

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6411309

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
FTS INTERNATIONAL SERVICES, LLC	11/19/2020
RECEIVING PARTY DATA	
Name:	WELLS FARGO BANK, NATIONAL ASSOCIATION, AS AGENT
Street Address:	14241 DALLAS PARKWAY
Internal Address:	STE 900
City:	DALLAS
State/Country:	TEXAS
Postal Code:	75254
PROPERTY NUMBERS Total: 3	
Property Type	Number
Patent Number:	7897063
Patent Number:	8105055
Patent Number:	8550102
CORRESPONDENCE DATA	
Fax Number:	(312)863-7867
<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:	3128637267
Email:	jaclyn.digrande@goldbergkohn.com
Correspondent Name:	JACLYN DI GRANDE - PARALEGAL
Address Line 1:	GOLDBERG KOHN LTD.
Address Line 2:	55 E MONROE ST., STE 3300
Address Line 4:	CHICAGO, ILLINOIS 60603
ATTORNEY DOCKET NUMBER:	1989.567
NAME OF SUBMITTER:	JACLYN DI GRANDE
SIGNATURE:	/jaclyn di grande/
DATE SIGNED:	11/19/2020
Total Attachments: 6	
source=FTS - Patent Security Agreement (Executed)#page1.tif	
source=FTS - Patent Security Agreement (Executed)#page2.tif	

source=FTS - Patent Security Agreement (Executed)#page3.tif
source=FTS - Patent Security Agreement (Executed)#page4.tif
source=FTS - Patent Security Agreement (Executed)#page5.tif
source=FTS - Patent Security Agreement (Executed)#page6.tif

PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Patent Security Agreement") is made this 19th day of November, 2020, by and among the Grantors listed on the signature pages hereof (collectively, jointly and severally, "Grantors" and each individually "Grantor"), and **WELLS FARGO BANK, NATIONAL ASSOCIATION**, a national banking association ("Wells Fargo"), in its capacity as administrative agent for each member of the Lender Group and the Bank Product Providers (in such capacity, together with its successors and assigns in such capacity, "Agent").

W I T N E S S E T H:

WHEREAS, pursuant to that certain Credit Agreement dated as of November 19, 2020 (as amended, restated, supplemented, or otherwise modified from time to time, the "Credit Agreement") by and among **FTS INTERNATIONAL SERVICES, LLC**, a Texas limited liability company ("OpCo Borrower") and **FTS INTERNATIONAL, INC.** ("Parent Borrower," together with the OpCo Borrower and those additional entities that hereafter become parties to the Credit Agreement as Borrowers in accordance with the terms thereof, are referred to hereinafter each individually as a "Borrower", and individually and collectively, jointly and severally, as the "Borrowers"), the lenders party thereto as "Lenders" (such Lenders, together with their respective successors and assigns in such capacity, each, individually, a "Lender" and, collectively, the "Lenders"), Agent, the Lender Group has agreed to make certain financial accommodations available to Borrower from time to time pursuant to the terms and conditions thereof; and

WHEREAS, the members of the Lender Group and the Bank Product Providers are willing to make the financial accommodations to Borrowers as provided for in the Credit Agreement, the other Loan Documents, and the Bank Product Agreements, but only upon the condition, among others, that the Grantors shall have executed and delivered to Agent, for the benefit of the Lender Group and the Bank Product Providers, that certain Guaranty and Security Agreement, dated as of November 19, 2020 (including all annexes, exhibits or schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Guaranty and Security Agreement"); and

WHEREAS, pursuant to the Guaranty and Security Agreement, Grantors are required to execute and deliver to Agent, for the benefit of the Lender Group and the Bank Product Providers, this Patent Security Agreement.

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor hereby agrees as follows:

1. DEFINED TERMS. All initially capitalized terms used but not otherwise defined herein have the meanings given to them in the Guaranty and Security Agreement or, if not defined therein, in the Credit Agreement, and this Patent Security Agreement shall be subject to the rules of construction set forth in Section 1(b) of the Guaranty and Security Agreement, which rules of construction are incorporated herein by this reference, *mutatis mutandis*.

2. GRANT OF SECURITY INTEREST IN PATENT COLLATERAL. Each Grantor hereby unconditionally grants, assigns, and pledges to Agent, for the benefit each member of the Lender Group and each of the Bank Product Providers, to secure the Secured Obligations, a continuing security

interest (referred to in this Patent Security Agreement as the "Security Interest") in all of such Grantor's right, title and interest in and to the following, whether now owned or hereafter acquired or arising (collectively, the "Patent Collateral"):

(a) all of its Patents and Patent Intellectual Property Licenses to which it is a party including those referred to on Schedule I;

(b) all divisionals, continuations, continuations-in-part, reissues, reexaminations, or extensions of the foregoing; and

(c) all products and proceeds of the foregoing, including any claim by such Grantor against third parties for past, present or future infringement of any Patent or any Patent exclusively licensed under any Intellectual Property License, including the right to receive damages, or right to receive license fees, royalties, and other compensation under any Patent Intellectual Property License.

3. SECURITY FOR SECURED OBLIGATIONS. This Patent Security Agreement and the Security Interest created hereby secures the payment and performance of the Secured Obligations, whether now existing or arising hereafter. Without limiting the generality of the foregoing, this Patent Security Agreement secures the payment of all amounts which constitute part of the Secured Obligations and would be owed by Grantors, or any of them, to Agent, the other members of the Lender Group, the Bank Product Providers or any of them, whether or not they are unenforceable or not allowable due to the existence of an Insolvency Proceeding involving any Grantor.

4. SECURITY AGREEMENT. The Security Interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interests granted to Agent, for the benefit of the Lender Group and the Bank Product Providers, pursuant to the Guaranty and Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of Agent with respect to the Security Interest in the Patent Collateral made and granted hereby are more fully set forth in the Guaranty and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. To the extent there is any inconsistency between this Patent Security Agreement and the Guaranty and Security Agreement, the Guaranty and Security Agreement shall control.

5. AUTHORIZATION TO SUPPLEMENT. If any Grantor shall obtain rights to any new patent application or issued patent or become entitled to the benefit of any patent application or patent for any divisional, continuation, continuation-in-part, reissue, or reexamination of any existing patent or patent application, the provisions of this Patent Security Agreement shall automatically apply thereto. Grantors shall give prompt notice in writing to Agent with respect to any such new patent rights. Without limiting Grantors' obligations under this Section, Grantors hereby authorize Agent unilaterally to modify this Patent Security Agreement by amending Schedule I to include any such new patent rights of each Grantor. Notwithstanding the foregoing, no failure to so modify this Patent Security Agreement or amend Schedule I shall in any way affect, invalidate or detract from Agent's continuing security interest in all Collateral, whether or not listed on Schedule I.

6. COUNTERPARTS. This Patent Security Agreement is a Loan Document. This Patent Security Agreement may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, when taken together, shall constitute but one and the same Patent Security Agreement. Delivery of an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission shall be equally as effective as delivery of an original executed counterpart of this Patent Security Agreement. Any party delivering an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission also shall deliver an original executed counterpart

of this Patent Security Agreement but the failure to deliver an original executed counterpart shall not affect the validity, enforceability, and binding effect of this Patent Security Agreement.

7. CHOICE OF LAW AND VENUE, JURY TRIAL WAIVER, AND JUDICIAL REFERENCE PROVISION. THIS PATENT SECURITY AGREEMENT SHALL BE SUBJECT TO THE PROVISIONS REGARDING CHOICE OF LAW AND VENUE, JURY TRIAL WAIVER, AND JUDICIAL REFERENCE SET FORTH IN SECTION 25 OF THE GUARANTY AND SECURITY AGREEMENT, AND SUCH PROVISIONS ARE INCORPORATED HEREIN BY THIS REFERENCE, *MUTATIS MUTANDIS*.

8. RELEASE AND TERMINATION. Upon any termination or release of the Patent Collateral pursuant to Section 23 of the Guaranty and Security Agreement, the Agent shall, at the request and expense of the Grantor, promptly execute and deliver to such Grantor all UCC termination statements, releases of intellectual property filings, and similar documents and take such other actions as such Grantor may reasonably request in writing to evidence such termination or release of the Patent Collateral.

[signature page follows]

IN WITNESS WHEREOF, the parties hereto have caused this Patent Security Agreement to be executed and delivered as of the day and year first above written.

GRANTORS:

FTS INTERNATIONAL SERVICES, LLC

By: 
Name: Lance Turner
Title: Chief Financial Officer and Treasurer

AGENT:

ACCEPTED AND ACKNOWLEDGED BY:

**WELLS FARGO BANK, NATIONAL
ASSOCIATION**, a national banking association

By: _____
Name: Becky Rountree
Title: Vice President

[SIGNATURE PAGE TO PATENT SECURITY AGREEMENT]

**PATENT
REEL: 054425 FRAME: 0066**

IN WITNESS WHEREOF, the parties hereto have caused this Patent Security Agreement to be executed and delivered as of the day and year first above written.

GRANTORS:

FTS INTERNATIONAL SERVICES, LLC

By: _____
Name: _____
Title: _____

ACCEPTED AND ACKNOWLEDGED BY:

AGENT:

WELLS FARGO BANK, NATIONAL
ASSOCIATION, a national banking association

By: Becky J. Rountree
Name: Becky Rountree
Its: Vice President

Becky
Rountree

Digitally signed by
Becky Rountree
Date: 2020.11.18
21:01:18 -06'00'

[SIGNATURE PAGE TO PATENT SECURITY AGREEMENT]

SCHEDULE I
to
PATENT SECURITY AGREEMENT

Patents

PATENT	PATENT NUMBER	ISSUE DATE	OWNER INFORMATION
Composition for denaturing and breaking down friction-reducing polymer and for destroying other gas and oil well contaminants	7897063	3/1/11	FTS International Services, LLC *missing assignment from one inventor (Stephen C. Perry)
Suction manifold mounting for a fluid end for a high-pressure pump	8105055	1/31/12	FTS International Services, LLC
Easily replaceable valve assembly for a high pressure pump	8550102	10/8/13	FTS International Services, LLC

Patent Licenses

[Schedule I to Patent Security Agreement]