senior Vice President and Chief
Financial Officer

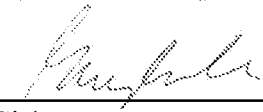
NINE DOWNHOLE TECHNOLOGIES, LLC

By: 
Name: Guy Sirkes
Title: Senior Vice President and Chief
Financial Officer

[Signature Page to Patent Security Agreement]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

MAGNUM OIL TOOLS INTERNATIONAL, LTD

By:  _____

Name: Guy Sirkes

Title: Senior Vice President and Chief
Financial Officer

U.S. BANK TRUST COMPANY, NATIONAL
ASSOCIATION,
as Collateral Agent

By: Wally Jones
Name: Wally Jones
Title: Vice President

Schedule A

U.S. Patents

Owner	Patent Description	Patent Number	Issue Date	Jurisdiction
NINE DOWNHOLE TECHNOLOGIES, LLC	Retrievable downhole tool	10,400,535	9/3/2019	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE APPARATUS WITH PACKER CUP AND SLIP	8,113,276	2/14/2012	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE APPARATUS WITH PACKER CUP AND SLIP	8,336,635	12/25/2012	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE TOOL APPARATUS WITH SLIP PLATE AND WEDGE	9,004,160	4/14/2015	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Retrievable Downhole Tool	9,915,114	3/13/2018	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE APPARATUS WITH PACKER CUP AND SLIP	8,893,780	11/25/2014	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Cup plug having a large flow-through inside diameter	10,487,615	11/26/2019	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Filament-reinforced composite material with load-aligned filament windings	11,015,415	5/25/2021	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Compact downhole tool	11,365,600	6/21/2022	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Cup plug having a large flow-through inside diameter	11,371,312	6/28/2022	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Sleeve for downhole tools	11,459,839	10/4/2022	United States

NINE DOWNHOLE TECHNOLOGIES, LLC	Plugging device	11,149,522	10/19/2021	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	LOWER SET INSERT WITH LOWER BALL SEAT FOR A DOWNHOLE PLUG	D703,698	4/29/2014	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE PERFORATION TOOL	8,033,333	12/984,514	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	BOTTOM SET DOWNHOLE PLUG	8,079,413	12/20/2011	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE INSERTS FOR DOWNHOLE PLUGS	8,307,892	11/13/2012	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DECOMPOSABLE PUMPDOWN BALL FOR DOWNHOLE PLUGS	8,899,317	12/2/2014	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	HYDRAULICALY FRACTURABLE DOWNHOLE VALVE ASSEMBLY AND METHOD FOR USING SAME	9,194,209	11/24/2015	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	HIGH-MOLECULAR-WEIGHT POLYGLYCOLIDES FOR HYDROCARBON RECOVERY	9,217,319	12/22/2015	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	ISOLATION TOOL	9,291,031	3/22/2016	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	BOTTOM SET DOWNHOLE PLUG	9,309,744	4/12/2016	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	SETTABLE WELL TOOL AND METHOD	9,388,662	7/12/2016	United States
NINE DOWNHOLE	DOWN HOLE TOOL HAVING IMPROVED	9,441,448	9/13/2016	United States

TECHNOLOGIES, LLC	SEGMENTED BACK UP RING			
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE TOOLS HAVING NON-TOXIC DEGRADABLE ELEMENTS AND METHODS OF USING THE SAME	9,500,061	11/22/2016	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE TOOLS HAVING NON-TOXIC DEGRADABLE ELEMENTS	9,506,309	11/29/2016	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE TOOLS HAVING NON-TOXIC DEGRADABLE AND THEIR METHODS OF USE	9,587,475	3/7/2017	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE INSERT FOR A DOWNHOLE TOOL	D657,807	4/17/2012	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE BRIDGE PLUG INSERT FOR A DOWNHOLE TOOL	D672,794	12/18/2012	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	LONG RANGE COMPOSITE DOWNHOLE PLUG	D673,182	12/25/2012	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	COMPACT COMPOSITE DOWNHOLE PLUG	D673,183	12/25/2012	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE CAGED BALL INSERT FOR A DOWNHOLE TOOL	D684,612	6/18/2013	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE INSERT FOR A DOWNHOLE PLUG	D694,280	11/26/2013	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	LOWER SET INSERT WITH A LOWER BALL SEAT FOR A DOWNHOLE PLUG	D694,281	11/26/2013	United States
NINE DOWNHOLE	LOWER SET INSERT FOR A DOWNHOLE	D694,282	11/26/2013	United States

TECHNOLOGIES, LLC	PLUG FOR USE IN A WELLBORE			
NINE DOWNHOLE TECHNOLOGIES, LLC	LOWER SET INSERT FOR A DOWNHOLE PLUG FOR USE IN A WELLBORE	D697,088	1/7/2014	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	LOWER SET CAGED BALL INSERT FOR A DOWNHOLE PLUG	D698,370	1/28/2014	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE CAGED BALL INSERT FOR A DOWNHOLE TOOL	D703,713	4/29/2014	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE INSERT FOR A DOWNHOLE PLUG	D705,821	5/27/2014	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE BRIDGE PLUGS AND METHODS FOR USING SAME	9,109,428	8/18/2015	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DECOMPOSABLE IMPEDIMENTS FOR DOWNHOLE TOOLS AND METHODS FOR USING SAME	9,127,527	9/8/2015	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	CONFIGURABLE DOWNHOLE TOOLS AND METHODS FOR USING SAME	9,163,477	13/488,890	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DECOMPOSABLE IMPEDIMENTS FOR DOWNHOLE PLUGS	9,181,772	11/10/2015	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DISSOLVABLE DOWNHOLE TOOLS COMPRISING BOTH DEGRADABLE POLYMER ACID AND DEGRADABLE METAL ALLOY ELEMENTS	10,337,279	7/2/2019	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE PLUG HAVING DISSOLVABLE METALLIC AND DISSOLVABLE ACID POLYMER ELEMENTS	10,352,125	7/16/2019	United States

NINE DOWNHOLE TECHNOLOGIES, LLC	ELECTRICALLY POWERED SETTING TOOL AND PERFORATING GUN	10,465,462	11/5/2019	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE TOOLS HAVING NON-TOXIC DEGRADABLE ELEMENTS	10,465,468	11/5/2019	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	PLUG OF EXTENDED REACH	10,385,649	8/20/2019	United States
NINE ENERGY SERVICE, INC.	DOWNHOLE ASSEMBLY FOR SELECTIVELY SEALING OFF A WELLBORE	11,098,556	8/24/2021	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	INTERVENTIONLESS FRANGIBLE DISK ISOLATION TOOL	10,107,070	10/23/2018	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	INTERVENTIONLESS FRANGIBLE DISK ISOLATION TOOL	10,887,153	1/5/2021	United States
NINE ENERGY SERVICE, INC.	DOWNHOLE ASSEMBLY FOR SELECTIVELY SEALING OFF A WELLBORE	10,458,201	10/29/2019	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	EXTENDED REACH PLUG	9,850,736	12/26/2017	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE VALVE ASSEMBLY	9,739,114	8/22/2017	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	BOTTOM SET DOWNHOLE PLUG	9,850,738	9,850,738	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Downhole perforation tool and method of subsurface fracturing	7,861,785	1/4/2011	United States
NINE DOWNHOLE	CONFIGURABLE INSERTS FOR DOWNHOLE PLUGS	9,062,522	6/23/2015	United States

TECHNOLOGIES, LLC				
NINE DOWNHOLE TECHNOLOGIES, LLC	Hydrostatic Setting Tool	9,121,240	9/1/2015	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Settable well tool method	10,260,308	4/16/2019	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	SPLIT RING SEALING ASSEMBLIES	10,662,732	5/26/2020	United States
NINE ENERGY SERVICE, INC.	DOWNHOLE ASSEMBLY FOR SELECTIVELY SEALING OFF A WELLBORE	10,871,053	12/22/2020	United States

Canadian Patents

Applicant	Owner	Patent	Appl./Reg. No.
FRAZIER, W. LYNN	MAGNUM OIL TOOLS INTERNATIONAL, LTD	ISOLATION TOOL WITH RUPTURABLE DISC	2711323
FRAZIER, W. LYNN	MAGNUM OIL TOOLS INTERNATIONAL, LTD	BREAKING OF FRANGIBLE ISOLATION ELEMENTS	2856927
MAGNUM OIL TOOLS INTERNATIONAL, LTD.	NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE PLUG HAVING DISSOLVABLE METALLIC AND DISSOLVABLE ACID POLYMER ELEMENTS	2935508
MAGNUM OIL TOOLS INTERNATIONAL, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	INTERVENTIONLESS FRANGIBLE DISK ISOLATION TOOL	2937076
MAGNUM OIL TOOLS INTERNATIONAL, LTD.	MAGNUM OIL TOOLS INTERNATIONAL, LTD.	DOWNHOLE TOOL WITH PROTECTIVE COVERING	3040142
MAGNUM OIL TOOLS INTERNATIONAL, LTD.	NINE DOWNHOLE TECHNOLOGIES, LLC	GAS CAPABLE FRANGIBLE DISC BARRIER VALVE	3089387

Applicant	Owner	Patent	Appl./Reg. No.
GREENLEE, DONALD R	NINE DOWNHOLE TECHNOLOGIES, LLC	RETRIEVABLE DOWNHOLE TOOL	2924287
GREENLEE, DONALD R GREENLEE, DONALD J	NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE APPARATUS WITH PACKER CUP AND SLIP	2678819
GREENLEE, DONALD R GREENLEE, DONALD J	NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE APPARATUS WITH PACKER CUP AND SLIP	2787542
GREENLEE, DONALD R GREENLEE, DONALD J	NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE TOOL APPARATUS WITH SLIP PLATE AND WEDGE	2836295
NINE DOWNHOLE TECHNOLOGIES, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	FILAMENT REINFORCED COMPOSITE MATERIAL WITH LOAD-ALIGNED FILAMENT WINDINGS	3039385
NINE DOWNHOLE TECHNOLOGIES, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	COMPACT DOWNHOLE TOOL	3083608
NINE DOWNHOLE TECHNOLOGIES, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	DROP BALLS FOR USE WITH SETTABLE DOWNHOLE TOOLS	3095016
NINE DOWNHOLE TECHNOLOGIES, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	PLUGGING DEVICE	3108164
NINE DOWNHOLE TECHNOLOGIES, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	SLEEVE FOR DOWNHOLE TOOLS	3108205
NINE DOWNHOLE TECHNOLOGIES, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	SYSTEMS AND METHODS FOR PLUGGING AN OIL WELL	3146640
NINE DOWNHOLE TECHNOLOGIES, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	SHEARABLE SLEEVE	3115953
NINE DOWNHOLE TECHNOLOGIES, LLC	NINE DOWNHOLE TECHNOLOGIES, LLC	MULTI-CYCLE COUNTER SYSTEM	3158151
FRAZIER, W. LYNN	NINE DOWNHOLE TECHNOLOGIES, LLC	WELLBORE PLUG HAVING SHEARABLE THREADS	2663423

U.S. Patent Applications

Name of Grantor	Patent Application	Application Filing Date	Application Serial Number	Jurisdiction
NINE DOWNHOLE TECHNOLOGIES, LLC	Shearable Sleeve	4/16/2021	17/233,215	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Systems and Methods for Plugging an Oil Well	1/25/2022	17/648,912	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Multi-Cycle Counter System	11/10/2022	17/662,816	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	COMPACT DOWNHOLE TOOL	6/21/2022	17/808,051	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	DOWNHOLE ASSEMBLY FOR SELECTIVELY SEALING OFF A WELLBORE	8/24/2021	17/410,763	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	GAS CAPABLE FRANGIBLE DISC BARRIER VALVE	1/28/2019	16/259,910	United States
NINE DOWNHOLE TECHNOLOGIES, LLC	Cup Plug Having a Large Flow-Through Inside Diameter	6/27/2022	17/809,252	United
NINE DOWNHOLE TECHNOLOGIES, LLC	Plugging Device	10/18/2021	17/504,294	United States