

Form PTO-1594 (Rev. 01-09)
 OMB Collection 0651-0027 (exp. 02/28/2009)

U.S. DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office

RECORDATION FORM COVER SHEET TRADEMARKS ONLY

To the Director of the U. S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

ENTESSA, INC.

- Individual(s) Association
 General Partnership Limited Partnership
 Corporation- State: Delaware
 Other _____

Citizenship (see guidelines) _____

Additional names of conveying parties attached? Yes No

3. Nature of conveyance /Execution Date(s) :

Execution Date(s) June 4, 2010

- Assignment Merger
 Security Agreement Change of Name
 Other _____

2. Name and address of receiving party(ies)

Additional names, addresses, or citizenship attached? Yes No

Name: Square 1 Bank

Internal

Address: Lee Conner

Street Address: 406 Blackwell Street

City: Durham

State: North Carolina

Country: USA Zip: 27701

- Association Citizenship _____
 General Partnership Citizenship _____
 Limited Partnership Citizenship _____
 Corporation Citizenship North Carolina
 Other _____ Citizenship _____

If assignee is not domiciled in the United States, a domestic representative designation is attached: Yes No
 (Designations must be a separate document from assignment)

4. Application number(s) or registration number(s) and identification or description of the Trademark.

A. Trademark Application No. (s)

B. Trademark Registration No. (s)

3,173,580 as more fully described on Ex C attached hereto

Additional sheet(s) attached? Yes No

C. Identification or Description of Trademark(s) (and Filing Date if Application or Registration Number is unknown):
 Snythesis

5. Name & address of party to whom correspondence concerning document should be mailed:

Name: Square 1 Bank

Internal Address: Lee Conner

Street Address: 406 Blackwell Street, Suite 240

City: Durham

State: North Carolina Zip: 27701

Phone Number: 919-314-3086

Fax Number: 919-354-1278 NEW

Email Address: loandocsdept@square1bank.com

6. Total number of applications and registrations involved:

1

7. Total fee (37 CFR 2.6(b)(6) & 3.41) \$ 40

- Authorized to be charged to deposit account
 Enclosed

8. Payment Information:

Deposit Account Number 50-3822

Authorized User Name Lee Conner

9. Signature:

Lee Conner /TKF
 Signature

6-7-10
 Date

Lee Conner

Name of Person Signing

Total number of pages including cover sheet, attachments, and document: 8

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
 Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

CH \$40.00 503822 3173580

EXHIBIT C
TRADEMARKS

Description	Registration/ Application Number	Registration/ Application Date
Synthesis	3,173,580	11/21/2006

500 400 300 200 100



INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT is entered into as of June 4, 2010 by and between SQUARE 1 BANK ("*Bank*") and ENTESSA, 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, Energy Solutions International, Inc. and Energy Solutions Holdings LP, dated as of February 26, 2010, and joined into by Grantor as a co-borrower thereunder as of the date hereof (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 extend and to continue to extend financial accommodations 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 (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 (collectively, "Intellectual Property Collateral").

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.

SIGNATURE PAGE FOLLOWS



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:

ENTE SSA, INC.

11200 Westheimer Road, Suite 600
Houston, TX 77042

By: Loeffler

Title: CFO

BANK:

Address of Bank:

SQUARE 1 BANK

406 Blackwell Street, Suite 240
Durham, NC 27701
Attn: Loan Documentation Department

By: _____

Title: _____



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:

ENTESSA, INC.

11200 Westheimer Road, Suite 600
Houston, TX 77042

By: _____

Title: _____

BANK:

Address of Bank:

SQUARE 1 BANK

406 Blackwell Street, Suite 240
Durham, NC 27701
Attn: Loan Documentation Department

By: BROOK

Title: SVP

square 1 bank



EXHIBIT A
COPYRIGHTS

Description	Registration Number	Registration Date
NONE		

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EXHIBIT B

PATENTS

Description	Registration OR Serial Number	Registration OR Filing Date
NONE		

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