

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM329835

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
INGRAIN, INC.		12/22/2014	CORPORATION: DELAWARE
RECEIVING PARTY DATA			
Name:	COMERICA BANK		
Street Address:	39200 Six Mile Road		
Internal Address:	National Documentation Services, Mail Code 7578		
City:	LIVONIA		
State/Country:	MICHIGAN		
Postal Code:	48152		
Entity Type:	a Texas banking association: TEXAS		
PROPERTY NUMBERS Total: 7			
Property Type	Number	Word Mark	
Registration Number:	4456495	SHALEPAY	
Registration Number:	4255152	PLUGHD	
Registration Number:	4347462	RECONHD	
Registration Number:	3867157	COREHD	
Registration Number:	3705217	VROCK	
Registration Number:	3475942	INGRAIN	
Registration Number:	3475941	ROCK PROPERTIES IN REAL TIME	
CORRESPONDENCE DATA			
Fax Number:	7349302494		
<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:	734-930-0121		
Email:	asujek@bodmanlaw.com		
Correspondent Name:	Angela Alvarez Sujek - Bodman PLC		
Address Line 1:	201 South Division, Suite 400		
Address Line 4:	Ann Arbor, MICHIGAN 48104		
NAME OF SUBMITTER:	Angela Alvarez Sujek		
SIGNATURE:	/Angela Alvarez Sujek/		

OP \$190.00 4456495

DATE SIGNED:	01/23/2015
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Total Attachments: 9

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of December 22, 2014 by and between COMERICA BANK ("Bank") and INGRAIN, INC., a Delaware corporation ("Grantor").

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the "Loans") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor dated of even date herewith (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"). Capitalized terms used herein are used as defined in the Loan Agreement.

B. Bank is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks and Patents to secure the obligations of Grantor under the Loan Agreement.

C. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement and all other agreements now existing or hereafter arising between Grantor and Bank, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Loan Agreement and under any other agreement now existing or hereafter arising between Bank and Grantor, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property Collateral (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C 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.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights in connection to which Grantor has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

Detroit_4381031_2

TRADEMARK
REEL: 005445 FRAME: 0859

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

Address of Grantor:

Ingrain, Inc.
3733 Westheimer Rd.
Second Floor
Houston, TX 77027

Address of Bank:

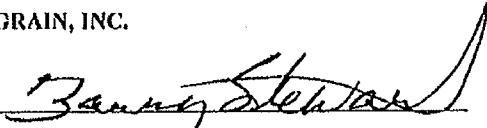
Comerica Bank
National Documentation Services
39200 Six Mile Rd.
Mail Code 7578
Livonia, MI 48152

GRANTOR:

INGRAIN, INC.

By:

Title:


CFO

BANK:

COMERICA BANK

By: _____

Title: _____

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GRANTOR:

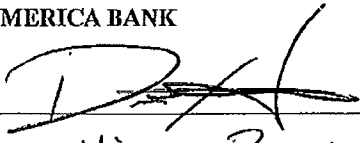
INGRAIN, INC.

By: _____

Title: _____

BANK:

COMERICA BANK

By:  _____

Title: Vice President

EXHIBIT A

Copyrights

None.

EXHIBIT B

Patents

Title	App. No.	Filing Date	Reg. No.	Date Granted
Method for estimating effective atomic number and bulk density of rock samples using dual energy x-ray computed tomographic imaging	13/527660	6/20/12	8,855,264	10/7/14
Method for evaluating shaped charge perforation test cores using computer tomographic images thereof	12/838746	7/19/10	8,590,382	11/26/13
Method for obtaining consistent and integrated physical properties of porous media	12/790066	5/28/10	8,583,410	11/12/13
Method for estimating material properties of porous media using computer tomographic images thereof	12/124261	5/21/08	8,331,626	12/11/12
Method for determining in-situ relationships between physical properties of a porous medium from a sample thereof	12/276431	11/24/08	8,170,799	5/1/12
Method for determining rock physics relationships using computer tomographic images thereof	12/276430	11/24/08	8,155,377	4/10/12

Title	App. No.	Filing Date	Reg. No.	Date Granted
Method for determining elastic-wave attenuation of rock formations using computer tomographic images thereof	12/276952	11/24/08	8,085,974	12/27/11
Method for determining permeability of rock formation using computer tomographic images thereof	12/325151	11/29/08	8,081,802	12/20/11
Method for determining properties of fractured rock formations using computer tomographic images thereof	12/276432	11/24/08	8,081,796	12/20/11
Process and system for preparation of x-ray scannable sample-embedded sliver for characterization of rock and other samples	14/061772	10/24/13	n/a	n/a
Computed tomography (CT) systems and methods analyzing rock property changes resulting from a treatment	14/038376	9/26/13	n/a	n/a
Digital rock analysis systems and methods that reliably predict a porosity-permeability trend	13/972772	8/21/13	n/a	n/a
Digital rock analysis systems and methods that estimate a maturity level	13/663654	10/30/12	n/a	n/a
Method for improving the accuracy of rock property values derived from digital images	13/962041	8/8/13	n/a	n/a

Title	App. No.	Filing Date	Reg. No.	Date Granted
Digital rock analysis systems and methods with reliable multiphase permeability determination	13/549354	7/13/12	n/a	n/a
Method for evaluating relative permeability for fractional multi-phase, multi-component fluid flow through porous media	13/548339	7/13/12	n/a	n/a
Digital rock analysis systems and methods with multiphase flow REV determination	13/524758	6/15/12	n/a	n/a
Method and system for estimating rock properties from rock samples using digital rock physics imaging	13/895454	5/16/13	n/a	n/a
Efficient method for selecting representative elementary volume in digital representations of porous media	13/546053	7/11/12	n/a	n/a
Method and system for estimating properties of porous media such as fine pore or tight rocks	13/850543	3/26/13	n/a	n/a
Method of determining reservoir properties and quality with multiple energy x-ray imaging	13/738106	1/10/13	n/a	n/a
Dual image method and system for generating a multi-dimensional image of a sample	13/649409	10/11/12	n/a	n/a

Title	App. No.	Filing Date	Reg. No.	Date Granted
Characterization of subterranean formation properties derived from quantitative x-ray CT scans of drill cuttings	13/617184	9/14/12	n/a	n/a
Method for simulating fractional multi-phase/multi-component flow through porous media	13/539543	7/2/12	n/a	n/a
Method and system for multi-energy computer tomographic cuttings analysis	13/890367	5/9/13	n/a	n/a

EXHIBIT C

Trademarks

Mark	App. No.	Filing Date	Reg. No.	Reg. Date
SHALEPAY	85/814131	1/2/13	4,456,495	12/24/13
PLUGHD	85/474378	11/16/11	4,255,152	12/4/12
RECONHD	85/445165	10/12/11	4,347,462	6/4/13
COREHD	77/962996	3/19/10	3,867,157	10/26/10
VROCK	77/715588	4/16/09	3,705,217	11/3/09
INGRAIN	77/353456	12/17/07	3,475,942	7/29/08
ROCK PROPERTIES IN REAL TIME	77/353448	12/17/07	3,475,941	7/29/08