

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM382465

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
CARBO Ceramics Inc.		04/27/2016	Corporation:
Falcon Technologies and Services, Inc.		04/27/2016	Corporation:
Stratagen, Inc.		04/27/2016	Corporation:

RECEIVING PARTY DATA

Name:	Wells Fargo Bank, National Association
Street Address:	1000 Louisiana Street, 9th Floor
City:	Houston
State/Country:	TEXAS
Postal Code:	77002
Entity Type:	National Banking Association: UNITED STATES

PROPERTY NUMBERS Total: 59

Property Type	Number	Word Mark
Serial Number:	75633865	ACCUCAST
Serial Number:	86569475	AIR
Serial Number:	85482696	BAKKENWORX
Serial Number:	77793399	CARBO
Serial Number:	78525728	CARBO CERAMICS
Serial Number:	78525738	CARBO CERAMICS
Serial Number:	77410989	CARBO HYDROPROP
Serial Number:	77253845	CARBO ISP
Serial Number:	73670832	CARBO LITE
Serial Number:	76536576	CARBOACCUCAST
Serial Number:	77406478	CARBOBOND
Serial Number:	76536577	CARBOECONOPROP
Serial Number:	76536575	CARBO HSP
Serial Number:	76536578	CARBO LITE
Serial Number:	73517297	CARBOPROP
Serial Number:	76536579	CARBO PROP
Serial Number:	78897283	CARBOTAG

TRADEMARK

Property Type	Number	Word Mark
Serial Number:	85162355	DATA AND NEURAL ANALYSIS
Serial Number:	86116671	DESIGN THE FRAC, BUILD THE FRAC, OPTIMIZ
Serial Number:	86116664	DESIGN, BUILD, AND OPTIMIZE THE FRAC
Serial Number:	77894512	ECONOMIC CONDUCTIVITY
Serial Number:	86064555	ECONOMIC CONDUCTIVITY
Serial Number:	74292243	ECONOPROP
Serial Number:	85482764	EFWORX
Serial Number:	85684568	ENGINEERED TO PROTECT
Serial Number:	85510295	ENGINEERED TO PROTECT
Serial Number:	86630096	EVERGUARD
Serial Number:	85137619	FALCON LINER
Serial Number:	85137617	FALCON LINER
Serial Number:	85306134	FALCON TECHNOLOGIES
Serial Number:	85306156	FALCON TECHNOLOGIES
Serial Number:	74675087	FRACPRO
Serial Number:	73728600	FRACPRO
Serial Number:	85056154	FRACPROPT
Serial Number:	86655412	FUSION
Serial Number:	86745617	GROUNDGUARD
Serial Number:	86705182	H2SGUARD
Serial Number:	76536580	HSP
Serial Number:	77232687	HYDROPROP
Serial Number:	77648909	IPROP
Serial Number:	85849710	KRYPTOSPHERE
Serial Number:	76536581	LITE
Serial Number:	86515498	LITE
Serial Number:	86705185	LOCATIONGUARD
Serial Number:	85720042	
Serial Number:	85880337	MORE SPACE TO FLOW
Serial Number:	85482805	NETWORK
Serial Number:	85062952	NRT
Serial Number:	86709995	PARAGUARD
Serial Number:	86705191	PORTAGUARD
Serial Number:	76536582	PROP
Serial Number:	86563538	SALTGUARD
Serial Number:	85953596	SCALEGUARD
Serial Number:	86705183	SITEGUARD
Serial Number:	86688407	STIMPRO

Property Type	Number	Word Mark
Serial Number:	77674984	STRATAGEN
Serial Number:	86559375	TANKGUARD
Serial Number:	78227395	ULTRALITE
Serial Number:	86705190	WATERGUARD

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: 713-223-2300
Email: brandie.martin@bracewelllaw.com
Correspondent Name: Bracewell LLP
Address Line 1: 711 Louisiana Street, Suite 2300
Address Line 4: Houston, TEXAS 77002

ATTORNEY DOCKET NUMBER:	088599.000041
NAME OF SUBMITTER:	Traci Landgraf
SIGNATURE:	/constance g. rhebergen/
DATE SIGNED:	04/29/2016

Total Attachments: 15

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PATENT AND TRADEMARK SECURITY AGREEMENT

This Patent and Trademark Security Agreement dated as of April 27, 2016 (this "Patent and Trademark Security Agreement") is made by and among CARBO Ceramics Inc., a Delaware corporation (the "Borrower"), certain Material Domestic Subsidiaries of the Borrower party hereto from time to time (collectively with the Borrower, the "Grantors" and individually, a "Grantor"), and Wells Fargo Bank, National Association, as administrative agent (in such capacity, the "Administrative Agent") for the ratable benefit of the Secured Parties. Capitalized terms used herein and not otherwise defined herein shall have the meanings assigned to such terms in the Credit Agreement (as defined below) and the Pledge and Security Agreement (as defined below), as applicable.

Preliminary Statement

The Borrower and the Administrative Agent are parties to the Credit Agreement, dated as of January 29, 2010 (as amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among the Borrower, the lenders party thereto from time to time (the "Lenders") and Wells Fargo Bank, National Association, as the Administrative Agent, as Issuing Lender and as Swing Line Lender.

The Grantors own or are a party to, as applicable, the Patent Collateral and Trademark Collateral listed on Schedule I annexed hereto and by this reference incorporated herein.

Pursuant to the terms of that certain Amended and Restated Pledge and Security Agreement, dated as of April 27, 2016 (as the same may be amended and in effect from time to time, the "Pledge and Security Agreement"), among the grantors party thereto from time to time (the "Pledge and Security Grantors") in favor of the Administrative Agent for the ratable benefit of the Secured Parties, the Pledge and Security Grantors have granted a security interest in the Collateral, including, without limitation, all right, title and interest of the Grantors in, to, and under all now owned and hereafter acquired Patent Collateral and Trademark Collateral, set forth on Schedule I attached hereto, to secure the payment of all Secured Obligations.

Agreement

Section 1.1 NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor hereby grants to the Administrative Agent for the ratable benefit of the Secured Parties a continuing security interest in all of such Grantor's right, title and interest in, to and under, all of the following, whether now owned or hereafter acquired by such Grantor, and wherever located and whether now owned or hereafter existing or arising (the "Patent and Trademark Collateral"):

(a) (i) all inventions and discoveries, whether patentable or not, all letters patent and applications for letters patent throughout the world, including those patents and patent applications referred to in Schedule I hereto, (ii) all reissues, divisions, continuations, continuations in part, extensions, renewals and reexaminations of any of the items described in clause (i), (iii) all patent licenses, and other agreements providing any Grantor with the right to use any items of the type referred to in clauses (i) and (ii) above, and (iv) all proceeds of, and rights associated with, the foregoing (including licenses, royalties income, payments, claims, damages and proceeds of infringement suits), the right to sue third parties for past, present or future infringements of any patent or patent application, and for breach or enforcement of any patent license; and

(b) (i) (A) all trademarks, trade names, corporate names, company names, business names, fictitious business names, trade styles, service marks, certification marks, collective marks, logos and other source or business identifiers, and all goodwill of the business associated therewith, now existing or hereafter adopted or acquired, including those trademarks referred to in Schedule I hereto, whether currently in use or not, all registrations and recordings thereof and all applications in connection therewith, whether pending or in preparation for filing, including registrations, recordings and applications in the United States Patent and Trademark Office or in any office or agency of the United States of America, or any State thereof or any other country or political subdivision thereof or otherwise, and all common-law rights relating to the foregoing, and (B) the right to obtain all reissues, extensions or renewals of the foregoing (collectively referred to as the "Trademarks" and each, a "Trademark"), (ii) all Trademark licenses for the grant by or to any Grantor of any right to use any Trademark, (iii) all of the goodwill of the business connected with the use of, and symbolized by the items described in, clause (i), and to the extent applicable clause (ii), (iv) the right to sue third parties for past, present and future infringements of any Trademark Collateral described in clause (i) and, to the extent applicable, clause (ii), and (v) all Proceeds of, and rights associated with, the foregoing, (including licenses, royalties, income, payments, claims, damages and proceeds of infringement suits), the right to sue third parties for past, present or future infringement or dilution of any Trademark, Trademark registration or Trademark license, or for any injury to the goodwill associated with the use of any such Trademark or for breach or enforcement of any Trademark license and all rights corresponding thereto throughout the world;

provided, however, that notwithstanding anything to the contrary contained in Section 1.1, Excluded Collateral shall be excluded from the Lien and security interest granted hereunder (and shall, as applicable, not be included as "Collateral" or any component of the definition thereof for purposes of the Credit Documents); provided, however, that (x) the exclusion from the Lien and security interest granted by any Grantor hereunder of any Excluded Collateral shall not limit, restrict or impair the grant by such Grantor of the Lien and security interest in any accounts or receivables arising under any such Excluded Collateral or any payments due or to become due thereunder unless the conditions in effect which qualify such Property as an Excluded Collateral applies with respect to such accounts and receivables and (y) any proceeds received by any Grantor from the sale, transfer or other disposition of any Excluded Collateral shall constitute Collateral unless the conditions in effect which qualify such Property as an Excluded Collateral applies with respect to such proceeds.

Section 1.2 This Patent and Trademark Security Agreement has been executed and delivered by the Grantors for the purpose of recording the security interest granted hereunder with the United States Patent and Trademark Office. This security interest is granted in conjunction with the security interests granted to the Administrative Agent for the ratable benefit of the Secured Parties pursuant to the Pledge and Security Agreement. The Grantors hereby acknowledge and affirm that the rights and remedies of Secured Parties with respect to the security interest in the Patent and Trademark Collateral 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.


Section 1.3 The Grantors authorize and request that the United States Patent and Trademark Office and any other applicable government office record this Patent and Trademark Security Agreement.

[Remainder of this page intentionally left blank. Signature pages to follow.]


IN WITNESS WHEREOF, the Administrative Agent and each Grantor has caused this Patent and Trademark Security Agreement to be duly executed by its duly authorized officer as of the date first above written.

GRANTORS:

CARBO CERAMICS INC.

By: 
Ernesto Bautista III
Vice President and Chief Financial Officer

FALCON TECHNOLOGIES AND SERVICES, INC.

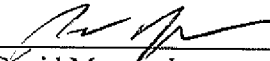
By: 
Ernesto Bautista III
Vice President and Chief Financial Officer

STRATAGEN, INC.

By: 
Ernesto Bautista III
Vice President and Chief Financial Officer

ADMINISTRATIVE AGENT:

WELLS FARGO BANK, NATIONAL ASSOCIATION,
as Administrative Agent

By: 
Name: David Maynard
Title: Senior Vice President

Signature Page to
Patent and Trademark Security Agreement

SCHEDULES:

Schedule I Item A-Patent Collateral
 Item B-Trademark Collateral

Schedule I

Item A – Patent Collateral

[See Attached]

Current Owner	Title	Country	Status	Appln Number	Appln Date	Nat'l Filing Date	Patent Number	Grant Date	Expiration Date	Inventors	Alternate Matter No
StrataGen, Inc.	WELLBORE	United States	GRANTED	13/604,367	09/05/2012	09/05/2012	9,262,713	02/16/2016	09/05/2032	SHELLEY, Robert	CARBO/0028US

Current Owner	Title	Country	Status	Sub Status	Sub Status Date	Appln Number	Appln Date	Int'l Filing Date	Patent Number	Grant Date	Expiration Date	Inventors	Alternate Matter No
Falcon Technologies and Services, Inc	IMPROVED TANK BASE	Canada	FILED			2,682,862	10/19/2009	02/04/2009	8,794,052	05/27/2014	01/04/2032	KRIEGSHAUSSER, Tim ;	FALC/0003CA
Falcon Technologies and Services, Inc	TANK BASE	United States	GRANTED			12,965,781	02/04/2009	02/04/2009				KRIEGSHAUSSER, Tim ;	FALC/0003US
Falcon Technologies and Services, Inc	TANK BASE	United States	FILED	ALLOWED	04/16/2016	14,285,898	05/23/2014	05/23/2014				KRIEGSHAUSSER, Tim ;	FALC/0004US01
Falcon Technologies and Services, Inc	TANK BASE	United States	FILED			29,602,259	09/12/2014	09/12/2014				SHENG, Jack ; PERKINS, Larry	FALC/0004US02
Falcon Technologies and Services, Inc	SECONDARY CONTAMMENT	United States	FILED	ALLOWED		14,285,708	05/29/2014	05/29/2014	7,494,458	02/24/2009	04/28/2027	SHENG, Jack ; PERKINS, Larry	FALC/0005US
Falcon Technologies and Services, Inc	METHOD OF CONSTRUCTING	United States	GRANTED			11,426,986	06/28/2006	06/28/2006				PERKINS, Larry L	FALC/0006US
Falcon Technologies and Services, Inc	METHOD OF CONSTRUCTING	United States	GRANTED			12,991,106	02/23/2009	02/23/2009	7,982,423	04/12/2011	10/09/2026	PERKINS, Larry L	FALC/0006US02

Cairo Ceramics, Inc	SYSTEMS AND METHODS FOR REMOVAL OF ELECTROMAGNETIC DISPERSION AND ATTENUATION SYSTEMS AND METHODS FOR REMOVAL OF ELECTROMAGNETIC DISPERSION AND ATTENUATION SYSTEMS AND METHODS FOR REMOVAL OF ELECTROMAGNETIC DISPERSION AND ATTENUATION SYSTEMS AND METHODS FOR REMOVAL OF ELECTROMAGNETIC DISPERSION AND ATTENUATION	Argentina	PCT	FILED	IP 00 02895	08/12/2015	08/12/2015							BARTTEL, Lewis C.	CARBO/00224R	AR
Cairo Ceramics, Inc	SYSTEMS AND METHODS FOR REMOVAL OF ELECTROMAGNETIC DISPERSION AND ATTENUATION SYSTEMS AND METHODS FOR REMOVAL OF ELECTROMAGNETIC DISPERSION AND ATTENUATION SYSTEMS AND METHODS FOR REMOVAL OF ELECTROMAGNETIC DISPERSION AND ATTENUATION	United States	FILED	FILED	14860/75	07/08/2015	07/08/2015							BARTTEL, Lewis C.	CARBO/00223C	US
Cairo Ceramics, Inc	SPECTRAL IDENTIFICATION OF PROPPANT IN SUBTERRANEAN FRACTURE ZONES	United States	PCT	FILED	14862/40	09/02/2011	09/02/2011							BARTTEL, Lewis C.	CARBO/00223S	US
Cairo Ceramics, Inc	SPECTRAL IDENTIFICATION OF PROPPANT IN SUBTERRANEAN FRACTURE ZONES	Mexico	FILED	FILED	24,810	09/02/2011	09/02/2011							BARTTEL, Lewis C.	CARBO/00223H	MX
Cairo Ceramics, Inc	SPECTRAL IDENTIFICATION OF PROPPANT IN SUBTERRANEAN FRACTURE ZONES	United States	GRANTED	GRANTED	MX/02/010/03741	09/02/2011	09/02/2011							BARTTEL, Lewis C.	CARBO/00223P	RU
Cairo Ceramics, Inc	LOW BULK DENSITY PROPPANT AND METHODS FOR PRODUCING THE SAME	United States	GRANTED	GRANTED	13,837,406	09/20/2011	04/29/2013	32526	11/10/2014	09/29/2031				SMITH, Henry D.; DUENCKEL, Robert J.	CARBO/00231P	US
Cairo Ceramics, Inc	LOW BULK DENSITY PROPPANT AND METHODS FOR PRODUCING THE SAME	United States	GRANTED	GRANTED	14,444,828	09/20/2017	08/30/2017	8,648,309	02/11/2014	09/20/2031				SMITH, Henry D.; DUENCKEL, Robert J.	CARBO/00231S	US
Cairo Ceramics, Inc	LOW DENSITY PROPPANT AND METHODS FOR MAKING AND USING SAME	United States	GRANTED	GRANTED	2,444,828	10/10/2010	10/10/2010	8,683,000	05/11/2011	01/12/2023				SMITH, Henry D.; DUENCKEL, Robert J.	CARBO/00231U	US
Cairo Ceramics, Inc	TITANIUM DIOXIDE SCOURING MEDIA AND METHOD OF PRODUCTION	United States	FILED	FILED	10,098,189	10/10/2010	10/10/2010	2,444,828	05/11/2011	10/10/2023				PALAMARA, Thomas C.; CANNAN, Chad	CARBO/00231X	US
Cairo Ceramics, Inc	TITANIUM DIOXIDE SCOURING MEDIA AND METHOD OF PRODUCTION	United States	FILED	FILED	14,990,349	11/24/2015	11/24/2015	7,038,991	06/02/2006	02/29/2018				PALAMARA, Thomas C.; CANNAN, Chad	CARBO/00231Y	US
Cairo Ceramics, Inc	SMART FLUIDS FOR USE IN HYDRAULIC FRACTURING	United States	GRANTED	GRANTED	11,098,329	04/30/2013	02/24/2015	5,944,291	10/12/2016	09/29/2018				BRATUSE, Claude; CANOVA, Steve	CARBO/00231Z	US
Cairo Ceramics, Inc	SMART FLUIDS FOR USE IN HYDRAULIC FRACTURING	United States	FILED	FILED	10,936,273	09/24/2013	05/26/2015	7,256,815	06/14/2012	03/26/2025				BRATUSE, Claude; CANOVA, Steve; WOODCOCK, William Scott; BRATUSE, Claude	CARBO/00231A	US
Cairo Ceramics, Inc	METHODS FOR PRODUCING SOLID CERAMIC PARTICLES USING A MICROWAVE FIRING PROCESS	United States	FILED	FILED	14,861,036	12/07/2015	12/07/2015	7,19,089	10/10/2016	03/26/2025				CANNAN, Chad; BARTTEL, Lewis C.	CARBO/00301S	US
Cairo Ceramics, Inc	METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES AND METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES	United States	GRANTED	GRANTED	13,872,488	09/20/2011	02/25/2011	8,614,157	12/24/2013	04/02/2032				CANNAN, Chad; WILSON, Brent A.; ELDRED, Jimmy	CARBO/00311S	US
Cairo Ceramics, Inc	METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES AND METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES	United States	GRANTED	GRANTED	11,775,671	07/10/2017	02/25/2011	7,828,998	11/09/2010	11/21/2032				POPE, William H.; CANNAN, Chad; WOOD, Jimmy	CARBO/00311U	US
Cairo Ceramics, Inc	METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES AND METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES	United States	GRANTED	GRANTED	11,868,230	02/01/2006	03/01/2006	7,818,172	11/10/2010	05/25/2021				LUSCHER, Walter G.; HELLMANN, Jeff R. ;	CARBO/00311V	US
Cairo Ceramics, Inc	METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES AND METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES	United States	GRANTED	GRANTED	11,775,671	07/10/2017	02/25/2011	5,823,925	05/17/2011	09/28/2024				PALAMARA, Thomas C.; WILSON, Brent A.	CARBO/00311W	US
Cairo Ceramics, Inc	METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES AND METHODS FOR PRODUCING SOLID CERAMIC PARTICLES FROM A SLURRY OF NANALUMINA-COATED PARTICLES	United States	GRANTED	GRANTED	11,775,671	07/10/2017	02/25/2011	7,391,756	09/17/2010	07/17/2033				WILSON, Benjamin T.; WILSON, Brent A.;	CARBO/00311X	US
Cairo Ceramics, Inc	METHODS FOR MAKING PROPPANT PARTICLES FROM SLURRY DROPLETS AND METHODS OF USE	PCT	FILED	FILED	FCT/02/018/022155	09/11/2016	09/11/2016							ELDRED, Benjamin T.; WILSON, Brent A.;	CARBO/00391S	PCT
Cairo Ceramics, Inc	METHODS FOR MAKING PROPPANT PARTICLES FROM SLURRY DROPLETS AND METHODS OF USE	United States	FILED	FILED	15,006,398	09/10/2016	03/10/2016	007,884	02/27/2017	03/14/2028				DUENCKEL, Robert J.	CARBO/00317A	EA
Cairo Ceramics, Inc	PROPPANTS AND METHOD OF THEIR MANUFACTURE	European Patent Conv	GRANTED	GRANTED	20,800,004.15	05/14/2015	08/23/2015							BRATUSE, Claude; EL DRED, Benjamin T.; CANOVA, Steve	CARBO/00381S	US
Cairo Ceramics, Inc	PROPPANTS AND METHOD OF THEIR MANUFACTURE	United States	FILED	FILED	62,294,438	10/30/2015	10/30/2015							BRATUSE, Claude; EL DRED, Benjamin T.; CANOVA, Steve	CARBO/00391C	US
Cairo Ceramics, Inc	PROPPANTS AND METHOD OF THEIR MANUFACTURE	United States	FILED	FILED	62,294,438	12/07/2015	12/07/2015							BRATUSE, Claude; EL DRED, Benjamin T.; CANOVA, Steve	CARBO/00391E	US
Cairo Ceramics, Inc	PROPPANT COMPOSITIONS AND METHODS OF USE	PCT	FILED	FILED	FCT/02/019/006831	09/11/2014	09/11/2014	009,983	08/30/2016	09/29/2025				BRATUSE, Claude; EL DRED, Benjamin T.; CANOVA, Steve	CARBO/00391F	PCT
Cairo Ceramics, Inc	PROPPANT COMPOSITIONS AND METHODS OF USE	United States	FILED	FILED	FCT/02/019/006831	09/11/2014	09/11/2014							BRATUSE, Claude; EL DRED, Benjamin T.; CANOVA, Steve	CARBO/00391G	US
Cairo Ceramics, Inc	PROPPANT AND ITS APPLICATION	Russian Federation	GRANTED	GRANTED	2013104964	02/05/2013	02/05/2013	2521880	07/10/2014	02/05/2033				BRATUSE, Claude; EL DRED, Benjamin T.; CANOVA, Steve; CANNAN, Chad; WILSON, Brent A.	CARBO/00341A	RU

Item B – Trademark Collateral

Credit Party	Jurisdiction	Trademark	Registration Date	Registration Number	Record Owner
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[See attached]

Carbo Ceramics, Inc.
Trademark Status Chart
April 21, 2016

HB Ref.	Country	Mark	Class(es)	Filing Date	App. No.	Reg. Date	Reg. No.	Status	Record Owner	Credit Party	Next Deadline
34955.407	Algeria	NRT	1	2/28/2011	110624	2/28/2011	79519	Registered	CCI	CCI	Renewal due 2/28/2021
34955.399	Angola	NRT	1	2/9/2011	27503/11			Pending	CCI	CCI	Awaiting Certificate of Registration
34955.429	Argentina	KRYPTOSPHERE	19	10/30/2013	3287872	11/10/2014	2692151	Registered	CCI	CCI	Renewal due 11/10/2024
34955.437	Australia	KRYPTOSPHERE	19	10/18/2013	1594048	5/28/2014	1183255	Registered	CCI	CCI	Renewal due 10/18/2023
34955.395	Bahrain	NRT	1	12/23/2010	1065984	12/23/2010	1065984	Registered	CCI	CCI	Renewal due 12/23/2020
34955.353	Brazil	CARBO ISP	19	12/19/2007	829519823	8/2/2011	829519823	Registered	CCI	CCI	Renewal due 8/2/2021
34955.430	Brazil	KRYPTOSPHERE	19	11/29/2013	840723849			Pending	CCI	CCI	Awaiting Certificate of Registration
34955.364	Canada	ECONOMIC CONDUCTIVITY	n/a	9/3/2008	1409274	8/19/2011	TMA804855	Registered	CCI	CCI	Renewal due 8/19/2026
34955.413	Canada	FALCON TECHNOLOGIES	n/a	9/20/2011	1544273			Pending	FTSI	FTSI	Declaration of Use and registration fee due 9/20/2016
34955.418	Canada	FRACPRO	n/a	2/15/2012	1564366	3/15/2013	TMA846388	Registered	STRATAGEN	STRATAGEN	Renewal due 3/15/2028
34955.359	Canada	HYDROPROP	n/a	3/25/2008	1388527	5/26/2009	TMA740804	Registered	CCI	CCI	Renewal due 5/26/2024
34955.431	Canada	KRYPTOSPHERE	n/a	2/21/2014	1665017			Pending	CCI	CCI	Declaration of Use and registration fee due 2/21/2017
34955.401	Canada	NRT	n/a	12/22/2010	1508966	11/26/2012	TMA836967	Registered	CCI	CCI	Renewal due 11/26/2027
34955.380	China	CARBO	19	6/21/2000	20000088598	8/28/2001	1624235	Registered	CCI	CCI	Renewal due 8/27/2021
34955.385	China	CARBO	1	6/21/2000	20000088597	9/28/2001	1640006	Registered	CCI	CCI	Renewal due 9/27/2021
34955.377	China	CARBO (and Design, in Color)	19	7/10/2000	2000100988	8/21/2001	1620176	Registered	CCI	CCI	Renewal due 8/20/2021
34955.387	China	CARBO (and Design, in Color)	1	7/10/2000	2000100985	3/14/2002	1728080	Registered	CCI	CCI	Renewal due 3/13/2022
34955.376	China	CARBO (in Chinese)	19	6/29/2000	2000093884	8/14/2001	1616874	Registered	CCI	CCI	Renewal due 8/13/2021
34955.386	China	CARBO (in Chinese)	1	6/29/2000	2000093881	3/21/2002	1732033	Registered	CCI	CCI	Renewal due 3/20/2022
34955.410	China	CARBO HYDROPROP	19	5/26/2011	9512032	8/28/2012	9512032	Registered	CCI	CCI	Renewal due 8/28/2022
34955.367	China	CARBO LITE	19	6/24/2009	7494256	10/28/2012	7494256	Registered	CCI	CCI	Renewal due 10/28/2022
34955.379	China	CARBOECONOPROP (Stylized)	19	6/21/2000	2000088600	8/28/2001	1624234	Registered	CCI	CCI	Renewal due 8/28/2021
34955.381	China	CARBOECONOPROP (Stylized)	1	6/21/2000	2000088599	9/28/2001	1640002	Registered	CCI	CCI	Renewal due 9/28/2021
34955.374	China	CARBOHSP (Stylized)	19	6/21/2000	5000088606	8/28/2001	1624231	Registered	CCI	CCI	Renewal due 8/28/2021
34955.384	China	CARBOHSP (Stylized)	1	6/21/2000	2000088605	9/28/2001	1640005	Registered	CCI	CCI	Renewal due 9/28/2021

34955.382	China	CARBOLITE	1	6/21/2000	2000088601	9/28/2001	1640003	Registered	CCI	CCI	Renewal due 9/28/2021
34955.378	China	CARBOPROP (Stylized)	19	6/21/2000	2000088604	8/28/2001	1624233	Registered	CCI	CCI	Renewal due 8/28/2021
34955.383	China	CARBOPROP (Stylized)	1	6/21/2000	2000088603	9/28/2001	1640004	Registered	CCI	CCI	Renewal due 9/28/2021
34955.419	China	FRACPRO	9	2/15/2012	10489598	4/7/2013	10489598	Registered	STRATAGEN	STRATAGEN	Renewal due 4/7/2023
34955.389	China	FRACPROPT	9	7/19/2010	8490014	7/28/2011	8490014	Registered	STRATAGEN	STRATAGEN	Renewal due 7/28/2021
34955.438	China	KRYPTOSPHERE	19	10/18/2013	1183255	8/12/2014	85849710	Registered	CCI	CCI	Renewal due 8/12/2024
34955.393	China	NRT	1	10/13/2010	8735930	10/21/2011	8735930	Registered	CCI	CCI	Renewal due 10/21/2021
34955.402	Colombia	NRT	1	5/10/2011	11-057276	3/22/2012	446516	Registered	CCI	CCI	Renewal due 3/22/2022
34955.351	Egypt	CARBO ISP	19	8/21/2007	205786	4/22/2009	205786	Registered	CCI	CCI	Renewal due 8/21/2017
34955.396	Egypt	NRT	1	12/23/2010	1065984	12/23/2010	1065984	Registered	CCI	CCI	Renewal due 12/23/2020
34955.441	European Union	KRYPTOSPHERE	19	10/18/2013	1183255	11/28/2013	1183255	Registered	CCI	CCI	Renewal due 10/18/2023
34955.355	Indonesia	CARBO ISP	19	11/21/2007	D002007038428	6/29/2010	IDM000254735	Registered	CCI	CCI	Renewal due 11/21/2017
34955.432	Indonesia	KRYPTOSPHERE	19	12/23/2013	2013061877			Pending	CCI	CCI	Awaiting Certificate of Registration
34955.404	Kuwait	NRT	1	5/12/2011	120604			Pending	CCI	CCI	Awaiting Certificate of Registration
34955.354	Mexico	CARBO ISP	19	8/22/2007	876862	4/28/2008	1036866	Registered	CCI	CCI	Renewal due 8/22/2017
34955.390	Mexico	FALCON TECHNOLOGIES	2	8/19/2010	1113472	6/30/2011	1225507	Registered	FTSI	FTSI	Renewal due 8/19/2020
34955.391	Mexico	FALCON TECHNOLOGIES	19	8/19/2010	1113473	4/28/2011	1214216	Registered	FTSI	FTSI	Renewal due 8/19/2020
34955.443	Mexico	KRYPTOSPHERE	19	10/18/2013	1437803	10/18/2013	1183255	Registered	CCI	CCI	Renewal due 10/18/2023
34955.405	Mexico	NRT	1	1/5/2011	1145363	11/16/2011	1252489	Registered	CCI	CCI	Renewal due 1/5/2021
34955.436	Norway	KRYPTOSPHERE	19	10/18/2013	1183255	7/11/2014	1183255	Registered	CCI	CCI	Renewal due 10/18/2023
34955.439	Oman	KRYPTOSPHERE	19	10/18/2013	1183255	10/18/2013	1183255	Registered	CCI	CCI	Renewal due 10/18/2023
34955.397	Oman	NRT	1	12/23/2010	1065984	12/23/2010	1065984	Registered	CCI	CCI	Renewal due 12/23/2020
34955.433	Qatar	KRYPTOSPHERE	19	2/16/2014	87248	12/9/2015	87248	Registered	CCI	CCI	Renewal due 2/16/2024
34955.400	Qatar	NRT	1	5/9/2011	68045	12/17/2013	68045	Registered	CCI	CCI	Renewal due 5/9/2021
34955.343	Russia	ACCUCAST	19	6/28/2004	2004714437	6/30/2005	291648	Registered	CCI	CCI	Renewal due 6/28/2024
34955.341	Russia	CARBO CERAMICS	19	6/28/2004	2004714439	4/28/2006	305835	Registered	CCI	CCI	Renewal due 6/28/2024
34955.347	Russia	CARBOACCUCAST	1	6/28/2004	2004714441	6/9/2005	290423	Registered	CCI	CCI	Renewal due 6/28/2024

34955.346	Russia	CARBOHSP	19	6/28/2004	2004714440	4/25/2005	287638	Registered	CCI	CCI	Renewal due 6/28/2024
34955.344	Russia	CARBOLITE	19	6/28/2004	200471443	7/7/2005	292055	Registered	CCI	CCI	Renewal due 6/28/2024
34955.421	Russia	CARBONRT	1	2/14/2012	2012703873	1/28/2013	479240	Registered	CCI	CCI	Renewal due 2/14/2022
34955.345	Russia	CARBOPROP	19	6/28/2004	2004714442	6/30/2005	291622	Registered	CCI	CCI	Renewal due 6/28/2024
34955.425	Russia	CARBOROSLITE	19	4/3/2013	2013710972	6/9/2015	545439	Registered	CCI	CCI	Renewal due 4/3/2023
34955.342	Russia	ECONOPROP	19	6/28/2004	2004714438	6/30/2005	291621	Registered	CCI	CCI	Renewal due 6/28/2024
34955.420	Russia	FRACPRO	9	2/15/2016	2012704065	3/13/2013	482371	Registered	STRATAGEN	STRATAGEN	Renewal due 2/15/2022
34955.388	Russia	FRACPROPT	9	6/28/2010	2010720882	4/22/2011	435824	Registered	STRATAGEN	STRATAGEN	Renewal due 6/28/2020
34955.440	Russia	KRYPTOSPHERE	19	10/18/2013	1183255	10/27/2014	1183255	Registered	CCI	CCI	Renewal due 10/27/2017
34955.352	Saudi Arabia	CARBO ISP	19	11/27/2007	124304	12/27/2009	1120/53	Registered	CCI	CCI	Renewal due 8/2/2017
34955.434	Saudi Arabia	KRYPTOSPHERE	19	1/5/2014	1435003720	7/19/2014	1435003720	Registered	CCI	CCI	Renewal due 9/12/2023
34955.403	Saudi Arabia	NRT	1	5/16/2011	168039	7/22/2013	143206052	Registered	CCI	CCI	Renewal due 1/19/2021
34955.435	Thailand	KRYPTOSPHERE	1	10/30/2013	915120			Pending	CCI	CCI	Awaiting Certificate of Registration
34955.406	United Arab Emirates (UAE)	NRT	1	12/27/2010	151080	1/20/2013	151080	Registered	CCI	CCI	Renewal due 12/27/2020
34955.331	United States (US)	ACCUCAST	1	2/4/1999	75/633865	4/23/2002	2564064	Registered	CCI	CCI	Renewal due 4/23/2022
34955.475	United States (US)	AIR	19	3/19/2015	86/569475			Pending	CCI	CCI	Statement of Use due 8/25/2016
34955.415	United States (US)	BAKKENWORX	42	11/29/2011	85/482696	7/2/2013	4362011	Registered	STRATAGEN	STRATAGEN	Section 8 & 15 Affidavit of Use due 7/2/2019
34955.368	United States (US)	CARBO	1, 19	7/30/2009	77/793399	3/16/2010	3760877	Registered	CCI	CCI	Renewal due 3/16/2020
34955.327	United States (US)	CARBO CERAMICS	1, 19	12/2/2004	78/525728	3/14/2006	3067746	Registered	CCI	CCI	Renewal due 3/14/2026
34955.340	United States (US)	CARBO CERAMICS (Stylized)	1, 19	12/2/2004	78/525738	3/14/2006	3067747	Registered	CCI	CCI	Renewal due 3/14/2026
34955.357	United States (US)	CARBO HYDROPROP	19	3/3/2008	77/410989	5/26/2009	3628252	Registered	CCI	CCI	Renewal due 5/26/2019
34955.350	United States (US)	CARBO ISP	19	8/13/2007	77/253845	8/9/2011	4009744	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 8/9/2017
34955.334	United States (US)	CARBO LITE	19	7/8/1987	73/670832	5/17/1988	1488463	Registered	CCI	CCI	Renewal due 5/17/2018
34955.326	United States (US)	CARBOACCUCAST (Stylized)	1	7/1/2003	76/536576	8/31/2004	2878829	Registered	CCI	CCI	Renewal due 8/31/2024
34955.358	United States (US)	CARBONBOND	1	2/26/2008	77/406478	2/1/2011	3914676	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 2/1/2017
34955.328	United States (US)	CARBOECONOPROP (Stylized)	19	7/1/2003	76/536577	10/5/2004	2890976	Registered	CCI	CCI	Renewal due 10/5/2024
34955.332	United States (US)	CARBOHSP (Stylized)	19	7/1/2003	76/536575	6/15/2004	2853316	Registered	CCI	CCI	Renewal due 6/15/2024

34955.333	United States (US)	CARBOLITE (Stylized)	19	7/1/2003	76/536578	10/12/2004	2892847	Registered	CCI	CCI	Renewal due 10/12/2024
34955.335	United States (US)	CARBOPROP	19	1/14/1985	73/517297	7/16/1985	1349408	Registered	CCI	CCI	Renewal due 7/16/2025
34955.329	United States (US)	CARBOPROP (Stylized)	19	7/1/2003	76/536579	8/31/2004	2878830	Registered	CCI	CCI	Renewal due 8/31/2024
34955.348	United States (US)	CARBOTAG	1	5/31/2006	78/897283	12/9/2008	3545323	Registered	CCI	CCI	Renewal due 12/9/2018
34955.394	United States (US)	DATA AND NEURAL ANALYSIS	35	10/27/2010	85/162355	3/27/2012	4119759	Registered	STRATAGEN	STRATAGEN	Section 8 & 15 Affidavit of Use due 3/27/2018
34955.446	United States (US)	DESIGN THE FRAC, BUILD THE FRAC, OPTIMIZE THE FRAC	40	11/12/2013	86/116671	2/17/2015	4689693	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 2/17/2021
34955.445	United States (US)	DESIGN, BUILD, AND OPTIMIZE THE FRAC	40	11/12/2013	86/116664	2/17/2015	4689692	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 2/17/2021
34955.369	United States (US)	ECONOMIC CONDUCTIVITY	42	12/16/2009	77/894512	3/23/2010	3765701	Registered	CCI	CCI	Renewal due 3/23/2020
34955.428	United States (US)	ECONOMIC CONDUCTIVITY	42	9/13/2013	86/064555	1/28/2014	4475428	Registered	CCI	CCI	Section 8 & 15 Declaration of Use due 1/28/2020
34955.336	United States (US)	ECONOPROP	19	7/6/1992	74/292243	3/9/1993	1756869	Registered	CCI	CCI	Renewal due 3/9/2023
34955.416	United States (US)	EFWORX	42	11/29/2011	85/482764	7/2/2013	4362012	Registered	STRATAGEN	STRATAGEN	Section 8 & 15 Affidavit of Use due 7/2/2019
34955.422	United States (US)	ENGINEERED TO PROTECT	37	7/23/2012	85/684568	3/12/2013	4301326	Registered	FTSI	FTSI	Section 8 & 15 Affidavit of Use due 3/12/2019
34955.414	United States (US)	ENGINEERED TO PROTECT	40	1/6/2012	85/510295	6/25/2013	4358775	Registered	FTSI	FTSI	Section 8 & 15 Affidavit of Use due 6/25/2019
34955.479	United States (US)	EVERGUARD	37	5/14/2015	86/630096			Pending	CCI	FTSI	Statement of Use due 6/1/2016
34955.373	United States (US)	FALCON LINER	2, 19	9/24/2010	85/137619	8/2/2011	4007583	Registered	FTSI	FTSI	Section 8 & 15 Affidavit of Use due 8/2/2017
34955.392	United States (US)	FALCON LINER (Stylized)	2, 19	9/24/2010	85/137617	8/2/2011	4007582	Registered	FTSI	FTSI	Section 8 & 15 Affidavit of Use due 8/2/2017
34955.408	United States (US)	FALCON TECHNOLOGIES	37	4/27/2011	85/306134	12/27/2011	4076558	Registered	FTSI	FTSI	Section 8 & 15 Affidavit of Use due 12/27/2017
34955.409	United States (US)	FALCON TECHNOLOGIES (and Falcon Design in Color)	37	4/27/2011	85/306156	12/27/2011	4076560	Registered	FTSI	FTSI	Section 8 & 15 Affidavit of Use due 12/27/2017
34955.371	United States (US)	FRACPRO	9	5/17/1995	74/675087	4/30/1996	1971352	Registered	STRATAGEN	STRATAGEN	Renewal due 4/30/2026
34955.370	United States (US)	FRACPRO (Stylized)	9	5/16/1988	73/728600	2/7/1989	1523321	Registered	STRATAGEN	STRATAGEN	Renewal due 2/7/2019
34955.372	United States (US)	FRACPROPT	9	6/7/2010	85/056154	3/8/2011	3928163	Registered	STRATAGEN	STRATAGEN	HB allowing mark to expire.
34955.480	United States (US)	FUSION	1	3/26/1900	86/655412			Pending	CCI	CCI	Statement of Use due 6/1/2016
34955.490	United States (US)	GROUNDGUARD	19	9/2/2015	86/745617			Pending	CCI	FTSI	Response to Office Action due 6/22/2016
34955.484	United States (US)	H2SGUARD	1	7/27/2015	86/705182			Pending	CCI	CCI	Statement of Use due 6/1/2016
34955.337	United States (US)	HSP	19	7/1/2003	76/536580	8/24/2004	2876687	Registered	CCI	CCI	Renewal due 8/24/2024
34955.349	United States (US)	HYDROPROP	19	7/18/2007	77/232687	5/12/2009	3620016	Registered	CCI	CCI	Renewal due 5/12/2019
34955.365	United States (US)	IPROP	19	1/14/2009	77/648909	10/2/2012	4218092	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 10/2/2018

34955.424	United States (US)	KRYPTOSPHERE	19	2/14/2013	85/849710	9/30/2014	4614510	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 9/30/2020
34955.338	United States (US)	LITE (on Supplemental Register)	19	7/1/2003	76/536581	1/18/2005	2920164	Registered	CCI	CCI	Renewal due 1/18/2025
34955.468	United States (US)	LITE	19	1/27/2015	86/515498	9/1/2015	4803807	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 9/1/2021
34955.487	United States (US)	LOCATIONGUARD	37	7/27/2015	86/705185			Pending	CCI	FTSI	Statement of Use due 10/5/2016
34955.423	United States (US)	Swoosh Design	9	9/4/2012	85/720042	4/23/2013	4324335	Registered	STRATAGEN	STRATAGEN	Section 8 & 15 Affidavit of Use due 4/23/2019
34955.426	United States (US)	MORE SPACE TO FLOW	19	3/19/2013	85/880337	10/7/2014	4618214	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 10/7/2020
34955.417	United States (US)	NETWORK	9, 42	11/29/2011	85/482805	2/25/2014	4488917	Registered	STRATAGEN	STRATAGEN	Section 8 & 15 Affidavit of Use due 2/25/2020
34955.375	United States (US)	NRT	1	6/15/2010	85/062952	9/6/2011	4023658	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 9/6/2017
34955.489	United States (US)	PARAGUARD	1	7/30/2015	86/709995			Pending	CCI	CCI	Statement of Use due 6/1/2016
34955.486	United States (US)	PORTAGUARD	6, 19	7/27/2015	86/705191			Pending	CCI	FTSI	Statement of Use due 10/5/2016
34955.339	United States (US)	PROP	19	7/1/2003	76/536582	6/28/2005	2963640	Registered	CCI	CCI	Renewal due 6/28/2025
34955.474	United States (US)	SALTGUARD	1	3/13/2015	86/563538			Pending	CCI	CCI	Statement of Use due 8/25/2016
34955.427	United States (US)	SCALEGUARD	1	6/7/2013	85/953596	1/14/2014	4466137	Registered	CCI	CCI	Section 8 & 15 Affidavit of Use due 1/14/2020
34955.483	United States (US)	SITEGUARD	6, 19	7/27/2015	86/705183			Pending	CCI	FTSI	Statement of Use due 10/5/2016
34955.482	United States (US)	STIMPRO	9	7/9/2015	86/688407	12/22/2015	4874511	Registered	CCI	STRATAGEN	Section 8 & 15 Affidavit of Use due 12/22/2021
34955.366	United States (US)	STRATAGEN	40, 42	2/20/2009	77/674984	5/4/2010	3785900	Registered	STRATAGEN	STRATAGEN	Renewal due 5/4/2020
34955.470	United States (US)	TANKGUARD	17	3/10/2015	86/559375			Pending	CCI	FTSI	Statement of Use due 9/1/2016
34955.330	United States (US)	ULTRALITE	19	3/19/2003	78/227395	9/19/2006	3146161	Registered	CCI	CCI	Renewal due 9/19/2016
34955.485	United States (US)	WATERGUARD	6, 19	10/5/2016	86/705190			Pending	CCI	FTSI	Statement of Use due 10/5/16
34955.356	WIPO (International Registration)	CARBO ISP	19	8/17/2007	936743	8/17/2007	936743	Registered	CCI	CCI	Renewal due 8/17/17
34955.444	WIPO (International Registration)	KRYPTOSPHERE	19	2/14/2013	1183255	10/18/2013	1183255	Registered	CCI	CCI	Renewal due 10/18/2023
34955.398	WIPO (International Registration)	NRT	1	12/23/2010	1065984	12/23/2010	1065984	Registered	CCI	CCI	Renewal due 12/23/2020
	United States (US)	FRACTURE VISION	To be determined	To be determined	To be determined				To be determined	CCI	
	United States (US)	QUANTUM	To be determined	To be determined	To be determined				To be determined	CCI	
	United States (US)	QUANTUM (stylized)	To be determined	To be determined	To be determined				To be determined	CCI	
	United States (US)	PROPPED RESERVOIR VOLUME	To be determined	To be determined	To be determined				To be determined	CCI	