

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | SECURITY AGREEMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| OBJECT RESERVOIR, INC. | 11/19/2008 |

RECEIVING PARTY DATA

| | |
|-------------------|--------------------------|
| Name: | SILICON VALLEY BANK |
| Street Address: | 380 INTERLOCKEN CRESCENT |
| Internal Address: | SUITE 600 |
| City: | BROOMFIELD |
| State/Country: | COLORADO |
| Postal Code: | 80021 |

PROPERTY NUMBERS Total: 9

| Property Type | Number |
|----------------|---------|
| Patent Number: | 7369973 |
| Patent Number: | 7260508 |
| Patent Number: | 7149671 |
| Patent Number: | 7043413 |
| Patent Number: | 7027964 |
| Patent Number: | 7006951 |
| Patent Number: | 6941255 |
| Patent Number: | 6674432 |
| Patent Number: | 6633837 |

CORRESPONDENCE DATA

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 Correspondent Name: MICHAEL J. BRIGNATI, PH.D.

OP \$360.00 7369973

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ATTORNEY DOCKET NUMBER:

220763.000976

NAME OF SUBMITTER:

Michael J. Brignati, Ph.D.

Total Attachments: 6

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of November 19, 2008 by and between SILICON VALLEY BANK ("**Bank**") and OBJECT RESERVOIR, INC. ("**Grantor**").

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodation 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). 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.

B. 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, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Loan Agreement, 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 (including without limitation those copyrights, patents and trademarks listed on Schedules 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.

[Signatures Appear on the Following Page]

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.

GRANTOR:

Address of Grantor:

500 Capital of Texas Hwy, North
Suite 6-225
Austin, Texas 78746
Attn: Mr. Roger Hughes

OBJECT RESERVOIR, INC.

By: *Roger H. Hughes*
Name: *ROGER H. HUGHES*
Title: *CFO*

BANK:

Address of Bank:

Silicon Valley Bank
380 Interlocken Crescent, Suite 600
Broomfield, Colorado 80021
Attn: Ms. Krista A. Hall

SILICON VALLEY BANK

By: *Krista A. Hall*
Name: *Krista Hall*
Title: *Relationship Manager*

SCHEDULE A

Copyrights

| <u>Description</u> | <u>Registration/ Application Number</u> | <u>Registration / Application Date</u> | <u>Security Interest/ Ownership Issues</u> |
|--------------------|-------------------------------------------------|----------------------------------------------------|------------------------------------------------|
| NONE | N/A | N/A | N/A |

SCHEDULE B

Patents

| <u>Title</u> | <u>Patent/Patent Application Number (Publication Number)</u> | <u>Issue/Filing Date</u> |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------|
| METHOD AND SYSTEM FOR REPRESENTING RESERVOIR SYSTEMS | 7,369,973 | 05/06/2008 |
| METHOD AND SYSTEM FOR HIGH-RESOLUTION MODELING OF A WELL BORE IN A HYDROCARBON RESERVOIR | 7,260,508 | 08/21/2007 |
| METHOD AND SYSTEM FOR COORDINATE TRANSFORMATION TO MODEL RADIAL FLOW NEAR A SINGULARITY | 7,149,671 | 12/12/2006 |
| METHOD FOR MODELING AN ARBITRARY WELL PATH IN A HYDROCARBON RESERVOIR USING ADAPTIVE MESHING | 7,043,413 | 05/09/2006 |
| METHOD AND SYSTEM FOR SOLVING FINITE ELEMENT MODELS USING MULTI-PHASE PHYSICS | 7,027,964 | 04/11/2006 |
| METHOD FOR SOLVING FINITE ELEMENT MODELS USING TIME SLABBING | 7,006,951 | 02/28/2006 |
| FEATURE MODELING IN A FINITE ELEMENT MODEL | 6,941,255 | 09/06/2005 |
| METHOD AND SYSTEM FOR MODELING GEOLOGICAL STRUCTURES USING AN UNSTRUCTURED FOUR DIMENSIONAL MESH | 6,674,432 | 01/06/2004 |
| METHOD AND SYSTEM FOR GENERATING SOFTWARE CODE USING A SYMBOLIC LANGUAGE TRANSLATOR | 6,633,837 | 10/14/2003 |

SCHEDULE C

Trademarks

| <u>Description</u> | <u>Registration/ Application Number</u> | <u>Registration/ Application Date</u> |
|----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|
| DYNAMIC RESERVOIR CHARACTERIZATION (Registered) | 3,105,893 | 06/20/2006 |
| DRC (Registered) | 2,962,412 | 06/14/2005 |
| RESOLVE (Registered) | 3,010,632 | 11/01/2005 |
| OBJECT RESERVOIR (Registered) | 3,128,655 | 08/15/2006 |
| SMART TEAM (Pending) | 77/263,790 | 08/24/2007 |