

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM868869

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
APS TECHNOLOGY LLC		12/31/2023	Limited Liability Company: CONNECTICUT
RECEIVING PARTY DATA			
Name:	BALANCE POINT CAPITAL PARTNERS III, LP, as Agent		
Street Address:	285 Riverside Avenue, Suite 200		
City:	Westport		
State/Country:	CONNECTICUT		
Postal Code:	06880		
Entity Type:	Limited Partnership: DELAWARE		
PROPERTY NUMBERS Total: 3			
Property Type	Number	Word Mark	
Registration Number:	4519931	APS TECHNOLOGY	
Registration Number:	2991025	ENGINEERING SOLUTIONS FOR HARSH ENVIRONM	
Registration Number:	3900006	RSM	
CORRESPONDENCE DATA			
Fax Number:	2136272579		
<i>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.</i>			
Phone:	2134579864		
Email:	dkay@mcguirewoods.com		
Correspondent Name:	Don Kay		
Address Line 1:	355 S. Grand Avenue, Suite 4200		
Address Line 4:	Los Angeles, CALIFORNIA 90071		
ATTORNEY DOCKET NUMBER:	2069107-0027		
NAME OF SUBMITTER:	Don Kay		
SIGNATURE:	/Don Kay/		
DATE SIGNED:	01/17/2024		
Total Attachments: 20			
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**FIRST AMENDED AND RESTATED
INTELLECTUAL PROPERTY SECURITY AGREEMENT**

This First Amended And Restated Intellectual Property Security Agreement (this “*Agreement*”) is entered into as of December 31, 2023, by and between APS TECHNOLOGY LLC, a Connecticut limited liability company (“*Issuer*”) and BALANCE POINT CAPITAL PARTNERS III, LP, a Delaware limited partnership (“*Balance Point*”), in its capacity as the administrative and collateral agent (in such capacity, the “*Agent*”) for itself and all of the other Holders (“*Holder*s”) who are from time to time parties to the Note Purchase Agreement (as defined below).

RECITALS:

WHEREAS, APS Technology Holdings, Inc., a Connecticut corporation (formerly known as APS Technology, Inc.) (“*Parent*”) entered into that certain Note Purchase Agreement, dated as of October 2, 2017 (as the same has been amended, from time to time, prior to the date hereof, the “*Existing Parent NPA*”) with Holders and Agent, pursuant to which, among other things, Parent issued Notes (as defined in the Existing Parent NPA) to Holders, subject to the terms and conditions contained therein; and

WHEREAS, in connection with the Existing Parent NPA, each of Parent, APS Industries and APST International entered into the following:

(a) a certain Guaranty and Collateral Agreement, dated as of October 2, 2017 (as the same has been amended, from time to time, prior to the date hereof, the “*Existing Guaranty and Collateral Agreement*”), by and among the Parent, APS Industries and APST International and the Agent; and

(b) a certain Intellectual Property Security Agreement, dated as of October 2, 2017 (as the same has been amended, from time to time, prior to the date hereof, the “*Existing Intellectual Property Security Agreement*”) by and among the Parent, APS Industries and APST International and the Agent; and

WHEREAS, Issuer is a newly-formed, wholly owned Subsidiary of the Parent; and

WHEREAS, Parent and Issuer have requested, among other things, that the Existing Parent NPA be replaced in its entirety with a certain Note Purchase Agreement, dated of even date herewith (as the same may be amended, restated, supplemented, executed and modified from time to time, the “*Note Purchase Agreement*”) by and among Issuer, Holders and Agent in connection with the assumption by Issuer of all Indebtedness (as defined in the Existing Parent NPA), liabilities and obligations of Parent under the Existing Parent NPA, all upon the terms and conditions contained therein; and

WHEREAS, it is a condition precedent to the effectiveness of the Note Purchase Agreement that, among other things:

(a) the Issuer, APS Industries and APST International (collectively, the “*Grantors*”) enter into a certain First Amended and Restated Guaranty and Collateral Agreement dated as of even date herewith (as the same may be hereafter amended, restated, extended, supplemented or modified from time to time, the “*Guaranty and Collateral Agreement*”), by and among the Grantors and Agent, which amends, restates and replaces the obligations, liabilities, rights, and interests of the Parent, APS Industries and APST International under the Existing Guaranty and Collateral Agreement; and

(b) The Issuer enter into this Agreement with the Agent which amends, restates and replaces the obligations, liabilities, rights, and interests of the Parent, APS Industries and APST International under the Existing Intellectual Property Security Agreement;

NOW, THEREFORE, in order to induce Agent and the Holders to enter into the Note Purchase Agreement and in consideration thereof, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Issuer (intending to be legally bound) hereby agrees with Agent, for the ratable benefit of Holders and Agent as follows (and further agrees with Agent, for the ratable benefit of Holders and Agent that as it relates to each of the Parent, APS Industries and APST International, the Existing Intellectual Property Security Agreement is hereby amended, restated and replaced in its entirety, as follows):

AGREEMENT

1. To secure the prompt and complete payment and performance by the Grantors to the Agent and Holders of the Obligations, the Issuer hereby grants and pledges to the Agent, for itself and for the ratable benefit of the Holders, a security interest in all of the right, title and interest of the Issuer in, to and under its Intellectual Property Collateral (including without limitation Intellectual Property listed on **Exhibit A** hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof, in each case to the extent constituting Collateral.

2. The security interest granted by the Issuer to the Agent under this Agreement is made in conjunction with the security interest granted by the Issuer to the Agent under the Guaranty and Collateral Agreement. The rights and remedies of the Agent with respect to the security interest granted hereby are more fully set forth in the Note Purchase Agreement and the Guaranty and Collateral Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. The Agent's rights and remedies under this Agreement, the Note Purchase Agreement and the Note Documents shall be cumulative, and the Agent shall have all other rights and remedies not inconsistent with this Agreement, the Note Purchase Agreement and the Guaranty and Collateral Agreement as provided by law or in equity. In the event of any conflict or inconsistency between this Agreement and the Guaranty and Collateral Agreement (or any portion hereof or thereof), the terms of the Guaranty and Collateral Agreement shall prevail.

3. The Issuer hereby represents and warrants that, as of the date hereof, **Exhibit A** attached hereto sets forth any and all intellectual property rights constituting Intellectual Property Collateral in connection to which such Grantor has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

4. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

5. Effective on and after the date hereof, this Agreement constitutes an amendment, restatement and replacement in its entirety of the Existing Intellectual Property Security Agreement as the Existing Intellectual Property Security Agreement relates to the Parent, APS Industries and APST International and all obligations, liabilities, rights and interests of each of the Parent, APS Industries and APST International thereunder. The execution and delivery of this Agreement by the parties hereto shall not constitute a novation of any obligations or liabilities of the Parent, APS Industries and APST International owing to Agent and Holders under the Existing Intellectual Property Security Agreement

based on facts or events occurring or existing prior to the execution and delivery by the parties hereto of this Agreement. Effective on and after the date hereof, the Existing Intellectual Property Security Agreement as it relates to the Parent, APS Industries and APST International shall be amended, restated and replaced in its entirety by this Agreement, and all liabilities and obligations of the Parent, APS Industries and APST International outstanding under the Existing Intellectual Property Security Agreement as of the date hereof, shall be deemed to be liabilities and obligations of the Parent, APS Industries and APST International outstanding hereunder, as the case may be, without any further action by any Person.

[THE REMAINDER OF THIS PAGE IS LEFT BLANK INTENTIONALLY]

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

GRANTORS:

Address of Grantors:

APS TECHNOLOGY LLC

APS Technology, Inc.
7 Laser Lane
Wallingford, CT 06492
Attention: Lawrence S. Weiner
Email: lweiner@aps-tech.com
Telephone: (860) 613-4450, ext. 104

By: 
Name: Denis Biglin
Title: President and Chief Executive Officer

With a copy to (which shall not constitute notice):

Nixon Peabody LLP
55 West 46th Street,
New York NY 10036
Attention: Richard F. Langan, Jr.
Email: rlangan@nixonpeabody.com
Telephone: 212.940.3140

(Signature Page to IP Security Agreement)


TRADEMARK
REEL: 008319 FRAME: 0321

COLLATERAL AGENT:

Address of Collateral Agent:

Balance Point Capital Partners III, LP
285 Riverside Avenue, Suite 200
Westport, CT 06880
Attention: Nathan Elliot
Email: nelliot@balancepointcapital.com
Telephone: (203) 652-8264

BALANCE POINT CAPITAL PARTNERS III, LP
By: Balance Point Capital Managers III, LLC
Its: General Partner

By: 
Name: Seth W. Alvord
Title: Managing Member

With a copy to (which shall not constitute notice):

McGuireWoods LLP
2601 Olive Street, Suite 2100
Dallas, TX 75201
Attention: David P. McLean
Email: dpmclean@mcguirewoods.com
Telephone: (214) 932-6401

EXHIBIT A

1. Copyrights: None.

2. Patents.

Offit Kurman Ref. No.	Title	Country	Application No.	Date Filed	Patent No.	Issue Date
04840002.00004	APPARATUS FOR JOINING SECTIONS OF PRESSURIZED CONDUIT	US	08/751,271	11/18/1996	5,816,344	10/06/1998
04840002.00006	APPARATUS AND METHOD FOR ANALYZING FLUIDS	US	09/453,003	12/02/1999	6,507,401	01/14/2003
04840002.00007	STATOR ESPECIALLY ADAPTED FOR USE IN A HELICOIDAL PUMP/MOTOR	US	08/950,993	10/15/1997	6,102,681	08/15/2000
04840002.00008	COOLED ELECTRICAL SYSTEM FOR USE DOWNHOLE	US	09/064,898	04/23/1998	5,931,000	08/03/1999
04840002.00009	ELECTRICAL COUPLING FOR A MULTISECTION CONDUIT SUCH AS A DRILL PIPE	US	09/115,031	07/14/1998	6,123,561	09/26/2000
04840002.00011	METHOD AND APPARATUS FOR COMMUNICATING WITH DEVICES DOWNHOLE IN A WELL ESPECIALLY ADAPTED FOR USE AS A BOTTOM HOLE MUD FLOW SENSOR	US	09/086,418	05/29/1998	6,105,690	08/22/2000
04840002.00012	APPARATUS FOR JOINING SECTIONS OF PRESSURIZED CONDUIT	US	09/122,120	07/24/1998	5,927,409	07/27/1999
04840002.00040	COOLED ELECTRICAL SYSTEM FOR USE DOWNHOLE	US	09/243,768	02/03/1999	6,134,892	10/24/2000
04840002.00044	MAGNETORHEOLOGICAL FLUID APPARATUS, ESPECIALLY ADAPTED FOR USE IN A STEERABLE DRILL STRING, AND METHOD OF	US	09/413,111	10/06/1999	6,257,356	07/10/2001

04840002.00048	USING SAME METHOD AND APPARATUS FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING DOWN HOLE IN A WELL	US	09/676,379	09/29/2000	6,714,138	03/30/2004
04840002.00054	APPARATUS FOR MEASURING WEIGHT AND TORQUE ON A DRILL BIT OPERATING IN A WELL	US	09/734,983	12/12/2000	6,547,016	04/15/2003
04840002.00059	DRILL STRING SECTION WITH INTERNAL PASSAGE	US	10/095,174	03/11/2002	6,634,427	10/21/2003
04840002.00060	FLEXIBLE COUPLING	US	10/062,118	01/31/2002	6,916,248	07/12/2005
04840002.00061	ELASTOMERIC JOINTS HAVING INTERLOCKING THREADED PORTIONS	US	08/732,906	10/17/1996	5,833,541	11/10/1998
04840002.00067	APPARATUS AND METHOD FOR ANALYZING FLUIDS	US	10/247,192	09/19/2002	6,707,556	03/16/2004
04840002.00068	LATCHING SYSTEM FOR MAINTAINING POSITION OF COMPONENT WITHIN A DOWNHOLE DRILL STRING SECTION	US	10/439,078	05/15/2003	6,896,050	05/14/2005
04840002.00072	ROTARY STEERABLE MOTOR SYSTEM FOR DEEP GAS DRILLING	US	11/117,802	04/29/2005	7,389,830	06/24/2008
04840002.00077	POWER-GENERATING DEVICE FOR USE IN DRILLING OPERATIONS	US	10/837,727	05/03/2004	7,201,239	04/10/2007
04840002.00080	IMPROVED ROTARY PULSER FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING DOWN HOLE IN A WELL	US	10/888,312	07/09/2004	7,327,634	02/05/2008
04840002.00081	ELECTRICAL CONNECTIONS FOR HARSH CONDITIONS	US	10/919,633	08/16/2004	7,249,968	07/31/2007
04840002.00083	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A	US	10/983,486	11/08/2004	7,219,752	05/22/2007

04840002.00091	DRILL STRING METHODS AND SYSTEMS FOR DETERMINING ANGULAR ORIENTATION OF A DRILL STRING	US	11/416,009	05/01/2006	7,681,663	05/23/2010
04840002.00103	SYSTEM AND METHOD FOR MAGNETORHEOLOGICAL DAMPING IN A DRILL STRING	US	12/398,983	03/05/2009	8,087,476	01/03/2012
04840002.00105	SYSTEM AND METHOD FOR MONITORING AND CONTROLLING UNDERGROUND DRILLING	US	12/698,125	02/01/2010	8,453,764	06/04/2013
04840002.00106	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	US	11/737,400	04/19/2007	7,377,339	05/27/2008
04840002.00109	ROTARY STEERABLE MOTOR SYSTEM FOR UNDERGROUND DRILLING	US	12/125,747	05/22/2008	7,762,356	07/27/2010
04840002.00113	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	US	12/109,328	04/24/2008	7,997,357	08/16/2011
04840002.00114	SYNCHRONIZED TELEMETRY FROM A ROTATING ELEMENT	US	12/389,950	02/20/2009	8,525,690	09/03/2013
04840002.00116	APPARATUS FOR MEASURING BENDING ON A DRILL BIT OPERATING IN A WELL	US	12/512,740	07/30/2009	8,397,562	03/19/2013
04840002.00122	SYSTEM AND METHOD FOR ACQUIRING INFORMATION DURING UNDERGROUND DRILLING OPERATIONS (CHECKSHOT)	US	12/563,007	09/18/2009	8,666,908	03/04/2014
04840002.00129	STABILIZER FOR USE IN A DRILL STRING	US	09/896,020	06/29/2001	6,662,803	09/23/2003
04840002.00133	FRICTIONAL DAMPER FOR STICK-SLIP MOTION	US	13/041,863	03/07/2011	9,458,679	10/04/2016
04840002.00143	APPARATUS AND METHOD FOR DETERMINING AXIAL FORCES ON A DRILL STRING DURING UNDERGROUND	US	13/098,246	04/29/2011	8,919,457	12/30/2014

	DRILLING							
04840002.00144	ROTARY STEERABLE TOOL USING FLEXIBLE HOUSING TO STEER THE BIT	US	13/674,872	11/12/2012	9,500,031	11/22/2016		
04840002.00145	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	US	13/206,445	08/09/2011	8,240,401	08/14/2012		
04840002.00146	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING USING A MAGNETORHEOLOGICAL DAMPER	US	13/228,376	09/08/2011	9,976,360	05/22/2018		
04840002.00152	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING USING A MAGNETORHEOLOGICAL DAMPER	US	13/283,518	10/27/2011	9,057,245	06/16/2015		
04840002.00158	ROTARY PULSER AND METHOD FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING	US	13/427,593	03/22/2012	9,238,965	01/19/2016		
04840002.00167	DUAL ROTOR PULSER FOR TRANSMITTING INFORMATION IN A DRILLING SYSTEM	US	15/433,412	02/15/2017	10,323,511	06/18/2019		
04840002.00175	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	US	13/557,072	07/24/2012	8,662,205	03/04/2014		
04840002.00176	SYSTEM AND METHOD FOR MONITORING AND CONTROLLING UNDERGROUND DRILLING	US	13/646,505	10/05/2012	8,684,108	04/01/2014		
04840002.00177	SYSTEM AND METHOD FOR MONITORING AND CONTROLLING UNDERGROUND DRILLING	US	13/646,540	10/05/2012	8,640,791	02/04/2014		
04840002.00179	Strain Sensor Assembly	US	14/171,261	02/03/2014	9,927,310	03/27/2018		
04840002.00184	APPARATUS FOR	US	13/776,705	02/26/2013	9,279,903	03/08/2016		

		MEASURING BENDING ON A DRILL BIT OPERATING IN A WELL							
04840002.00186		DISPLAY SCREEN OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE FOR ANALYZING AND PRESENTING DRILLING DATA	US	29/460,812	07/15/2013	D843,381	03/19/2019		
04840002.00191		DRILLING SYSTEM AND METHOD FOR MONITORING AND DISPLAYING DRILLING PARAMETERS FOR A DRILLING OPERATION OF A DRILLING SYSTEM	US	14/026,332	09/13/2013	11,078,772	08/03/2021		
04840002.00192		DRILLING SYSTEM AND ASSOCIATED SYSTEM AND METHOD FOR MONITORING, CONTROLLING, AND PREDICTING VIBRATION IN AN UNDERGROUND DRILLING OPERATION	US	14/036,577	09/25/2013	10,472,944	11/12/2019		
04840002.00196		SYSTEM AND RELATED METHODS FOR CONTROL OF A DIRECTIONAL DRILLING OPERATION	US	14/536,379	11/07/2014	10,113,363	10/30/2018		
04840002.00198		HIGH PRESSURE SEAL ASSEMBLY FOR A MOVEABLE SHAFT	US	14/529,899	10/31/2014	9,746,080	08/29/2017		
04840002.00199		ANTENNAS FOR A DRILLING SYSTEM AND METHOD OF MAKING SAME	US	14/849,490	09/09/2015	10,047,602	08/14/2018		
04840002.00200		DRILLING SYSTEM AND ELECTROMAGNETIC TELEMETRY TOOL WITH AN ELECTRICAL CONNECTOR ASSEMBLY AND ASSOCIATED METHODS	US	14/195,217	03/03/2014	9,765,613	09/19/2017		
04840002.00201		SYSTEM, APPARATUS, AND METHOD FOR DRILLING	US	14/087,637	11/22/2013	10,190,408	01/29/2019		

04840002.00202	PRESSURE LOCKING DEVICE FOR DOWNHOLE TOOLS	US	14/627,806	02/20/2015	9,976,413	05/22/2018
04840002.00207	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	US	14/155,220	01/14/2014	8,944,190	02/03/2015
04840002.00213	TELEMETRY SYSTEM, CURRENT SENSOR, AND RELATED METHODS FOR A DRILLING SYSTEM	US	14/282,262	05/20/2014	9,790,784	10/17/2017
04840002.00214	SYSTEM AND METHOD FOR MONITORING AND CONTROLLING UNDERGROUND DRILLING	US	14/186,928	02/21/2014	9,696,198	07/04/2014
04840002.00235	DOWNHOLE DRILLING MOTOR WITH AN ADJUSTMENT ASSEMBLY	US	14/675,378	03/31/2015	10,233,700	03/19/2019
04840002.00239	SYSTEM, APPARATUS AND METHOD FOR GUIDING A DRILL BIT BASED ON FORCES APPLIED TO A DRILL BIT, AND DRILLING METHODS RELATED TO SAME	US	14/613,342	02/03/2015	10,337,250	07/02/2019
04840002.00241	MUD-PULSE TELEMETRY SYSTEM INCLUDING A PULSER FOR TRANSMITTING INFORMATION ALONG A DRILL STRING SUB	US	14/628,902	02/23/2015	9,540,926	01/10/2017
04840002.00245	DOWNHOLE DRILLING TOOLS AND CONNECTION SYSTEM FOR SAME	US	15/153,579	05/12/2016	10,184,301	01/22/2019
04840002.00261	BATTERY SYSTEM FOR DOWNHOLE DRILLING TOOLS	US	16/126,414	09/10/2018	10,914,166	02/09/2021
04840002.00268	MUD-PULSE TELEMETRY SYSTEM INCLUDING A PULSER FOR TRANSMITTING INFORMATION ALONG A DRILL STRING	US	15/345,380	11/07/2016	10,465,506	11/05/2019
04840002.00286	ROTARY PULSER WITH	US	17/976,138			

04840002.00292	REGENERATIVE CONTROLS SYSTEM AND METHOD FOR MONITORING AND CONTROLLING UNDERGROUND DRILLING	US	15/640,792	07/03/2017	10,416,024	09/17/2019
04840002.00300	MONITORING SYSTEM WITH AN INSTRUMENTED SURFACE TOP SUB	US	15/557,846	09/13/2017	11,156,080	10/26/2021
04840002.00302	Rotary steerable tool with proportional control valve	US	16/441,930	06/14/2019	11,162,303	11/02/2021
04840002.00304	SYSTEM AND METHOD FOR PROCESSING DOWNHOLE DATA IN A DRILLING OPERATION	US	16/067,369	06/29/2018	10,935,683	03/02/2021
04840002.00305	ACCOUSTIC LOGGING TOOL	US	16/057,863	08/08/2018	11,156,735	10/26/2021
04840002.00306	Downhole Tool with Multiple Welded Sections	US	16/058,073	12/30/2016	10,995,611	05/04/2021
04840002.00308	Display Screen or Portion Thereof with A Graphical User Interface For Analyzing and Presenting Drilling Data	US	29/679,985	02/12/2019	D928,195	08/17/2021
04840002.00309	SYSTEM, APPARATUS AND METHOD FOR GUIDING A DRILL BIT BASED ON FORCES APPLIED TO A DRILL BIT, AND DRILLING METHODS RELATED TO SAME	US	16/410,650	05/13/2019	10,927,605	02/23/2021
04840002.00311	SEALING ASSEMBLY AND RELATED METHODS	US	16/588,200	09/30/2019	11,021,910	06/01/2021
04840002.00314	DUAL ROTOR PULSER FOR TRANSMITTING INFORMATION IN A DRILLING SYSTEM	US	16/402,842	05/03/2019	10,669,843	06/02/2020
04840002.00328	SYSTEM AND METHOD FOR MONITORING MOTION OF DOWNHOLE TOOL COMPONENTS OF A DRILLING SYSTEM	US	16/689,700	11/20/2019		
04840002.00331	ROTARY STEERABLE TOOL	US	17/514,682	10/29,2021	11,624,237	04/11/2023

	WITH PROPORTIONAL CONTROL DEVICE						
	System and method for monitoring mud flow in a component of drilling system	US	15/618,646	6/9/2017	10,422,675	9/24/2019	

Offit Kurman Ref. No.	Title	Country	Application No.	Date Filed	Patent No.	Issue Date
04840002.00063	Magneto-rheological Fluid Apparatus, Especially Adapted For Use In A Steerable Drill String, And Method Of Using Same	CA	2,379,213	04/12/2001	2,379,213	08/19/2008
04840002.00064	STEERABLE DRILL STRING	UK	2009760.8	10/02/2000	2,373,527	09/25/2002
04840002.00069	METHOD AND APPARATUS FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILLSTRING DOWN HOLE IN A WELL	CA	2,423,661	09/18/2001	2,423,661	06/14/2011
04840002.00070	METHOD AND APPARATUS FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILLSTRING DOWN HOLE IN A WELL	CN	1816471.4	09/18/2001	ZL01816471.4	10/04/2006
04840002.00071	METHOD AND APPARATUS FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILLSTRING DOWN HOLE IN A WELL	UK	309632.8	09/18/2001	2386390	02/22/2005
04840002.00079	LATCHING SYSTEM FOR MAINTAINING POSITION OF COMPONENT WITHIN A DOWNHOLE STRING SECTION	CA	2,467,122	11/15/2004	2,467,122	05/06/2012
04840002.00085	METHOD AND APPARATUS FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A	GB	428397.4	09/18/2001	2407598	06/22/2005

	DRILL STRING DOWN HOLE IN A WELL							
04840002.00087	IMPROVED ROTARY PULSER FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING DOWN HOLE IN A WELL	CA	2,506,912	05/06/2005	2,506,912	07/09/2013		
04840002.00088	IMPROVED ROTARY PULSER FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING DOWN HOLE IN A WELL	CN	200510081123.3	06/27/2005	ZL200510081123	12/21/2011		
04840002.00089	IMPROVED ROTARY PULSER FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING DOWN HOLE IN A WELL	UK	0513787.2	07/05/2005	2415977	06/17/2009		
04840002.00097	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	CA	2,544,832	11/08/2004	2,544,832	01/24/2012		
04840002.00098	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	CN	200480036424.8	11/08/2004	ZL200480036424	12/08/2010		
04840002.00099	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	GB	0610940.9	11/08/2004	2,424,018	05/28/2008		
04840002.00108	ROTARY STEERABLE MOTOR SYSTEM FOR UNDERGROUND DRILLING	CA	2,606,428	10/26/2007	2,606,428	07/14/2015		
04840002.00110	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	GB	0801519.0	01/28/2008	2443119	06/25/2008		
04840002.00111	SYSTEM AND METHOD FOR	GB	0801521.6	01/28/2008	2443362	06/18/2008		

	DAMPING VIBRATION IN A DRILL STRING							
04840002.00137	Torsion Bearing Assembly For Transferring Torque To Drill	CN	201010525880.6	11/08/2004	ZL201010525880.6	08/15/2012		
04840002.00147	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING USING A MAGNETORHEOLOGICAL DAMPER	CA	2,754,204,	09/01/2011	2,754,204	06/17/2014		
04840002.00148	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING USING A MAGNETORHEOLOGICAL DAMPER	CN	201080018905.1	03/02/2010	ZL201080018905.1	09/17/2014		
04840002.00150	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING USING A MAGNETORHEOLOGICAL DAMPER	CA	2,755,416	10/17/2011	2,755,416	09*01/2015		
04840002.00160	APPARATUS FOR MEASURING BENDING ON A DRILL BIT OPERATING IN A WELL	CA	2,769,649	07/30/2012	2,769,649	09/03/2019		
04840002.00161	APPARATUS FOR MEASURING BENDING ON A DRILL BIT OPERATING IN A WELL	CN	201080043062.0	07/30/2010	ZL201080043062.0	10/19/2016		
04840002.00162	APPARATUS FOR MEASURING BENDING ON A DRILL BIT OPERATING IN A WELL	GB	1202357.8	02/10/2012	2484863	08/21/2013		
04840002.00172	SYSTEM AND METHOD FOR MONITORING AND CONTROLLING UNDERGROUND DRILLING	CA	2,788,116	07/24/2012	2,788,116	07/17/2018		
04840002.00173	SYSTEM AND METHOD FOR MONITORING AND CONTROLLING UNDERGROUND DRILLING	CN	201180007995.9	08/01/2012	ZL201180007995.9	07/22/2015		

04840002.00174	SYSTEM AND METHOD FOR MONITORING AND CONTROLLING UNDERGROUND DRILLING	GB	1214292.3	08/10/2012	2492906	08/03/2016
04840002.00193	APPARATUS AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	CA	2,829,318	02/27/2012	2,829,318	02/26/2019
04840002.00208	DISPLAY SCREEN OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE FOR ANALYZING AND PRESENTING DRILLING DATA	GB	4033750	01/15/2014	4033750	08/07/2014
04840002.00209	DISPLAY SCREEN OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE FOR ANALYZING AND PRESENTING DRILLING DATA	CA	154702	01/14/2014	1054702	06/23/2015
04840002.00217	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING USING A MAGNETORHEOLOGICAL DAMPER	CN	201280043953.5	03/10/2014	ZL201280043953.5	09/08/2017
04840002.00225	SYSTEM AND METHOD FOR DAMPING VIBRATION IN A DRILL STRING	CA	2,902,466	08/31/2015	2,902,466	06/21/2016
04840002.00228	DRILLING SYSTEM AND ASSOCIATED SYSTEM AND METHOD FOR MONITORING, CONTROLLING, AND PREDICTING VIBRATION IN AN UNDERGROUND DRILLING OPERATION	GB	1416776.1	09/23/2014	2518981	12/23/2015
04840002.00230	DRILLING SYSTEM AND ASSOCIATED SYSTEM AND METHOD FOR MONITORING, CONTROLLING, AND	CN	201410495272.3	09/25/2014	ZL201410495272.3	06/04/2019

	PREDICTING VIBRATION IN AN UNDERGROUND DRILLING OPERATION							
04840002.00231	DRILLING SYSTEM AND ASSOCIATED SYSTEM AND METHOD FOR MONITORING, CONTROLLING, AND PREDICTING VIBRATION IN AN UNDERGROUND DRILLING OPERATION	GB	1416779.5	09/23/2014	2518982		06/06/2018	
04840002.00234	DRILLING SYSTEM AND METHOD FOR MONITORING AND DISPLAYING DRILLING PARAMETERS FOR A DRILLING OPERATION OF A DRILLING SYSTEM	GB	1412438.2	07/14/2014	2518282		12/16/2015	
04840002.00236	DISPLAY SCREEN OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE FOR ANALYZING AND PRESENTING DRILLING DATA	GB	4033750	01/15/2014	4036541		08/07/2014	
04840002.00237	DISPLAY SCREEN OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE FOR ANALYZING AND PRESENTING DRILLING DATA	GB	4033750	01/15/2014	4036542		08/07/2014	
04840002.00238	DISPLAY SCREEN OR PORTION THEREOF WITH A GRAPHICAL USER INTERFACE FOR ANALYZING AND PRESENTING DRILLING DATA	GB	4033750	01/15/2014	4036543		08/07/2014	
04840002.00242	ROTARY PULSER AND METHOD FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING DOWN HOLE IN A	CA	2,868,006	03/22/2013	2,868,006		06/30/2020	

	WELL						
04840002.00243	ROTARY PULSER AND METHOD FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING DOWN HOLE IN A WELL	CN	201380015686.5	09/22/2014	ZL201380015686.5	11/03/2017	
04840002.00257	ROTARY STEERABLE MOTOR SYSTEM FOR UNDERGROUND DRILLING	CA	2,889,616	04/2/2015	2,889,616	04/11/2017	
04840002.00278	ROTARY PULSER AND METHOD FOR TRANSMITTING INFORMATION TO THE SURFACE FROM A DRILL STRING DOWN HOLE IN A WELL	UK	2538639	06/22/2016	2538639	02/22/2017	
04840002.00295	MUD-PULSE TELEMETRY SYSTEM INCLUDING A PULSER FOR TRANSMITTING INFORMATION ALONG A DRILL STRING	CN	201711036629.1	10/30/2017			
04840002.00296	MUD-PULSE TELEMETRY SYSTEM INCLUDING A PULSER FOR TRANSMITTING INFORMATION ALONG A DRILL STRING	CA	2,977,477	08/25/2017			

PENDING PATENT MATTERS
NOVEMBER 29, 2023

MATTER NUMBER	TITLE	COUNTRY	APPLICATION SERIAL NO.	APPLICATION FILING DATE	ACTION DUE	ACTION DUE DATE
04840002.00286	Rotary Pulsar with Rotor Position Control	United States	17/976,138	10/28/2022	Waiting for First Action	
04840002.00295	MUD-PULSE TELEMETRY SYSTEM INCLUDING A PULSER FOR TRANSMITTING INFORMATION ALONG A DRILL STRING	China	201711036629.1	10/30/2017	Awaiting Issued Patent	
04840002.00296	MUD-PULSE TELEMETRY SYSTEM INCLUDING A PULSER FOR TRANSMITTING INFORMATION ALONG A DRILL STRING	Canada	2977477	08/25/2017	Awaiting Issued Patent	
04840002.00328	SYSTEM AND METHOD FOR MONITORING MOTION OF DOWNHOLE TOOL COMPONENTS OF A DRILLING SYSTEM	United States	16/689,700	11/20/2019	Response to NFOA	2/22/2024

3. Trademarks

TRADEMARK INVENTORY					
MARK	SERIAL/REG NUMBER	COUNTRY	STATUS	NEXT DEADLINE	FEES/CLASS(ES)
RSM (word mark)	147934	UAE	Registered	Renewal Due: December 13, 2023 6-Month Grace Period: June 13, 2024	Fees: \$2525 Late Fee: \$510 (additional) Class 7
APS TECHNOLOGY (word mark)	4519931	US	Registered	Latest date \$8 & \$9 can be filed without paying additional fee: April 29, 2024 Latest date \$8 \$9 can be filed by paying an additional fee: October 29, 2024	Fees: \$1575 (w/out additional fee) Class(es): 7, 9, & 42
APS TECHNOLOGY (word mark)	11539443	China	Registered	Renewal Due: June 13, 2025	Class 7
ENGINEERING SOLUTIONS FOR HARSH ENVIRONMENTS (word mark)	2991025	US	Registered	Earliest date \$8 & \$9 can be filed: September 6, 2024 Latest date \$8 & \$9 can be filed without paying additional fee: September 6, 2025 Latest date \$8 \$9 can be filed by paying an additional fee: March 6, 2026	Class(es): 9, 40, & 42
RSM (word mark)	3900006	US	Registered	Earliest date \$8 & \$9 can be filed: January 4, 2030 Latest date \$8 & \$9 can be filed without paying additional fee: January 4, 2031 Latest date \$8 \$9 can be filed by paying an additional fee: July 4, 2031	Class 7
APS TECHNOLOGY (word mark)	11199825	EUTM	Registered	Renewal Due: September 19, 2032	Class(es) 7, 9, & 42

TRADEMARK

REEL: 008319 FRAME: 0337

RECORDED: 01/17/2024