

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4490127

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST	
CONVEYING PARTY DATA		
	Name	Execution Date
	GEMCAP LENDING I, LLC	07/05/2017
RECEIVING PARTY DATA		
Name:	INGRAIN, INC.	
Street Address:	3733 WESTHEIMER ROAD	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77027	
PROPERTY NUMBERS Total: 97		
Property Type	Number	
Patent Number:	8331626	
Patent Number:	8155377	
Patent Number:	8170799	
Patent Number:	8081796	
Patent Number:	8085974	
Patent Number:	8081802	
Patent Number:	8590382	
Patent Number:	8583410	
Application Number:	13465105	
Patent Number:	9183326	
Patent Number:	9142045	
Application Number:	61618265	
PCT Number:	US2013024593	
Patent Number:	9064328	
Patent Number:	8855264	
Patent Number:	9201026	
Patent Number:	9372162	
Patent Number:	9080946	
Patent Number:	9047513	
Patent Number:	9396547	

PATENT

Property Type	Number
Patent Number:	9046509
Patent Number:	8938045
Application Number:	13549354
PCT Number:	US2013049113
Application Number:	61692541
Patent Number:	9140117
Application Number:	13890367
Application Number:	14038376
Patent Number:	9127529
Application Number:	61684978
Application Number:	13663654
PCT Number:	US2013057899
Application Number:	61845272
PCT Number:	US2014046311
Application Number:	14335817
Application Number:	61856521
Application Number:	14909957
Application Number:	61972990
PCT Number:	US2015023419
Application Number:	61972983
PCT Number:	US2015023420
Application Number:	61989618
Application Number:	14704996
PCT Number:	US2015029331
Application Number:	61989621
Application Number:	14704997
PCT Number:	US2015029332
Application Number:	62055242
Application Number:	14863171
PCT Number:	US2015051749
Application Number:	62038950
Application Number:	14827358
PCT Number:	US2015045451
Application Number:	62083940
PCT Number:	US2015062069
Application Number:	62104099
PCT Number:	US2016013619
Application Number:	62106712

Property Type	Number
Application Number:	62147977
Application Number:	62169171
Application Number:	62222246
Application Number:	62219363
Application Number:	13972772
Application Number:	61227651
Application Number:	61506680
Application Number:	61511600
Application Number:	61535601
Application Number:	61547090
Application Number:	61547095
Application Number:	61586153
Application Number:	61617099
Application Number:	61646045
Application Number:	61649099
Application Number:	61681700
Application Number:	61706505
Application Number:	61721161
PCT Number:	US2009065246
PCT Number:	US2009065429
PCT Number:	US2009065430
PCT Number:	US2009065431
PCT Number:	US2010042803
PCT Number:	US2011037500
PCT Number:	US2012045220
PCT Number:	US2012059689
PCT Number:	US2012043213
PCT Number:	US2013033810
PCT Number:	US2012055405
PCT Number:	US2013044773
PCT Number:	US2013054083
PCT Number:	US2013041276
PCT Number:	US2013020936
PCT Number:	US2013056244
PCT Number:	US2013045531
PCT Number:	US2013040259
PCT Number:	US2013062034
PCT Number:	US2013066476

Property Type	Number
PCT Number:	US2009065401

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	DANIEL J. FRIEDMAN
SIGNATURE:	/Daniel J. Friedman/
DATE SIGNED:	07/05/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 13
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RELEASE OF SECURITY INTERESTS

WHEREAS, pursuant to the Patent and Trademark Security Agreement (“**Security Agreement**”) entered into on August 31, 2016 made by INGRAIN, INC., a Delaware corporation (“**Ingrain**”), and GEMCAP LENDING I, LLC, a Delaware limited liability company, (“**GemCap**”), Ingrain granted a security interest to GemCap in certain Patents and Trademarks (as defined in the Security Agreement), in the goodwill of Ingrain’s business connected with and symbolized thereby, and in all proceeds, indemnities, warranties and guaranties, including all other forms of collateral identified in the Security Agreement (collectively the “**Secured Property**”);

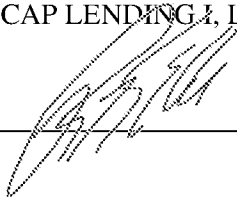
WHEREAS, such Security Agreement was recorded within the records of the United States Patent and Trademark Office in the Trademark Section on September 1, 2016, at reel 5869, frame 0001; and in the Patent Section on September 1, 2016, at reel 039973, frame 0886; and

WHEREAS, all of the obligations arising in connection with the grant of the security interest have now been satisfied and GemCap desires to formally release its security interest and all right, title and interest of GemCap in and to the Secured Property;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, GemCap does hereby release and forever discharge and reconvey to Ingrain all of GemCap’s security interest and GemCap’s right, title, and interest in, to and under the Secured Property, including GemCap’s security interest in the trademark registrations identified on Exhibit A, and the patents and applications identified on Exhibit B, attached hereto; and GemCap does further acknowledge and affirm that all of the rights and remedies of GemCap with respect to the security interest concerning the Secured Property have been and are hereby extinguished; and GemCap further agrees to perform all additional acts necessary (including executing additional documents) to confirm that GemCap has no interests of any type in, to, or under the Security Property. This Release of Security Interests may be filed with the United States Patent & Trademark Office.

IN WITNESS WHEREOF, GemCap has caused this RELEASE OF SECURITY INTERESTS to be executed and delivered as of the 5th day of June, 2017.

GEMCAP LENDING I, LLC

By: _____

Print Name: Richard Ellis

Title: Co-President

Exhibit A

Trademark Registrations

Trademark	Description	Attorney	Examiner	Granting Institution	Publication/Serial #	Registration Date
CoreHD	Scientific imaging services in the nature of computed tomography images of subsurface geologic formation core samples	K&B	No	US	3867157	10/26/2010
Ingrain	Technical consultation, analysis, and measurements of geophysical properties of rocks, minerals, sands, soils and subsols for the energy, petroleum, oil and gas industries	-	No	US	3475942	7/29/2008
PlugHD	Scientific imaging services in the nature of computed tomography images of plugs from geologic formations	K&B	No	US	4255152	12/4/2012
ReconHD	Scientific imaging services in the nature of computed tomography images or scanning electron microscope images of subsurface drill cuttings from geologic formations	K&B	No	US	4347462	6/4/2013
ShaleRay	Scientific imaging and analysis services in the nature of computed tomography images or scanning electron microscope images of rocks from geologic shale formations	K&B	No	US	4456495	12/24/2013
vRock	Petrographic analysis services, specifically, determining fluid transport properties of rock formations from computer tomographic images of rock formation samples. For use in connection with Petrographic analysis services, specifically, determining fluid transport properties of rock formations from computer tomographic images of rock formation samples	K&B	No	US	3705217	11/3/2009
Lithovision	User friendly way for displaying together log curves and core scans (3D CT images) making easy to visually investigate geologic features (burrows, stratification, fractures, etc.) in relation to petrophysical properties derived from core and all wireline logs	K&B	No	US	86826377	11/19/2015

Exhibit B:

Patents

Patent Application							
Patent #	Title	Country	Serial #	Filing Date	Status	Issue Date	Grant #
1	Method For Estimating Material Properties Of Porous Media Using Computer Tomographic Images Thereof	US	12/124,261	5/21/2008	Issued	12/11/2012	US 8,331,826 B2
		EP	8165924.5	10/6/2008	Published	11/25/2009	EP 2 124 042 A1
		GCC	2008/11831	10/11/2009	Allowed	6/11/2015	GCC003625
		Algeria	080691	12/1/2008	Issued	1/23/2011	6193
		Brazil	PI0900963.9	3/31/2009	Pending		
		Canada	2,646,857	12/16/2008	Issued	8/4/2015	2,646,857
2	Method For Determining Rock Physics Relationships Using Computer Tomographic Images Thereof	Libya	3776/2009	4/5/2009	Pending		
		Mexico	MX/a/2009/005435	5/21/2009	Issued	2/7/2012	299952
		US	8155317	11/24/2008	Issued	4/10/2012	US 8,155,317 B2
		United Arab Emirates	525/2011	5/24/2011	Abandoned	5/9/2016	
		Australia	2008316427	5/27/2011	Issued	6/3/2015	2008316427
		EP	9764136.8	6/20/2011	Published		235934
3	Method For Determining In-Situ Relationships Between Physical Properties Of A Porous Medium From A Sample Thereof	PCT	PCT/US2009/065401	11/20/2009	Published	5/27/2010	WO 2010/059987
		Saudi Arabia	109300705	11/18/2009	Issued	10/6/2013	3188
		US	8170739	11/24/2008	Issued	5/1/2012	US 8,170,739 B2
		PCT	PCT/US2009/065246	11/20/2009	Abandoned		WO 2010/059990
		Saudi Arabia	109300703	11/18/2009	Abandoned	5/20/2011	
		US	8081786	11/24/2008	Issued	12/20/2011	US 8,081,786 B2
4	Method For Determining Properties Of Fractured Rock Formations Using Computer Tomographic Images Thereof	PCT	PCT/US2009/065429	11/22/2009	Abandoned		WO 2010/060001
		Saudi Arabia	109300707	11/18/2009	Abandoned	5/20/2011	
		US	12/276,952	11/24/2008	Issued	12/27/2013	US 8,085,974 B2
		United Arab Emirates	526/2011	5/24/2011	Abandoned	5/4/2016	
		Australia	2009316347	5/27/2011	Issued	8/4/2014	2009316347
		EP	09828329.4	6/14/2011	Issued	4/27/2013	EP 2 359 311 B1
5	Method For Determining Elastic-Wave Attenuation Of Rock Formations Using Computer Tomographic Images Thereof	Germany	60 2009 014 557.6	6/14/2011	Issued	3/27/2013	EP 2 359 311 B1
		France	2359311	6/14/2011	Issued	3/27/2013	EP 2 359 311 B1
		Great Britain	2359311	6/14/2011	Issued	3/27/2013	?
		Norway	2359311	6/14/2011	Issued	4/27/2013	EP 2 359 311 B1
		PCT	PCT/US2009/065430	11/22/2009	Published	5/27/2010	WO 2010/060002
		Saudi Arabia	109 30 0706	11/18/2009	Issued	9/30/2013	3173
6		US	12/325,151	11/29/2008	Issued	12/20/2011	US 8,081,802 B2
		United Arab Emirates	534/2011	5/28/2011	Abandoned	5/9/2016	

IGR0806	Method For Determining Permeability Of Rock Formation Using Computer Tomographic Images Thereof	Australia	2008319885	5/27/2011	Issued	5/7/2015	AU 2008319885 B2
		EP	9799447.9	6/20/2011	Published	9/28/2011	2368106
		PCT	PCT/US2009/065431	11/22/2009	Published	6/3/2010	WO 2010/062839 A1
		Saudi Arabia	109300700	11/18/2009	Issued	10/1/2013	3179
		US-Provisional	61/227651	7/22/2009	Converted	7/19/2010	
IGR0902	Method For Evaluating Shaped Charge Perforation Test Cores Using Computer Tomographic Images Thereof	US	8590382	7/19/2010	Issued	11/26/2013	US 8,590,382 B2
		PCT	PCT/US2010/042803	7/21/2010	Published	1/27/2011	WO 2011/022551 A1
		Australia	2010276161	1/19/2012	Issued	5/15/2014	2010276161 B
		Brazil	1120120014226	1/20/2012	Pending		
		EP	10765702.5	1/11/2012	Issued	6/3/2015	2457082
IGR1001	Method for Obtaining Consistent and Integrated Physical Properties of Porous Media	Germany	2457082	6/25/2015	Pending		
		France	2457082	6/25/2015	Pending		
		US	127980266	5/28/2015	Issued	11/12/2013	US 8,583,418 B2
		United Arab Emirates	1229/2012	11/27/2012	Abandoned	1/29/2015	
		Australia	2011258584	11/20/2012	Abandoned	2/12/2014	
IGR2010BU	Method And System For Integrating Logging Tool Data And Digital Rock Physics To Estimate Rock Formation Properties	China	201180036781.4	1/29/2013	Abandoned	7/10/2014	
		Norway	20121394	11/22/2012	Abandoned	4/15/2015	
		PCT	PCT/US2011/037500	5/23/2011	Published	12/1/2011	WO 2011/149808 A2
		US-Provisional	61/484254	5/10/2011	Converted	5/7/2012	
		US	13465105	5/7/2012	Amended		
IGR2011AB	Method For Simulating Fractional Multi-Phase/Multi-Component Flow Through Porous Media	US-Provisional	61/506380	7/12/2011	Converted	7/2/2012	
		US	13639543	7/2/2012	Issued	11/10/2015	US 8,843,926 B2
		PCT	PCT/US2012/045220	7/2/2012	Published	1/17/2013	WO 2013/009512
		GCC	201221712	7/8/2012	Pending		
		EP	12741382.7	12/27/2013	Published	5/21/2014	2732135
		Iraq	14872012	7/11/2012	Abandoned	9/12/2012	
		Australia	2012283030	12/23/2013	Accepted		
		Brazil	1120140075566	1/3/2014	Pending		
		Canada	2840942	12/31/2013	Pending		
		China	20128004434.0	3/12/2014	Published	7/2/2014	CN103906893A
		Colombia	14-005-025	1/13/2014	Issued	12/15/2015	14-005-025 AB
		Mexico	MX/a/2014/000429	1/10/2014	Published	11/4/2014	5562503
		Russia	2014104786	2/11/2014	Published	8/20/2015	23

11	IGR2011AK	Method For Displaying Two-Dimensional Geological Image Data In Log Format And Displayed Product	US-Provisional	6/15/47,095	10/14/2011	Converted	10/11/2012	
			US	13/649,198	10/11/2012	Pending		
12	IGR2011AL	An Efficient Method For Selecting Representative Elementary Volume In Digital Representations Of Porous Media	US-Amended	13/649,198	2/6/2015	Issued	8/22/2015	US 8,142,045
			US-Provisional	6/1618,285	3/30/2012	Converted	7/11/2012	
			US	13/648,053	7/11/2012	Abandoned	6/8/2016	US 2013/0262028 A1
			GCC	201323549	2/13/2013	Pending		
			PCT/US2013/024583	PCT/US2013/024583	2/4/2013	Published	10/3/2013	WO 2013/147995
			EP	13706333.5	2/4/2013	Published	2/4/2015	2831578
			Australia	2013240570	3/30/2012	Issued	8/27/2015	2013240570
			Brazil	1120140243573	9/30/2013	Pending		
			Canada	2868672	2/4/2013	Pending		
			China	201380029060.X	12/1/2014	Published	2/4/2015	CN 104335042 A
			Colombia	14218438	10/28/2014	Pending		
			Mexico	MX/a/2014/011709	9/28/2014	Amended	11/20/2015	
			Russia	2014143802	10/26/2014	Issued	6/10/2016	2588597
			US-Provisional	6/1547,090	10/14/2011	Converted	10/11/2012	
			US	13/649,409	10/11/2012	Issued	8/23/2015	US 9,084,328 B2
			GCC	2012-22516	11/13/2012	Pending		
13	IGR2011AN	Dual Image Method And System For Generating A Multi-Dimensional Image Of A Sample	PCT	PCT/US2012/056689	10/11/2012	Published	4/18/2013	WO 2013/0055876
			Australia	2012322799	4/1/2014	Issued	11/30/2015	AU 2012322799
			Brazil	112014000939	4/14/2014	Pending		
			Canada	2,850,799	4/1/2014	Pending		
			China	201280052321.5	4/24/2014	Abandoned	5/4/2016	
			Colombia	14/080,252	4/14/2014	Published	7/10/2014	699
			EP	12783745.8	3/28/2014	Pending		
			Mexico	MX/a/2014/003968	4/1/2014	Issued	12/21/2015	MX 338923
			Russia	2014119260	5/13/2014	Published	11/20/2015	RU2014119260A
			US-Provisional	6/1611,800	7/26/2011	Converted	6/20/2012	
			US	8855294	6/20/2012	Issued	10/7/2014	US 8,855,294 B2
			GCC	2012217196	7/21/2012	Pending		
			PCT	PCT/US2012/043213	6/20/2012	Published	1/31/2013	WO 2013/015914
			EP	12733295.5	1/10/2014	Published	6/4/2014	2737297
			Australia	2012267447	12/31/2013	Issued	10/30/2014	2012267447
			Brazil	1120140015538	1/23/2014	Pending		
14	IGR2011AO	Method For Estimating Effective Atomic Number And Bulk Density Of Rock Samples Using Dual Energy X-Ray Computed Tomographic Imaging	Canada	2480931	6/20/2012	Pending		
			China	201280037280.2	1/28/2014	Published	4/9/2014	CN103718016A

Issue by 2/17/

rejected claim

24	IGR2012AH+AI	A Method and System For Multi-Energy Computer Tomographic Cuttings Analysis	GCC	201324928	7/11/2013	Pending		
			Russia	2015104798	2/12/2015	Pending		
			US-Provisional	511546345	5/11/2012	Converted	5/9/2013	
			US	13690367	5/9/2013	Published	11/14/2013	US 2013/0301794 A1
			GCC	2013-24359	5/11/2013	Pending		
			PCT	PCT/US2013/0040259	5/9/2013	Published	11/14/2013	WO 2013/169973
			Australia	2013256470	5/9/2013	Abandoned	5/17/2015	
			Brazil	112014029638	1/20/2015	Pending		
			Canada	218721067	5/9/2013	Pending		
			China	201380038952.8	1/20/2015	Published	3/18/2015	CN 104428661 A
25	IGR2012AU	Computed Tomography (CT) Systems and Methods Analyzing Rock Property Changes Resulting from a Treatment	Colombia	14248174	11/10/2014	Abandoned	5/7/2015	
			EP	13728177.5	10/30/2014	Published	3/18/2015	2847580
			US-Provisional	617706.505	9/27/2012	Converted	9/26/2013	
			US	14038.376	9/26/2013	Published	3/27/2014	US 2014/0086381 A1
			GCC	25457	9/29/2013	Pending		
			EP	13840470.2	9/26/2013	Published	5/8/2015	2901367
			PCT	PCT/US2013/062034	9/26/2013	Published	4/3/2014	WO 2014/052865
			Australia	2013323422	9/26/2013	Pending		
			Brazil	BR 11 2015 006701 8	3/25/2015	Pending		
			China	201380055975.8	9/26/2013	Published	8/5/2015	
26	IGR2012AK	Process and System For Preparation of X-Ray Scannable Sample Embedded Silver For Characterization Of Rock And Other Samples	Colombia	15-87925	9/26/2013	Pending		
			US-Provisional	511721.161	11/1/2012	Converted	10/24/2013	
			US	14061772	10/24/2013	Issued	8/8/2015	US 8,142,528
			GCC	2013-25884	10/30/2013	Pending		
			PCT	PCT/US2013/065476	10/24/2013	Published	5/8/2014	WO 2014/070564 A1
			Australia	2013336264	10/24/2013	Pending		
			Brazil	1120150097707	4/29/2015	Pending		
			Canada	218891823	10/24/2013	Amended		
			China	201380059038.8	6/30/2015	Published	9/16/2015	CN 104903711 A
			Colombia	15089223	4/30/2015	Published	6/31/2015	574
27	IGR2012AL	Digital Rock Analysis Systems and Methods That Estimate a Maturity Level	EP	13786125.8	4/27/2015	Amended		
			US-Provisional	611684.978	8/20/2012	Converted	10/30/2012	
IGR2012AP		Method And System For Combining Tomographic Imaging And Well Data To Obtain High-Resolution Rock, Mechanical, and Elastic	US	13663.654	10/30/2012	Published	2/20/2014	US 2014/0052420 A1
			PCT	PCT/US2013/057886	9/4/2013	Published	3/12/2015	WO 2015/034472

national stage

28		Property Profiles	Mexico	3091-037-01 MX	2/8/2016	National Phase			
0	IGR2012AQ	Method for estimating physical properties of objects from X-Ray attenuation measurements at multiple energy levels	US-Provisional	61/759,069	1/31/2013	Abandoned			
29	IGR2013E	Method for Characterizing a Wellbore Depth Interval from Rock Fragments	US-Provisional	61/845,272	7/11/2013	Converted			
			PCT	PCT/US2014/046311	7/11/2014	Published			
			Russia	P17032846RU	2/2/2016	National Phase			
			Saudi Arabia	516370377	2/2/2016	National Phase			
			Australia	2014287028	7/11/2014	National Phase			
30	IGR2013F	Cuttings-Based Well Logging Methods	US-Provisional	61/856,521	7/19/2013	Converted			
31	IGR2013G	Conditioning Of Expanded Poreless	US	14/35,817	7/18/2014	Published			
			US-Provisional	61/863,508	8/8/2013	Published			
			PCT	PCT/US2014/050412	8/8/2014	Published			
			Australia	2014-306263	8/8/2014	Pending			
32	IGR2014B	Representative Elementary Volume Determination Via Clustering-Based Statistics	US-Provisional	61/972,990	3/31/2014	Converted			
			PCT	PCT/US2015/023419	3/30/2015	Published			
			US-Provisional	61/872,983	3/31/2014	Converted			
33	IGR2014C	Digital Rock Physics-Based Trend Determination and Usage for Upscaling	PCT	PCT/US2015/023420	3/30/2015	Published			
34	IGR2014G	Method And System For Spatially Resolved Wettability Determination	US-Provisional	61/989,618	5/7/2014	Converted			
			US	14/704,996	5/6/2015	published			
			PCT	PCT/US2015/029331	5/6/2015	Pending			
35	IGR2014H	Method And System For Spatially Resolved Geochemical Characterisation	US-Provisional	61/989,621	5/7/2014	Converted			
			US	14704597	5/6/2015	published			
			PCT	PCT/US2015/029332	5/6/2015	Pending			
36	IGR2014L	Improved Digital Pore Alteration Methods and Systems	US-Provisional	62/055,242	9/25/2014	Converted			
			US	14/863,171	9/23/2015	published			
			PCT	PCT/US2015/051749	9/23/2015	Pending			

Dom response

Dom response

2/4/2016

37	IGR2014W	Geochemistry information from Pyrolysis induced by Laser Induced Breakdown Spectroscopy	US-Provisional	62/038,950	8/19/2014	Converted	8/17/2015	
			US	14,827,358	8/17/2015	Pending		
			PCT	PCT/US2015/040451	8/17/2015	Pending		
38	IGR2014O	Fluid Characterization of Porous Materials LIBS	US-Provisional	62/083,940	11/25/2014	Filed		
			PCT	PCT/US2015/062059	11/23/2015	Filed		
39	IGR2014Q	Cuttings Analysis for Improved Downhole NMR Characterisation	US-Provisional	62/104,099	1/16/2015	Filed		
			PCT	PCT/US2016/013619	1/15/2016	Filed		
40	IGR2014R	Methods and Systems of Testing Formation Samples Using a Rock Chamber	US-Provisional	62/106,712	1/22/2015	Filed		
41	IGR2015E	Method for Determining Fabric and Upscaled Properties of Geological Sample	US-Provisional	62/147,977	4/19/2015	Filed		
42	IGR2015F	Combined Vibrational Spectroscopy and Laser Induced Breakdown Spectroscopy for Improved Mineralogical and Geochemical Characterization of Petroleum Source or Reservoir Rocks	US-Provisional	62/169,171	6/1/2015	Filed		
43	IGR2015H	Measurement of Noble Gas Adsorption via Laser-Induced Breakdown Spectroscopy for Wettability Determination	US-Provisional	62/222,246	9/23/2015	Filed		
44	IGR2015I	Method for Determining Porosity Associated with Organic Matter in a Well or Formation	US-Provisional	62/219,363	9/16/2015	Filed		

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