PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7372417

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
APERGY BMCS ACQUISITION CORP.	06/07/2022
APERGY ESP SYSTEMS, LLC	06/07/2022
CHAMPIONX USA INC.	06/07/2022
HARBISON-FISCHER, INC.	06/07/2022
NORRIS-RODS, INC.	06/07/2022
PCS FERGUSON, INC.	06/07/2022
THETA OILFIELD SERVICES, INC.	06/07/2022
US SYNTHETIC CORPORATION	06/07/2022

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A.		
Street Address:	Address: 500 STANTON CHRISTIANA ROAD, NCC5, 1ST FLOOR		
Internal Address:	LOAN AND AGENCY SERVICES GROUP		
City:	NEWARK		
State/Country:	DELAWARE		
Postal Code:	19713		

PROPERTY NUMBERS Total: 66

Property Type	Number
Application Number:	17448813
Application Number:	17507763
Application Number:	14804973
Application Number:	17484547
Application Number:	17167314
Application Number:	17552858
Application Number:	17139539
Application Number:	17234601
Application Number:	17305069
Application Number:	17483753
Application Number:	16826029
Application Number:	17483430

PATENT REEL: 060313 FRAME: 0456

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Property Type	Number
Application Number:	17156765
Application Number:	17479553
Application Number:	17244755
Application Number:	17234400
Application Number:	17237017
Application Number:	17148145
Application Number:	17238472
Application Number:	16249824
Application Number:	16787214
Application Number:	29723823
Application Number:	29723822
Application Number:	29786961
Application Number:	15190364
Application Number:	17455804
Application Number:	17306704
Application Number:	17691051
Application Number:	17550221
Application Number:	17589765
Application Number:	17549628
Application Number:	17549519
Application Number:	16993055
Application Number:	17592388
Application Number:	17451535
Application Number:	16909838
Application Number:	17061419
Application Number:	17518100
Application Number:	17360704
Application Number:	17323537
Application Number:	29734635
Application Number:	29734689
Application Number:	29830851
Application Number:	17587734
Application Number:	17550864
Application Number:	17678819
Application Number:	17707569
Application Number:	17713161
Application Number:	17713170
Application Number:	16935475

Property Type	Number
Application Number:	17021752
Application Number:	17034257
Application Number:	29760765
Application Number:	29769089
Application Number:	17680729
Application Number:	17401112
Application Number:	17401030
Application Number:	17363410
Application Number:	17318365
Application Number:	63309936
Application Number:	63320914
Application Number:	63318663
PCT Number:	US2021013627
PCT Number:	US2021031561
PCT Number:	US2021038902
PCT Number:	US2021063349

CORRESPONDENCE DATA

Fax Number: (214)746-7777

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: 2147467700

Email: brian.lee@weil.com
Correspondent Name: ANGELA ESTRADA

Address Line 1: 200 CRESCENT COURT, SUITE 300

Address Line 4: DALLAS, TEXAS 75201

ATTORNEY DOCKET NUMBER:	15474.0007
NAME OF SUBMITTER:	ANGELA ESTRADA
SIGNATURE:	/Angela Estrada/
DATE SIGNED:	06/08/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 13

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PATENT SECURITY AGREEMENT SUPPLEMENT dated as of June 7, 2022 (this "Agreement"), between APERGY BMCS ACQUISITION CORP., APERGY ESP SYSTEMS, LLC, CHAMPIONX USA INC., HARBISON-FISCHER, INC., NORRIS-RODS, INC., PCS FERGUSON, INC., THETA OILFIELD SERVICES, INC. and US SYNTHETIC CORPORATION (the "Grantors") and JPMorgan Chase Bank, N.A. ("JPMCB"), as Administrative Agent.

Reference is made to (a) that certain Amended and Restated Credit Agreement, dated as of June 7, 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), by and among, inter alios, ChampionX Corporation, a Delaware corporation (the "Borrower"), the Lenders from time to time party thereto, the Issuing Banks from time to time party thereto and the Administrative Agent and (b) that certain Guarantee and Collateral Agreement, dated as of May 9, 2018 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Collateral Agreement"), between the Borrower, the Guarantors from time to time party thereto and the Administrative Agent. The Lenders and the Issuing Banks have extended, and have agreed to extend, credit to the Borrower subject to the terms and conditions set forth in the Credit Agreement. The Grantors are Affiliates of the Borrower, will derive substantial benefits from the extension of credit to the Borrower under the Credit Agreement and are willing to execute and deliver this Agreement in order to induce the Lenders and the Issuing Banks to extend such credit. Accordingly, the parties hereto agree as follows:

SECTION 1. <u>Terms</u>. Each capitalized term used but not otherwise defined herein shall have the meaning specified in the Credit Agreement or the Collateral Agreement, as applicable. The rules of construction specified in Section 1.03 of the Credit Agreement also apply to this Agreement, mutatis mutandis.

SECTION 2. <u>Grant of Security Interest</u>. As security for the payment or performance, as the case may be, in full of the Obligations, each Grantor, pursuant to the Collateral Agreement, did and hereby does grant to the Administrative Agent and its permitted successors and assigns, for the benefit of the Se- cured Parties, a security interest in all of such Grantor's right, title and interest in, to and under the portion of the Article 9 Collateral constituting Patents (including those listed on Schedule I hereto), subject to the exclusions set forth in Section 4.01(d) of the Collateral Agreement (collectively, the "Patent Collateral").

SECTION 3. Collateral Agreement. This Agreement has been executed and delivered by the Grantors for the purpose of recording the grant of security interest herein with the United States Patent and Trademark Office. The security interest granted hereby has been granted to the Administrative Agent for the benefit of the Lenders in connection with the Collateral Agreement and is expressly subject to the terms and conditions thereof. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the Patent Collateral are more fully set forth in the Collateral Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Collateral Agreement, the terms of the Collateral Agreement shall govern.

SECTION 4. <u>Counterparts</u>. This Agreement may be executed in counterparts (and by different parties hereto on 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 of this Agreement by facsimile or other electronic imaging shall be effective as delivery of a manually executed counterpart of this Agreement.

SECTION 5. <u>CHOICE OF LAW.</u> 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 SHALL

BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

[SIGNATURE PAGES FOLLOW]

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

> APERGY BMCS ACQUISITION CORP., as Grantor

By:

Name: Curtis Stucki

Title: Vice President, Chief Financial Officer

and Treasurer

APERGY ESP SYSTEMS, LLC, HARBISON-FISCHER, INC., NORRIS RODS, INC. PCS FERGUSON, INC., as Grantors

By:

Name: Daniel T. Erdman

Title: Vice President and Treasurer

CHAMPIONX USA INC.,

as Grantor

By:

Name: Antoine Marcos

Title: Vice President, Chief Financial Officer

and Treasurer

US SYNTHETIC CORPORATION,

as Grantor

By:

Name: Robert Galloway

Title: President

[Signature Page to Patent Security Agreement REEL: 060313 FRAME: 0462 IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

	Name: Curtis Stucki Title: Vice President, Chief Financial Officer
HAR NOR PCS	and Treasurer RGY ESP SYSTEMS, LLC, RBISON-FISCHER, INC., RRIS RODS, INC. FERGUSON, INC., rantors Name: Daniel T. Erdman Title: Vice President and Treasurer
	MPIONX USA INC., rantor
Dyr	
By:	Name: Antoine Marcos
	Title: Vice President, Chief Financial Officer and Treasurer
HS S	YNTHETIC CORPORATION
	SYNTHETIC CORPORATION, rantor

Title: President

APERGY BMCS ACQUISITION CORP.,

[Signature Page to Patent Security Agreement

PATENT

REEL: 060313 FRAME: 0463

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

as Gr	mor
By:	Name: Curtis Stucki Title: Vice President, Chief Financial Officer and Treasurer
HAR NOR PCS	GY ESP SYSTEMS, LLC, BISON-FISCHER, INC., US RODS, INC. ERGUSON, INC., untors
By:	Name: Daniel T. Erdman Title: Vice President and Treasurer
CHA as Gr	MPIONX USA INC.,
By:	Antoine Marcos
	Name: Antoine Marcos Title: Vice President, Chief Financial Officer and Treasurer
US S as Gi	INTHETIC CORPORATION, antor
By:	Name: Robert Galloway Title: President

APERGY BMCS ACQUISITION CORP.,

[Signature Page to Patent Security Agreement REEL: 060313 FRAME: 0464

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

	RGY BMCS ACQUISITION CORP., rantor
By:	
	Name: Curtis Stucki Title: Vice President, Chief Financial Officer and Treasurer
HAR NOR PCS	RGY ESP SYSTEMS, LLC, BISON-FISCHER, INC., BRIS RODS, INC. FERGUSON, INC., rantors
By:	
	Name: Daniel T. Erdman Title: Vice President and Treasurer
	MPIONX USA INC., rantor
By:	
	Name: Antoine Marcos Title: Vice President, Chief Financial Officer and Treasurer
	SYNTHETIC CORPORATION, rantor
By:	Rob Galloway Name: Robert Galloway
y.	Name: Robert Galloway Title: President

[Signature Page to Patent Security Agreement **REEL: 060313 FRAME: 0465** THETA OILFIELD SERVICES, INC.,

as Grantor

By:

Name: Daniel T. Erdman

Title: Vice President and Treasurer

[Signature Page to Patent Security Agreement

PATENT

REEL: 060313 FRAME: 0466

JPMORGAN CHASE BANK, N.A.,

as Administrative Agent

By:

Name: Arina Mavilian
Title: Executive Director

REEL: 060313 FRAME: 0467

SCHEDULE I

Patents

Registered Owner	Title	Pat. No./ Publ. No. / Appl. No.	Issue Date Pub. Date App. Date
Apergy BMCS Acquisition	PICK INCLUDING	{20220120180}	{4/21/2022}
Corporation	POLYCRYSTALLINE DIAMOND		,
-	COMPACT	17/448813	9/24/2021
Apergy ESP Systems, LLC	DOWNHOLE CENTRIFUGAL PUMP	{20220065266}	{3/3/2022}
	DIFFUSER WITH PROTUBERANT		
	VANES AND RELATED PUMPS AND	17/507763	10/21/2021
	METHODS		
ChampionX USA Inc.	COMPOSITION AND METHOD FOR	10214679	2/26/2019
	RECOVERING HYDROCARBON		
	FLUIDS FROM A SUBTERRANEAN	14/804973	7/21/2015
	RESERVOIR		
ChampionX USA Inc.	METHODS OF MAKING	10501625	12/10/2019
	ACRYLAMIDE-ACRYLIC ACID		
	COPOLYMERS	15/190364	6/23/2016
ChampionX USA Inc.	FLUORESCENT WATER	{20220024788}	{1/27/2022}
	TREATMENT COMPOUNDS AND		0 (2 4 (2 0 2 4
	METHOD OF USE	17/484547	9/24/2021
ChampionX USA Inc.	COMPOSITIONS AND METHODS	{20210163818}	{6/3/2021}
	FOR CORROSION INHIBITOR	17/1/7214	2/4/2021
Chamaian V LICA Inc	MONITORING COMPOSITIONS FOR ENHANCED	17/167314	2/4/2021
ChampionX USA Inc.	COMPOSITIONS FOR ENHANCED OIL RECOVERY	{20220106515}	{4/7/2022}
	OIL RECOVER I	17/552858	12/16/2021
ChampionX USA Inc.	FLUID DIVERSON COMPOSITION	{20210122967}	{4/29/2021}
Champion X OSA me.	IN WELL STIMULATION	(20210122)013	\ -1/2//2021 }
	III WEED STIME ENTROIT	17/139539	12/31/2020
ChampionX USA Inc.	ALKYL LACTONE-DERIVED	{20210246360}	{8/12/2021}
	CORROSION INHIBITORS		(
		17/234601	4/19/2021
ChampionX USA Inc.	USE OF MULTIPLE CHARGED	{20210332288}	{10/28/2021}
_	CATIONIC COMPOUNDS DERIVED		
	FROM POLYAMINES FOR CLAY	17/305069	6/30/2021
	STABILIZATION IN OIL AND GAS		
	OPERATIONS		
Harbison-Fisher, Inc.	BALL CHECK-VALVE FOR LINEAR	{20220090470}	{3/24/2022}
	RECIPROCATING DOWNHOLE	17/403753	0/22/2021
III. delinen El 1 II	PUMPS	17/483753	9/23/2021
Harbison-Fisher, Inc.	PARTICULATE SEPARATOR FOR	{20200308950}	{10/1/2020}
	PRODUCTION WELLS	16/826029	3/20/2020
PCS Ferguson, Inc.	TORPEDO PLUNGER		
res reiguson, inc.	I OKFEDO PLUNGER	{20220112792}	{4/14/2022}

		Pat. No./	Issue Date
Registered Owner	Title	Publ. No. /	Pub. Date
Ī		Appl. No.	App. Date
		17/483430	9/23/2021
PCS Ferguson, Inc.	GAS LIFT VALVE AGING PROCESS AND APPARATUS	{20210246769}	{8/12/2021}
		17/156765	1/25/2021
US Synthetic Corporation	POLYCRYSTALLINE DIAMOND TABLES AND COMPACTS AND	{20220001348}	{1/6/2022}
	RELATED METHODS	17/479553	9/20/2021
US Synthetic Corporation	BEARING APPARATUS	{20210355991}	{11/18/2021}
		17/244755	4/29/2021
US Synthetic Corporation	SHEAR CUTTER PICK MILLING SYSTEM	{20210262179}	{8/26/2021}
		17/234400	4/19/2021
US Synthetic Corporation	ASSEMBLIES AND APPARATUSES INCLUDING SUPERHARD	{20210239159}	{8/5/2021}
	ELEMENTS	17/237017	4/21/2021
US Synthetic Corporation	CORROSION RESISTANT BEARING ELEMENTS, BEARING	{20210131488}	{5/6/2021}
	ASSEMBLIES, BEARING APPARATUSES, AND MOTOR ASSEMBLIES USING THE SAME	17/148145	1/13/2021
US Synthetic Corporation	BEARING ASSEMBLIES, RELATED BEARING APPARATUSES, AND	{20210381549}	{12/9/2021}
	RELATED METHODS	17/238472	4/23/2021
US Synthetic Corporation Ulterra Drilling Technologies,	SHAPED CUTTERS	11255129	2/22/2022
L.P.		16/249824	1/16/2019
US Synthetic Corporation	SUPERABRASIVE COMPACTS, METHODS OF MAKING THE SAME,	{20200256133}	{8/13/2020}
	AND APPARATUSES USING THE SAME	16/787214	2/11/2020
US Synthetic Corporation	CUTTING TOOL	D908753	1/26/2021
		29/723823	2/11/2020
US Synthetic Corporation	CUTTING TOOL	D914070	3/23/2021
		29/723822	2/11/2020
US Synthetic Corporation	DRILL BIT	D947910	4/5/2022
		29/786961	6/3/2021

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Patent Applications

Registered Owner	Title	Appl. No.	App. Date
Apergy BMCS Acquisition Corporation	PERCUSSION DRILL BIT WITH AT LEAST ONE WEAR INSERT, RELATED SYSTEMS, AND METHODS	17/455804	11/19/2021
Apergy BMCS Acquisition Corporation	MATERIAL-REMOVAL SYSTEMS, CUTTING TOOLS THEREFOR, AND RELATED METHODS	17/306704	5/3/2021
Harbison-Fisher, Inc.	BALL CHECK-VALVE FOR LINEAR RECIPROCATING DOWNHOLE PUMPS	17/691051	3/9/2022
Harbison-Fisher, Inc.	SHEAR COUPLING FOR SUCKER ROD STRING	17/550221	12/14/2021
Norris Rods, Inc.	GEAR ROD ROTATOR SYSTEMS	17/589765	1/31/2022
PCS-Ferguson, Inc.	BEARING ASSEMBLIES, APPARATUSES, DEVICES, SYSTEMS, AND METHODS INCLUDING BEARINGS	17/549628	12/13/2021
Theta Oilfield Services, Inc.	DEVICES, SYSTEMS, AND METHODS FOR DETECTING THE ROTATION OF ONE OR MORE COMPONENTS FOR USE WITH A WELLBORE	17/549519	12/13/2021
US Synthetic Corporation	LEACHED SUPERABRASIVE ELEMENTS AND SYSTEMS, METHODS AND ASSEMBLIES FOR PROCESSING SUPERABRASIVE MATERIALS	16/993055	8/13/2020
US Synthetic Corporation	LEACHED SUPERABRASIVE ELEMENTS AND SYSTEMS, METHODS AND ASSEMBLIES FOR PROCESSING SUPERABRASIVE MATERIALS	17/592388	2/3/2022
US Synthetic Corporation	MULTI-PART SUPERABRASIVE COMPACTS, ROTARY DRILL BITS INCLUDING MULTI-PART SUPERABRASIVE COMPACTS, AND RELATED METHODS	17/451535	10/20/2021
US Synthetic Corporation	LEACHED SUPERABRASIVE ELEMENTS AND SYSTEMS, METHODS AND ASSEMBLIES FOR PROCESSING SUPERABRASIVE MATERIALS	16/909838	6/23/2020
US Synthetic Corporation	LEACHED SUPERABRASIVE ELEMENTS AND LEACHING SYSTEMS METHODS AND ASSEMBLIES FOR PROCESSING SUPERABRASIVE ELEMENTS	17/061419	10/1/2020

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Registered Owner	Title	Appl. No.	App. Date
US Synthetic Corporation	METHODS OF PROCESSING A POLYCRYSTALLINE DIAMOND ELEMENT	17/518100	11/3/2021
US Synthetic Corporation	SYSTEMS AND METHODS FOR MOUNTING A CUTTER IN A DRILL BIT	17/360704	6/28/2021
US Synthetic Corporation	POLYCRYSTALLINE DIAMOND COMPACT AND APPLICATIONS THEREFOR	17/323537	5/18/2021
US Synthetic Corporation	RADIAL BEARING	29/734635	5/14/2020
US Synthetic Corporation	RADIAL BEARING	29/734689	5/14/2020
US Synthetic Corporation	DRILL BIT	29/830851	3/15/2022
US Synthetic Corporation	BEARING ASSEMBLIES, REALTED BEARING APPARATUSES AND RELATED METHODS	17/587734	1/28/2022
US Synthetic Corporation	POLYCRYSTALLINE DIAMOND COMPACTS, METHODS OF MAKING SAME, AND APPLICATIONS THEREFOR	17/550864	12/14/2021
US Synthetic Corporation	CUTTING TOOL WITH PCD INSERTS, SYSTEMS INCORPORATING SAME AND RELATED METHODS	17/678819	2/23/2022
US Synthetic Corporation	METHODS OF LEACHING A SUPERABRASIVE BODY AND APPARATUSES AND SYSTEMS FOR THE SAME	17/707569	3/29/2022
US Synthetic Corporation	NOZZLES, NOZZLE ASSEMBLIES INCLUDING THE SAME, AND METHODS OF USING THE SAME	17/713161	4/4/2022
US Synthetic Corporation	NOZZLES INCLUDING POLYCRYSTALLINE DIAMOND OR POLYCRYSTALLINE CUBIC BORON NITRIDE	17/713170	4/4/2022
US Synthetic Corporation	POLYCRYSTALLINE DIAMOND COMPACTS AND METHODS OF FABRICATING SAME	16/935475	7/22/2020
US Synthetic Corporation	SUPERHARD COMPACTS, ASSEMBLIES INCLUDING THE SAME, AND METHODS INCLUDING THE SAME	17/021752	9/15/2020
US Synthetic Corporation	MATERIAL-REMOVAL SYSTEMS, CUTTING TOOLS, THEREFOR, AND RELATED METHODS	17/034257	9/28/2020
US Synthetic Corporation	CUTTING TOOL	29/760765	12/3/2020
US Synthetic Corporation	PICK	29/769089	2/3/2021
US Synthetic Corporation	POLYCRYSTALLINE DIAMOND	17/680729	2/25/2022

Registered Owner	Title	Appl. No.	App. Date
	BODIES INCLUDING ONE OR MORE		
	THREADS, APPARATUSES		
	INCLUDING THE SAME, AND		
	METHODS OF FORMING AND		
	USING THE SAME		
US Synthetic Corporation	BEARING ASSEMBLIES,	17/401112	8/12/2021
	APPARATUSES, AND METHODS	17,101112	0,12,2021
	INCLUDING BEARING ELEMENTS		
US Synthetic Corporation	TORQUE COUPLING ASSEMBLIES	17/401030	8/12/2021
	AND RELATED SYSTEMS AND		· · · · · · · · · · · · · · · · · · ·
	METHODS		
US Synthetic Corporation	ASSEMBLIES AND METHODS OF	17/363410	6/30/2021
	FORMING POLYCRYSTALLINE	177505110	0,20,2021
	DIAMOND USING SUCH		
	ASSEMBLIES		
US Synthetic Corporation	BEARING ASSEMBLIES,	17/318365	5/12/2021
	APPARATUSES, AND METHODS	177510505	3/12/2021
	INCLUDING BEARING ELEMENTS		
US Synthetic Corporation	RADIALLY ADJUSTABLE RADIAL	US2021/013627	01/15/2021
	PDC BEARINGS	052021/013027	01/13/2021
US Synthetic Corporation	ATTACHMENT OF PDC BEARING	US2021/031561	5/10/2021
	MEMBERS, BEARING ASSEMBLIES	052021/031301	3/10/2021
	INCORPORATING SAME AND		
	RELATED METHODS		
ChampionX USA Inc.	IMIDAZOLINE-DERIVED	US2021/038902	6/24/2021
	COMPOUNDS AND USE AS	052021/030702	0/2 1/2021
	NATURAL GAS HYDRATE		
	INHIBITORS		
Harbison-Fischer, Inc.	SHEAR COUPLING FOR SUCKER	US2021/063349	1/7/2022
120101011111111111111111111111111111111	ROD STRING	052021/003349	1///2022
PCS Ferguson, Inc.	SINGLE PILOT FLUID LINE	63/309936	2/14/2022
1 es reiguson, me.	ACTUATION GAS LIFT VALVE AND	03/307730	2/14/2022
	RELATED SYSTEMS AND		
	METHODS (Gas Lift Valve Patent		
	Application)		
US Synthetic Corporation	SUPERHARD CUTTING ELEMENTS,	63/320914	3/17/2022
es synaneure corporation	CUTTING TOOLS INCLUDING THE	03/320714	3/17/2022
	SAME, AND METHODS OF USING		
	THE SAME		
US Synthetic Corporation	POLYCRYSTALLINE DIAMOND	63/318663	3/11/2022
ob by milette corporation	ELEMENT INCLUDING AT LEAST	05/516005	3/11/2022
	ONE LEACHING FEATURE,		
	CUTTING TOOL INSERTS AND		
	SYSTEMS INCORPORATING SAME,		
	AND RELATED METHODS		
	THE RELATED METHODS		

PATENT REEL: 060313 FRAME: 0472 **RECORDED: 06/08/2022**

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