

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM397195

|   |   |                       |                       |
|---|---|-----------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                          |                       |                       |
| <b>NATURE OF CONVEYANCE:</b>  | SECURITY INTEREST                       |                       |                       |
| <b>CONVEYING PARTY DATA</b>   |   |                       |                       |
| <b>Name</b>   | <b>Formerly</b>                         | <b>Execution Date</b> | <b>Entity Type</b>    |
| Ingrain, Inc.   |   | 08/31/2016            | Corporation: DELAWARE |
| <b>RECEIVING PARTY DATA</b>   |   |                       |                       |
| <b>Name:</b>  | Gemcap Lending I, LLC                   |                       |                       |
| <b>Street Address:</b>  | 24955 Pacific Coast Highway, Suite A202 |                       |                       |
| <b>City:</b>  | Malibu                                  |                       |                       |
| <b>State/Country:</b>   | CALIFORNIA                              |                       |                       |
| <b>Postal Code:</b>   | 90265                                   |                       |                       |
| <b>Entity Type:</b>   | Limited Liability Company: DELAWARE     |                       |                       |
| <b>PROPERTY NUMBERS Total: 7</b>  |   |                       |                       |
| <b>Property Type</b>  | <b>Number</b>                           | <b>Word Mark</b>      |                       |
| <b>Registration Number:</b>   | 3867157                                 | COREHD                |                       |
| <b>Registration Number:</b>   | 3475942                                 | INGRAIN               |                       |
| <b>Registration Number:</b>   | 4255152                                 | PLUGHD                |                       |
| <b>Registration Number:</b>   | 4347462                                 | RECONHD               |                       |
| <b>Registration Number:</b>   | 4456495                                 | SHALEPAY              |                       |
| <b>Registration Number:</b>   | 3705217                                 | VROCK                 |                       |
| <b>Serial Number:</b>   | 86826377                                | LITHOVISION           |                       |
| <b>CORRESPONDENCE DATA</b>  |   |                       |                       |
| <b>Fax Number:</b>  | 2125865095                              |                       |                       |
| <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> |   |                       |                       |
| <b>Phone:</b>   | 212-586-5800                            |                       |                       |
| <b>Email:</b>   | rboghosian@ctswlaw.com                  |                       |                       |
| <b>Correspondent Name:</b>  | Robert A. Boghosian                     |                       |                       |
| <b>Address Line 1:</b>  | 420 Lexington Ave, Suite #2400          |                       |                       |
| <b>Address Line 4:</b>  | New York, NEW YORK 10170                |                       |                       |
| <b>NAME OF SUBMITTER:</b>   | Mai-Khoi Nguyen-Thanh                   |                       |                       |
| <b>SIGNATURE:</b>   | /Mai-Khoi Nguyen-Thanh/                 |                       |                       |
| <b>DATE SIGNED:</b>   | 09/01/2016                              |                       |                       |

OP \$190.00 3867157

**Total Attachments: 19**

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## PATENT AND TRADEMARK SECURITY AGREEMENT

This Patent Trademark Security Agreement, dated as of August 31, 2016 (this "Agreement"), made by INGRAIN, INC., a Delaware corporation with a principal place of business located at 3733 Westheimer Road, Houston, TX (the "Grantor"), in favor of GEMCAP LENDING I, LLC, a Delaware limited liability company with offices at 24955 Pacific Coast Highway, Suite A202, Malibu, CA 90265 (together with its successors and assigns, "Lender").

### RECITALS

**WHEREAS**, the Grantor has an ownership interest in the patents identified on **Exhibit 1** hereto (collectively, the "Patents"); and

**WHEREAS**, the Grantor has an ownership interest in the trademarks identified on **Exhibit 2** hereto (collectively, the "Trademarks"); and

**WHEREAS**, the Grantor and the Lender are parties to that certain Loan and Security Agreement, of even date herewith (as from time to time amended or supplemented, the "Loan Agreement"); and

**WHEREAS**, the Grantor has granted to Lender a security interest in all of its property and assets, including, without limitation, the Patents and Trademarks, to secure the performance of Grantor's obligations under the Loan Agreement and the other Loan Documents; and

**WHEREAS**, it is a condition precedent to the Lender's entry into the Loan Agreement and the other Loan Documents that the Grantor execute and deliver this Agreement to the Lender; and

**WHEREAS**, the Grantor and the Lender by this instrument seek to confirm and make a record of the grant of the security interest in the Patents and Trademarks and the assignment of the Patents and Trademarks upon the occurrence of an Event of Default in accordance with the terms of this Agreement; and

**WHEREAS**, capitalized terms used and not defined herein have the meanings given to them in the Loan Agreement.

**NOW, THEREFORE**, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Grantor hereby agrees, confirms and acknowledges as follows:

1. The Grantor does hereby acknowledge and confirm that the Patents and Trademarks and the goodwill associated therewith constitute Intellectual Property included in the Collateral pledged by Grantor to Lender pursuant to the Loan Agreement.

2. The Grantor further acknowledges and confirms that the rights and remedies of Lender with respect to the Patents and Trademark are more fully set forth in the Loan Agreement and the other Loan Documents, the terms and provisions of which are incorporated herein by reference.
3. The Grantor hereby irrevocably constitutes and appoints Lender, with full power of substitution, as its true and lawful attorney-in-fact, with full irrevocable power and authority in its place and stead and in its name or otherwise, from time to time in Lender's sole discretion, at such Grantor's sole cost and expense, to take any and all action and to execute and deliver any and all documents and instruments which Lender may deem reasonably necessary or advisable to (a) accomplish the purposes of perfecting, continuing and preserving, a continuing first priority security interest in the Patents and Trademarks and the goodwill associated therewith in favor of Lender, and (b) effect a transfer of the Patents and Trademarks and the goodwill associated therewith to Lender or to Lender's designees without further consent or authorization of the Grantor upon the occurrence of an Event of Default. In furtherance and not in limitation of the foregoing, if an Event of Default has occurred and is continuing, the Lender is hereby authorized file with the United States Patent and Trademark Office or with such other governmental authorities, the assignment in the form substantially similar to that of **Exhibits A-1 and A-2** attached to this Agreement, together with such other instruments and documents as the Lender may deem necessary or appropriate to effectuate the foregoing.

**[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK AND SIGNATURE ON NEXT PAGE]**

IN WITNESS WHEREOF, this Patent and Trademark Security Agreement as of the day and year first above written.

INGRAIN, INC.

By: Tracy Stewart

Name: Tracy Stewart

Title: CFO

ACCEPTED AND AGREED:

LENDER:

GEMCAP LENDING I, LLC

By: \_\_\_\_\_  
Richard Ellis, Co-President

[SIGNATURE PAGE -- PATENT AND TRADEMARK SECURITY AGREEMENT]

**IN WITNESS WHEREOF**, this Patent and Trademark Security Agreement as of the day and year first above written.

**INGRAIN, INC.**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**ACCEPTED AND AGREED:**

**LENDER:**

**GEMCAP LENDING I, LLC**

By: \_\_\_\_\_

Richard Ellis, Co-President

[SIGNATURE PAGE – PATENT AND TRADEMARK SECURITY AGREEMENT]

**EXHIBIT 1**

**Patents**

See attached

| Patent # | Title  | Country              | Start #           | Timing     | Status    | Issue Date | Class #          |
|----------|--|----------------------|-------------------|------------|-----------|------------|------------------|
| IGR0801  | 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 8,131,826 B2  |
|          |  | EP                   | 8165924.5         | 10/6/2008  | Published | 11/25/2009 | EP 2 124 042 A1  |
|          |  | GCC                  | 2008/1831         | 10/11/2009 | Allowed   | 6/11/2015  | GC0003625        |
|          |  | Algeria              | 080891            | 12/1/2008  | Issued    | 1/20/2011  | 8192             |
|          |  | Brazil               | PI0900963-9       | 3/31/2009  | Pending   |            |                  |
|          |  | Canada               | 2,646,857         | 12/16/2008 | Issued    | 8/4/2013   | 2,646,857        |
|          |  | Libya                | 3776/2009         | 4/5/2009   | Pending   |            |                  |
|          |  | Mexico               | MX/a/2009/005435  | 5/21/2009  | Issued    | 2/7/2012   | 265692           |
|          |  | US                   | 12/276,430        | 11/24/2008 | Issued    | 4/7/2012   | US 8,155,377 B2  |
|          |  | United Arab Emirates | 529/2011          | 5/24/2011  | Abandoned | 5/9/2016   |                  |
| IGR0802  | Method For Determining Rock Physics Relationships Using Computer Tomographic Images Thereof              | Australia            | 2009316427        | 5/27/2011  | Issued    | 6/6/2015   | 2009316427       |
|          |  | EP                   | 9764136.9         | 6/20/2011  | Published | 8/24/2011  | 2359334          |
|          |  | PCT                  | PCT/US2009/065401 | 11/20/2009 | Published | 5/27/2010  | WO 2010/059987   |
|          |  | Saudi Arabia         | 109300705         | 11/18/2009 | Issued    | 10/6/2013  | 3198             |
|          |  | US                   | 12/276,431        | 11/24/2008 | Issued    | 5/1/2012   | US 8,170,749 B2  |
|          |  | PCT                  | PCT/US2009/065246 | 11/20/2009 | Abandoned | 5/20/2011  | WO 2010/059980   |
|          |  | Saudi Arabia         | 109300703         | 11/18/2009 | Abandoned |            |                  |
|          |  | US                   | 12/276,432        | 11/24/2008 | Issued    | 12/20/2011 | US 8,081,796 B2  |
|          |  | PCT                  | PCT/US2009/065429 | 11/22/2009 | Abandoned | 5/20/2011  | WO 2010/060001   |
|          |  | Saudi Arabia         | 109300707         | 11/18/2009 | Abandoned |            |                  |
| IGR0804  | Method For Determining Properties Of Fractured Rock Formations Using Computer Tomographic Images Thereof | US                   | 12/276,952        | 11/24/2008 | Issued    | 12/27/2011 | US 8,085,974 B2  |
|          |  | United Arab Emirates | 526/2011          | 5/24/2011  | Abandoned | 5/4/2016   |                  |
|          |  | Australia            | 2009316347        | 5/27/2011  | Issued    | 8/14/2014  | 2009316347       |
|          |  | EP                   | 09828329.4        | 6/14/2011  | Issued    | 4/27/2013  | EP 2,359,311 B1  |
|          |  | 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 2,389,311 B1  |
|          |  | Great Britain        | 2359311           | 6/14/2011  | Issued    | 3/27/2013  | ?                |
|          |  | Norway               | 2359311           | 6/14/2011  | Issued    | 3/27/2013  | 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             |
| IGR0806  | Method For Determining Permeability Of Rock Formation Using Computer Tomographic Images Thereof          | US                   | 12/325,151        | 11/29/2008 | Issued    | 12/20/2011 | US 8,081,802 B2  |
|          |  | United Arab Emirates | 534/2011          | 5/26/2011  | Abandoned | 5/9/2016   |                  |
|          |  | Australia            | 2009319885        | 5/27/2011  | Issued    | 5/7/2013   | 41,2009319885 B2 |
| EP       | 9799447.9  | 6/20/2011            | Published         | 9/28/2011  | 2368106   |            |                  |



|  |  |                      |                   |            |           |            |                   |
|--|--|----------------------|-------------------|------------|-----------|------------|-------------------|
|  |  | PCT                  | PCT/US2008/065431 | 11/22/2008 | Published | 6/3/2010   | WO 2010/062839 A1 |
|  |  | Saudi Arabia         | 109300700         | 11/18/2008 | Issued    | 10/1/2013  | 3478              |
|  |  | US-Provisional       | 61/227651         | 7/22/2009  | Converted | 7/19/2010  |                   |
|  |  | US                   | 12/838,746        | 7/19/2010  | Issued    | 11/28/2013 | US 8,590,342 B2   |
|  |  | PCT                  | PCT/US2010/042803 | 7/21/2010  | Published | 1/27/2011  | WO 2011/022551 A1 |
|  |  | Australia            | 20102/8161        | 1/19/2012  | Issued    | 6/19/2014  | 201027916         |
|  |  | Brazil               | 1120120014226     | 1/20/2012  | Pending   |            |                   |
|  |  | EP                   | 10765702.5        | 1/11/2012  | Issued    | 6/11/2015  | 2457082           |
|  |  | Germany              | 2457082           | 6/25/2015  | Pending   |            |                   |
|  |  | France               | 2457082           | 6/25/2015  | Pending   |            |                   |
|  |  | US                   | 12/790,985        | 5/29/2010  | Issued    | 11/12/2013 | US 8,383,170 B2   |
|  |  | United Arab Emirates | 1220/2012         | 11/27/2012 | Abandoned | 1/29/2015  |                   |
|  |  | Australia            | 2011256584        | 11/20/2012 | Abandoned | 2/12/2014  |                   |
|  |  | 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       | 61/484,254        | 5/10/2011  | Converted | 5/7/2012   |                   |
|  |  | US                   | 13/465,105        | 5/7/2012   | Amended   |            |                   |
|  |  | US-Provisional       | 61/508,880        | 7/12/2011  | Converted | 7/2/2012   |                   |
|  |  | US                   | 13/639,543        | 7/22/2012  | Issued    | 11/10/2015 | US 9,163,326 B2   |
|  |  | PCT                  | PCT/US2012/045220 | 7/2/2012   | Published | 1/17/2013  | WO 2013/009512    |
|  |  | GCC                  | 201221712         | 7/6/2012   | Pending   |            |                   |
|  |  | EP                   | 1274138.7         | 12/27/2013 | Published | 5/21/2014  | 2732135           |
|  |  | India                | 187/2012          | 7/11/2012  | Abandoned | 9/12/2012  |                   |
|  |  | Australia            | 2012283030        | 12/20/2013 | Accepted  |            |                   |
|  |  | Brazil               | 1120140007586     | 1/3/2014   | Pending   |            |                   |
|  |  | Canada               | 2840942           | 12/31/2013 | Pending   |            |                   |
|  |  | China                | 20128004434.0     | 3/12/2014  | Published | 7/2/2014   | CN10390693A       |
|  |  | Colombia             | 14005026          | 1/13/2014  | Issued    | 12/5/2015  | 4,098,026 AB      |
|  |  | Mexico               | MX/a/2014/000429  | 1/10/2014  | Published | 11/4/2014  | 5562503           |
|  |  | Russia               | 2014104798        | 2/11/2014  | Published | 8/20/2015  | 23                |
|  |  | US-Provisional       | 61/547,095        | 10/14/2011 | Converted | 10/11/2012 |                   |
|  |  | US                   | 13/649,198        | 10/11/2012 | Pending   |            |                   |

| IGR2011AL | An Efficient Method For Selecting Representative Elementary Volume In Digital Representations Of Porous Media                       | US-Amended     | 13/649,198        | 2/6/2015   | Issued     | 9/22/2015       | US 9,142,045 |                    |
|-----------|---|----------------|-------------------|------------|------------|-----------------|--------------|--------------------|
| IGR2011AN | Dual Image Method And System For Generating A Multi-Dimensional Image Of A Sample   | US-Provisional | 61/618,265        | 3/30/2012  | Converted  |                 | 7/1/2012     |                    |
|           |   | US             | 13,546,953        | 7/11/2012  | Abandoned  |                 | 6/8/2016     | US 2013/0262028 A1 |
|           |   | GCC            | 201323549         | 2/13/2013  | Pending    |                 |              |                    |
|           |   | PCT            | PCT/US2013/024593 | 2/4/2013   | Published  |                 | 10/3/2013    | WO 2013/0147995    |
|           |   | EP             | 13706333.5        | 2/4/2013   | Published  |                 | 2/4/2015     | 2831578            |
|           |   | Australia      | 2013240579        | 3/30/2012  | Issued     |                 | 9/27/2015    | 2013240579         |
|           |   | Brazil         | 1120140243573     | 9/20/2013  | Pending    |                 |              |                    |
|           |   | Canada         | 2866872           | 2/4/2013   | Pending    |                 |              |                    |
|           |   | China          | 201380029080 X    | 12/1/2014  | Published  |                 | 2/4/2015     | CN 104335042 A     |
|           |   | Colombia       | 14218434          | 10/2/2014  | Pending    |                 |              |                    |
|           |   | Mexico         | MX/a/2014/031709  | 9/28/2014  | Amended    |                 | 11/20/2015   |                    |
|           |   | Russia         | 2014143802        | 10/29/2014 | Issued     |                 | 6/6/2016     | 2686397            |
|           |   | US-Provisional | 61/547,090        | 10/14/2011 | Converted  |                 | 10/11/2012   |                    |
|           |   | US             | 13,649,409        | 10/11/2012 | Issued     |                 | 6/22/2015    | US 9,084,338 B2    |
|           |   | GCC            | 2012-22516        | 11/13/2012 | Pending    |                 |              |                    |
| PCT       | PCT/US2012/059689   | 10/11/2012     | Published         |            | 4/18/2013  | WO 2013/0055876 |              |                    |
| Australia | 2012322799  | 4/1/2014       | Issued            |            | 11/30/2015 | AU 201262799    |              |                    |
| Brazil    | 1120140090939   | 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            |            | 12/27/2015 | MX 339925       |              |                    |
| Russia    | 2014119280  | 5/13/2014      | Published         |            | 11/20/2015 | RU2014119280A   |              |                    |
| IGR2011AO | Method For Estimating Effective Atomic Number And Bulk Density Of Rock Samples Using Dual Energy X-Ray Computed Tomographic Imaging | US-Provisional | 61/651,880        | 7/28/2011  | Converted  |                 | 6/20/2012    |                    |
|           |   | US             | 13,627,980        | 6/20/2012  | Issued     |                 | 10/7/2014    | US 8,855,264 B2    |
|           |   | GCC            | 201221796         | 7/21/2012  | Pending    |                 |              |                    |
|           |   | PCT            | PCT/US2012/043213 | 6/20/2012  | Published  |                 | 1/31/2013    | WO 2013/015914     |
|           |   | EP             | 12733285.5        | 11/8/2014  | Published  |                 | 6/4/2014     | 2737297            |
|           |   | Australia      | 2012287447        | 12/31/2013 | Issued     |                 | 10/30/2014   | 2012287447         |
|           |   | Brazil         | 1120140155536     | 1/22/2014  | Pending    |                 |              |                    |
|           |   | Canada         | 2480951           | 6/20/2012  | Pending    |                 |              |                    |
|           |   | China          | 201280937280.2    | 1/28/2014  | Published  |                 | 4/9/2014     | CN103718016A       |
|           |   | Colombia       | 14014386          | 1/24/2014  | Published  |                 | 4/28/2014    | 693                |
|           |   | India          | 215/2012          | 7/24/2012  | Abandoned  |                 | 9/12/2012    |                    |

|           |   |                |                     |            |           |            |                   |
|-----------|---|----------------|---------------------|------------|-----------|------------|-------------------|
| IGR2011AR | A Method And System For Estimating Properties Of Porous Media Such As Fine Pore Or Tight Rocks  | US-Provisional | 6/16/17 099         | 3/29/2012  | Converted | 3/26/2013  |                   |
|           |   | US             | 13950,543           | 3/29/2013  | Issued    | 2/1/2015   | US 9,281,028 B2   |
| IGR2011AU | Characterization Of Subterranean Formation Properties Derived From Quantitative X-Ray CT Scans Of Drill Cuttings  | PCT            | PCT/US2013/033810   | 3/29/2013  | Abandoned |            |                   |
|           |   | US-Provisional | 6/1/2013 801        | 9/16/2011  | Converted | 9/14/2012  |                   |
| IGR2011AY | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | US             | 13952,758           | 6/15/2012  | Issued    | 7/14/2015  | US 9,080,846 B2   |
|           |   | GCC            | 24652               | 6/15/2013  | Pending   |            |                   |
| IGR2011AW | Digital Rock Analysis Systems and Methods with Multiphase Flow REV Determination  | EP             | 13803847.6          | 6/2/2013   | Published | 4/22/2015  | 2862007           |
|           |   | PCT            | PCT/US2013/044773   | 6/2/2013   | Published | 12/19/2013 | WO 2013/188239 A2 |
| IGR2011AX | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | Australia      | 2013274604          | 6/7/2013   | Pending   |            |                   |
|           |   | Brazil         | BR 11 2014 031264.8 | 12/1/2014  | Pending   |            |                   |
| IGR2011AV | Method and System for Estimating Rock Properties From Rock Samples Using Digital Rock Physics Imaging   | China          | 20138003517.0       | 7/7/2013   | Published | 5/20/2015  | CN 104641259 A    |
|           |   | Colombia       | 157316              | 7/7/2013   | Published | 1/28/2015  | 717 #141          |
| IGR2011AZ | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | Canada         | 46097-3001          | 6/7/2013   | Pending   |            |                   |
|           |   | Russia         | 2015100412          | 8/10/2012  | Converted | 8/8/2013   |                   |
| IGR2011BA | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | US-Provisional | 6/1/2013 700        | 8/8/2013   | Issued    | 6/2/2015   | US 9,047,513 B2   |
|           |   | US             | 13982,041           | 8/8/2013   | Issued    | 7/19/2015  | US 9,196,547 B2   |
| IGR2011BB | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | US (DMA)       | 14704,995           | 5/6/2015   | Issued    |            |                   |
|           |   | GCC            | 201325143           | 8/13/2013  | Pending   |            |                   |
| IGR2011BC | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | PCT            | PCT/US2013/054083   | 8/8/2013   | Published | 2/13/2014  | WO 2014/025970    |
|           |   | Australia      | 2013298531          | 2/18/2015  | Accepted  |            |                   |
| IGR2011BD | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | Mexico         | MX/a/2015/001214    | 1/26/2015  | Pending   |            |                   |
|           |   | Russia         | 2015104182          | 8/8/2013   | Pending   |            |                   |
| IGR2011BE | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | US-Provisional | 6/16/49 099         | 5/18/2012  | Converted | 5/16/2013  |                   |
|           |   | US             | 13895,454           | 5/16/2013  | Issued    | 6/2/2015   | US 9,046,599 B2   |
| IGR2011BF | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | PCT            | PCT/US2013/041276   | 5/16/2013  | Published | 11/21/2013 | WO 2013/173540    |
|           |   | GCC            | 2013-24417          | 5/18/2013  | Pending   |            |                   |
| IGR2011BG | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | EP             | 13728025.1          | 11/17/2014 | Published | 3/25/2015  | 2850593           |
|           |   | Australia      | 2013262735          | 11/10/2014 | Pending   |            |                   |
| IGR2011BH | Method For Improving The Accuracy Of Rock Property Values Derived From Digital Images/CTV - Output Display For Segmented Digital Volume Representing Porous Media | Brazil         | 1120140287830       | 11/18/2014 | Pending   | 3/8/2016   |                   |

|  |  |                   |                |                |           |                    |                |
|--|--|-------------------|----------------|----------------|-----------|--------------------|----------------|
| IGR2012AA<br>Method of Determining Reservoir Properties and Quality with Multiple Energy X-Ray Imaging                               | Canada   | 2871781           | 5/16/2013      | Pending        |           |                    |                |
|  | China  | 201380038247.6    | 1/16/2015      | Published      | 4/9/2015  | CN 104471614 A     |                |
|  | Colombia   | 14253136          | 11/18/2014     | Published      | 12/1/2014 | 1374               |                |
|  | Mexico   | MX/a/2014/013970  | 1/11/4/2014    | Issued         | 5/9/2015  | 33054              |                |
|  | Russia   | 2014151234        | 12/17/2014     | Pending        |           |                    |                |
|  | US-Provisional   | 61/666,153        | 1/13/2012      | Converted      | 1/10/2013 |                    |                |
|  | US   | 13,978,106        | 1/10/2013      | Issued         | 1/20/2015 | US 8,896,948 B2    |                |
|  | PCT  | PCT/US2013/028936 | 1/10/2013      | Published      | 7/18/2013 | WO 2013/106508     |                |
|  | GCC  | 2013-29313        | 1/12/2013      | Pending        |           |                    |                |
|  | Brazil   | 1120140172587     | 7/11/2014      | Pending        |           |                    |                |
|  | Canada   | 2,860,575         | 1/10/2013      | Pending        |           |                    |                |
|  | IGR2012AE<br>Digital Rock Analysis Systems and Methods with Reliable Multiphase Permeability Determination | China             | 201380913726.2 | 9/11/2014      | Published | 11/28/2014         | CN 104169714 A |
| Colombia   |  | 14,148,163        | 7/10/2014      | Published      | 8/11/2014 | 898                |                |
| Mexico   |  | MX/a/2014/008345  | 7/7/2014       | Issued         | 9/3/2015  | 332653             |                |
| US   |  | 13,649,354        | 7/13/2012      | Published      | 1/16/2014 | US 2014/0019054 A1 |                |
| PCT  |  | PCT/US2013/049113 | 7/12/2012      | Published      | 1/16/2014 | WO 2014/011448     |                |
| EP   |  | 13817013.9        | 7/12/2013      | Published      | 5/20/2015 | 2872741            |                |
| GCC  |  | 24927             | 7/11/2013      | Pending        |           |                    |                |
| Australia  |  | 2013289017        | 7/12/2013      | Pending        |           |                    |                |
| Brazil   |  | BR 112015000697-3 | 7/12/2013      | Pending        |           |                    |                |
| China  |  | 201380037470.9    | 7/12/2013      | Published      | 5/13/2015 | CN 104619952 A     |                |
| China  |  | 11112278831       | 2/15/2015      | Published      | ?         | ?                  |                |
| Canada   |  | 2,917,494         | 7/12/2013      | National Phase |           |                    |                |
| IGR2012AF<br>Digital Rock Analysis Systems and Methods that Reliably Predict a Porosity-Permeability Trend                           | US-Provisional   | 61/662,541        | 8/23/2012      | Converted      | 8/21/2013 |                    |                |
|  | US   | 13,972,772        | 8/21/2013      | Published      | 2/27/2014 | US 2014/0058676 A1 |                |
|  | GCC  | 25200             | ?              | Pending        |           |                    |                |
|  | EP   | 138315395.5       |                | Published      | 7/1/2015  | 2888612            |                |
|  | PCT  | PCT/US2013/056244 | 8/22/2013      | Published      | 2/27/2014 | WO 2014/031882 A1  |                |
|  | Australia  | 2013305972        |                | Pending        |           |                    |                |
|  | Brazil   | BR 1120150037283  |                | Pending        |           |                    |                |
|  | China  | 201380051153.2    | 3/30/2015      | Pending        |           |                    |                |
|  | Colombia   | 15,056,559        | 8/22/2013      | Published      | 3/11/2015 | 314                |                |
|  | US   | 13,648,339        | 7/13/2012      | Issued         | 8/22/2015 | US 9,140,117       |                |
|  | PCT  | PCT/US2013/04531  | 6/13/2013      | Published      | 1/16/2014 | WO 2014/011348     |                |
|  | GCC  | 201324928         | 7/11/2013      | Pending        |           |                    |                |
| Russia   | 2015104798   | 2/12/2015         | Pending        |                |           |                    |                |
| IGR2012AG<br>Method For Evaluating Relative Permeability For Fractional Multi-Phase, Multi-Component Fluid Flow Through Porous Media |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |
|  |  |                   |                |                |           |                    |                |

|               |   |                |                   |            |                |            |                    |
|---------------|---|----------------|-------------------|------------|----------------|------------|--------------------|
| IGR2012A1H-AI | A Method and System For Multi-Energy Computer Tomographic Cuttings Analysis   | US-Provisional | 6/18/06, 9/4/5    | 5/11/2012  | Converted      | 5/9/2013   |                    |
|               |   | US             | 13,690,367        | 5/9/2013   | Published      | 11/14/2013 | US 2013/0301794 A1 |
|               |   | GCC            | 2013-24559        | 5/11/2013  | Pending        |            |                    |
|               |   | PCT            | PCT/US2013/040259 | 5/9/2013   | Published      | 11/14/2013 | WO 2013/169973     |
|               |   | Australia      | 2013269470        | 5/9/2013   | Abandoned      | 6/17/2015  |                    |
|               |   | Brazil         | 1120140266638     | 1/20/2015  | Pending        |            |                    |
|               |   | Canada         | 2,872,067         | 5/9/2013   | Pending        |            |                    |
|               |   | China          | 2013800589628     | 1/20/2015  | Published      | 3/18/2015  | CN 104428661 A     |
|               |   | Colombia       | 14248174          | 11/10/2014 | Abandoned      | 5/7/2015   |                    |
|               |   | EP             | 13729117.5        | 10/30/2014 | Published      | 3/18/2015  | 2847580            |
|               |   | US-Provisional | 61/706,505        | 9/27/2012  | Converted      | 9/26/2013  |                    |
|               |   | US             | 14/038,376        | 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 2014/052665 |            |                    |
| 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   |                |            |                    |
| Colombia      | 15-87925  | 9/26/2013      | Pending           |            |                |            |                    |
| IGR2012AJ     | Computed Tomography (CT) Systems and Methods Analyzing Rock Property Changes Resulting from a Treatment                                   | US-Provisional | 61/721,161        | 11/1/2012  | Converted      | 10/24/2013 |                    |
|               |   | US             | 14/061,772        | 10/24/2013 | Issued         | 9/8/2015   | US 8,412,753 B2    |
|               |   | GCC            | 2013-25664        | 10/30/2013 | Pending        |            |                    |
|               |   | PCT            | PCT/US2013/066476 | 10/24/2013 | Published      | 5/8/2014   | WO 2014/070564 A1  |
|               |   | Australia      | 2013338324        | 10/24/2013 | Pending        |            |                    |
|               |   | Brazil         | 1120150097797     | 4/29/2015  | Pending        |            |                    |
|               |   | Canada         | 2,888,623         | 10/24/2013 | Amended        |            |                    |
|               |   | China          | 201380069038 8    | 6/30/2015  | Published      | 9/16/2015  | CN 104903711 A     |
|               |   | Colombia       | 150993223         | 4/30/2015  | Published      | 6/31/2015  | 574                |
|               |   | EP             | 13766125.8        | 4/27/2015  | Amended        |            |                    |
|               |   | US-Provisional | 61/684,978        | 8/20/2012  | Converted      | 10/30/2012 |                    |
|               |   | US             | 13,663,654        | 10/30/2012 | Published      | 2/20/2014  | US 2014/0052420 A1 |
| IGR2012AP     | Method And System For Combining Tomographic Imaging And Well Data To Obtain High-Resolution Rock Mechanical And Elastic Property Profiles | PCT            | PCT/US2013/057899 | 9/4/2013   | Published      | 3/12/2015  | WO 2015/034472     |
|               |   | Mexico         | 3091-037-01-1X    | 2/8/2016   | National Phase |            |                    |

|           |  |                |                   |           |                |           |                    |                    |
|-----------|--|----------------|-------------------|-----------|----------------|-----------|--------------------|--------------------|
| IGR2012AQ | Method for estimating physical properties of objects from X-Ray attenuation measurements at multiple energy levels | US-Provisional | 6/17/59,069       | 1/31/2013 | Abandoned      |           |                    |                    |
|           |  | US-Provisional | 6/1/645,272       | 7/11/2013 | Converted      |           |                    |                    |
| IGR2013E  | Method for Characterizing a Wellbore Depth Interval from Rock Fragments  | PCT            | PCT/US2014/046311 | 7/11/2014 | Published      |           | WO 2015/006670 A1  |                    |
|           |  | Russia         | P17033448RU       | 2/2/2015  | National Phase |           |                    |                    |
|           |  | Saudi Arabia   | 516379377         | 2/2/2016  | National Phase |           |                    |                    |
|           |  | Australia      | 2014267028        | 7/11/2014 | National Phase |           |                    |                    |
| IGR2013F  | Cuttings-Based Well Logging Methods  | US-Provisional | 6/1/856,521       | 7/19/2013 | Converted      |           | 7/18/2014          |                    |
| US        |  | 14/035,817     | 7/18/2014         | Published |                | 1/22/2015 | US 2015/0025863 A1 |                    |
| IGR2013G  | Conditioning Of Expanded Permsity  | US-Provisional | 6/1/863,398       | 8/8/2013  | Published      |           | 3/4/2016           | US 1,4909,957      |
|           |  | PCT            | PCT/US2014/050412 | 8/8/2014  | Published      |           | 2/12/2015          | WO 2015/021424 A1  |
|           |  | Australia      | 2014-306263       | 8/8/2014  | Pending        |           |                    |                    |
| IGR2014B  | Representative Elementary Volume Determination Via Clustering-Based Statistics                                     | US-Provisional | 6/1/972,990       | 3/31/2014 | Converted      |           |                    |                    |
|           |  | PCT            | PCT/US2015/023419 | 3/30/2015 | Published      |           | 10/8/2015          | WO 2015/153505 A1  |
| IGR2014C  | Digital Rock Physics-Based Trend Determination and Usage for Upscaling   | US-Provisional | 6/1/872,983       | 3/31/2014 | Converted      |           |                    |                    |
|           |  | PCT            | PCT/US2015/023420 | 3/30/2015 | Published      |           | 10/8/2015          | WO 2015/153506 A1  |
|           |  | US-Provisional | 6/1/989,618       | 5/7/2014  | Converted      |           | 5/7/2015           |                    |
|           |  | US             | 14/704,996        | 5/6/2015  | published      |           |                    | US 2015/0323517 A1 |
| IGR2014H  | Method And System For Spatially Resolved Wettability Determination   | PCT            | PCT/US2015/029331 | 5/6/2015  | Pending        |           |                    |                    |
|           |  | US-Provisional | 6/1/989,621       | 5/7/2014  | Converted      |           | 5/7/2015           |                    |
|           |  | US             | 14/704,957        | 5/6/2015  | published      |           |                    | US 2015/0323516 A1 |
|           |  | PCT            | PCT/US2015/029332 | 5/6/2015  | Pending        |           |                    |                    |
| IGR2014L  | Improved Digital Pore Alteration Methods and Systems   | US-Provisional | 6/2/055,242       | 9/23/2014 | Converted      |           | 9/23/2015          |                    |
|           |  | US             | 14/863,171        | 9/23/2015 | published      |           |                    | US 2016/0093094 A1 |
|           |  | PCT            | PCT/US2015/051749 | 9/23/2015 | Pending        |           |                    |                    |
| IGR2014M  | Geochemistry Information from Pyrolysis Induced by Laser Induced Breakdown Spectroscopy                            | US-Provisional | 6/2/038,950       | 8/18/2014 | Converted      |           | 9/17/2015          |                    |
|           |  | US             | 14/827,398        | 8/17/2015 | Pending        |           |                    |                    |

|          |   |                |                   |            |         |  |
|----------|---|----------------|-------------------|------------|---------|--|
|          |   | PCT            | PCT/US2015/045451 | 8/17/2015  | Pending |  |
| IGR2014Q | Fluid Characterization of Porous Materials LIBS   | US-Provisional | 62/083,940        | 11/25/2014 | Filed   |  |
|          |   | PCT            | PCT/US2015/062069 | 11/29/2015 | Filed   |  |
| IGR2014Q | Cuttings Analysis for Improved Downhole NMR Characterisation  | US-Provisional | 62/104,099        | 1/16/2015  | Filed   |  |
|          |   | PCT            | PCT/US2015/013619 | 1/15/2016  | Filed   |  |
|          |   | US-Provisional | 62/106,712        | 1/22/2015  | Filed   |  |
| IGR2014R | Methods and Systems of Testing Formation Samples Using a Rock Chamber   | US-Provisional | 62/147,977        | 4/15/2015  | Filed   |  |
| IGR2015E | Method for Determining Fabric and Unraced Properties of Geological Sample   | US-Provisional | 62/169,171        | 6/1/2015   | Filed   |  |
| IGR2015F | Combined Vibrational Spectroscopy and Laser Induced Breakdown Spectroscopy for Improved Mineralogical and Geochemical Characterization of Petroleum Source or Reservoir Rocks | US-Provisional | 62/222,249        | 9/23/2015  | Filed   |  |
| IGR2015H | Measurement of Noble Gas Adsorption via Laser-Induced Breakdown Spectroscopy for Methanify Determination  | US-Provisional | 62/219,363        | 9/16/2015  | Filed   |  |
| IGR2015I | Method for Determining Porosity Associated with Organic Matter in a Well or Formation   | US-Provisional |                   |            | Filed   |  |

**EXHIBIT 2**

**Trademarks**

See attached



| Item Name   | Description   | Quantity | Material | Country | Estimated Value | Completion 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        |
| ShalePay    | 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 A-1

### ASSIGNMENT OF PATENTS

This **ASSIGNMENT OF PATENTS** (this "Assignment"), dated as of \_\_\_\_\_, 201\_ made by INGRAIN, INC., a Delaware corporation with a principal place of business located at 3733 Westheimer Road, Houston, (the "Assignor") in favor of in favor of GemCap Lending I, LLC, a Delaware limited liability company ("Lender") and the Assignee as set forth below.

#### RECITALS:

**WHEREAS**, Assignor has an ownership interest in the Patents described on **Exhibit 1** attached hereto (the "Patents"); and

**WHEREAS**, Assignor and Lender are parties to that certain Loan and Security Agreement, dated as of August 31, 2016 (as from time to time amended or supplemented, the "Loan Agreement"; capitalized terms used and not defined herein shall have the meanings set forth in the Loan Agreement); and

**WHEREAS**, Assignor granted to Lender a security interest in substantially all of Assignor's property and assets to including the Patents and the goodwill associated therewith to secure the performance of its obligations under the Loan Agreement and the other Loan Documents; and

**WHEREAS**, it was a condition precedent to the Lender's entry into the Loan Agreement that Assignor shall have executed and delivered this Assignment; and

**WHEREAS**, one or more Events of Default have occurred under the Loan Agreement and the Lender has the right to exercise its rights and remedies under the Loan Agreement and the other Loan Documents; and

**WHEREAS**, by this instrument, Assignor is hereby assigning the Patents to the Lender or its designee as set forth herein (such party defined herein as the Assignee).

**NOW, THEREFORE**, for good and valuable consideration, the receipt and adequacy of are hereby acknowledged, Assignor hereby assigns to Lender the Patents as follows:

1. Assignment of Patents. Assignor hereby assigns, transfers, and conveys to \_\_\_\_\_, a \_\_\_\_\_ with offices at \_\_\_\_\_ (the "Assignee") all of Assignor's right, title and interest in and to the Patents together with the goodwill associated therewith.

2. Filing and Recordation. Assignee is hereby authorized to file or record this Assignment or any other instrument in such public offices and with such

governmental authorities, including the United States Patent and Trademark Office, as Assignee may determine from time to time for the purpose of evidencing the foregoing assignment.

**IN WITNESS WHEREOF**, Assignor has executed this Assignment as of the date first above written.

**ASSIGNOR:**

**INGRAIN, INC.**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**EXHIBIT A-2**

**ASSIGNMENT OF TRADEMARKS**

This **ASSIGNMENT OF TRADEMARKS** (this "Assignment"), dated as of \_\_\_\_\_, 201\_, made by INGRAIN, INC., a Delaware corporation with a principal place of business located at 3733 Westheimer Road, Houston, (the "Assignor") in favor of in favor of GemCap Lending I, LLC, a Delaware limited liability company ("Lender") and the Assignee as set forth below.

**RECITALS:**

**WHEREAS**, Assignor has an ownership interest in the Trademarks described on **Exhibit 1** attached hereto (the "Trademarks"); and

**WHEREAS**, Assignor and Lender are parties to that certain Loan and Security Agreement, dated as of August 31, 2016 (as from time to time amended or supplemented, the "Loan Agreement"; capitalized terms used and not defined herein shall have the meanings set forth in the Loan Agreement); and

**WHEREAS**, Assignor granted to Lender a security interest in substantially all of Assignor's property and assets to including the Trademarks and the goodwill associated therewith to secure the performance of its obligations under the Loan Agreement and the other Loan Documents; and

**WHEREAS**, it was a condition precedent to the Lender's entry into the Loan Agreement that Assignor shall have executed and delivered this Assignment; and

**WHEREAS**, one or more Events of Default have occurred under the Loan Agreement and the Lender has the right to exercise its rights and remedies under the Loan Agreement and the other Loan Documents; and

**WHEREAS**, by this instrument, Assignor is hereby assigning the Trademarks to the Lender or its designee as set forth herein (such party defined herein as the Assignee).

**NOW, THEREFORE**, for good and valuable consideration, the receipt and adequacy of are hereby acknowledged, Assignor hereby assigns to Lender the Trademarks as follows:

1. Assignment of Trademarks. Assignor hereby assigns, transfers, and conveys to \_\_\_\_\_, a \_\_\_\_\_ with offices at \_\_\_\_\_ (the "Assignee") all of Assignor's right, title and interest in and to the Trademarks together with the goodwill associated therewith.

2. 3. Filing and Recordation. Assignee is hereby authorized to file or record this Assignment or any other instrument in such public offices and with such governmental authorities, including the United States Patent and Trademark Office, as

Assignee may determine from time to time for the purpose of evidencing the foregoing assignment.

**IN WITNESS WHEREOF**, Assignor has executed this Assignment as of the date first above written.

**ASSIGNOR:**

**INGRAIN, INC.**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_