

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
EFFECTIVE DATE:	08/03/2007						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Srivatsan Sathyamurthy</td><td>08/03/2007</td></tr><tr><td>Tolga Aytug</td><td>07/20/2007</td></tr></tbody></table>		Name	Execution Date	Srivatsan Sathyamurthy	08/03/2007	Tolga Aytug	07/20/2007
Name	Execution Date						
Srivatsan Sathyamurthy	08/03/2007						
Tolga Aytug	07/20/2007						
RECEIVING PARTY DATA							
Name:	University of Tennessee Research Foundation						
Street Address:	1534 White Avenue						
Internal Address:	Suite 403						
City:	Knoxville						
State/Country:	TENNESSEE						
Postal Code:	37996						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11143369</td></tr></tbody></table>		Property Type	Number	Application Number:	11143369		
Property Type	Number						
Application Number:	11143369						
CORRESPONDENCE DATA							
Fax Number:	(865)574-0381						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	(865) 574-4178						
Email:	bowmanke@ornl.gov						
Correspondent Name:	Joseph A. Marasco						
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Address Line 2:	4500N, MS-6258						
Address Line 4:	Oak Ridge, TENNESSEE 37831-6258						
ATTORNEY DOCKET NUMBER:	1461.0						
NAME OF SUBMITTER:	Karen E. Bowman						

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PATENT
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Total Attachments: 5

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PATENT

REEL: 019652 FRAME: 0555

RECORDATION FORM COVER SHEET PATENTS 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)

Srivatsan Sathyamurthy
Tolga Aytug

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Execution Date(s) 08/03/2007

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Univeristy of Tennessee Research Foundation

Internal Address: _____

Street Address: 1534 White Avenue, Suite 403

City: Knoxville

State: Tennessee

Country: USA Zip: 37996

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/143,369

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Joseph A. Marasco

Internal Address: UT-Battelle, LLC

P.O. Box 2008, MS-6258

Street Address: One Bethel Valley Road

City: Oak Ridge

State: Tennessee Zip: 37831-6258

Phone Number: (865) 574-4178

Fax Number: (865) 574-0381

Email Address: marascoja@ornl.gov

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 13-1958

Authorized User Name Joseph A. Marasco

9. Signature:

/Joseph A. Marasco/

Signature

08/06/2007

Date

Joseph A. Marasco, Reg. No. 32798

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

ASSIGNMENT

WHEREAS, we the below-named inventors whose residence and post office are stated below, have invented certain new and useful improvements in;

HEREBY sell, assign and transfer to the University of Tennessee Research Foundation (UTRF), a non-profit corporation of Tennessee having a place of business at 1534 White Avenue, Suite 403, Knoxville, Tennessee 37996, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent which has been executed by the undersigned concurrently herewith, and which is entitled

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and in and to said application and all divisional, continuation, substitute, renewal, reissue, and other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements, including the right to claim in other countries the right of priority of any of said applications under the (Paris) International Convention; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said improvements;

AGREE THAT said Assignee may apply for and receive Letters Patent for said improvements in its own name, and that when requested, without charge to but at the legal expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuation, substitute, renewal, reissue, and all other patent applications on any and all said improvements, execute all rightful oaths, Assignments, Powers of Attorney and other papers, communicate to said Assignee, its successors, assigns and all legal representatives, all facts known to the undersigned relating to said improvements and the history thereof and generally do everything possible which said Assignee, its successors, assigns and legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives;

COVENANT WITH said Assignee, its successors, assigns and legal representatives that no Assignment, grant, mortgage, license or other Agreement affecting the rights and property herein conveyed have been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; and

AUTHORIZE Assignee, its employees, its successors, assigns and all legal representatives to enter in the blank spaces provided below the Serial Number and filing date of the United States Patent Application to which this document applies, when that information becomes known.

Patent Application Serial Number: 11/143,369

Patent Application Filing Date: 06/02/2005

Full name of inventor: Srivatsan Sathyamurthy

Inventor's Signature: *S. Sath* Date: Aug. 3, 2007

Resident: 8651 Eagle Pointe Drive, Knoxville, Tennessee 37931

Post Office Address: 8651 Eagle Pointe Drive, Knoxville, Tennessee 37931

Citizenship: India

State of Tennessee

County of Roane

This 3rd day of August, 2007, before me, a Notary Public in and for the County and State aforesaid, **SRIVATSAN SATHYAMURTHY** appeared before me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as my free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



SEAL

Karen E. Bowman
Notary Public

My Commission Expires: ~~My Commission Expires June 5, 2010~~

Full name of inventor: Tolga Aytug

Inventor's Signature: _____ Date: 7/20/07

Resident: 2204 East Windbrook Road, Knoxville, Tennessee 37923

Post Office Address: 2204 East Windbrook Road, Knoxville, Tennessee 37923

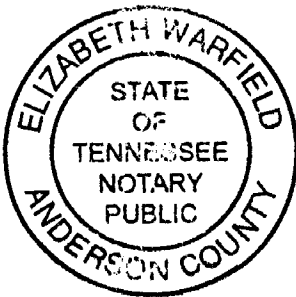
Citizenship: Turkey

State of Tennessee

County of Roane

This 20th day of July, 2007, before me, a Notary Public in and for the County and State aforesaid, **TOLGA AYTUG** appeared before me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as my free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



SEAL

Elizabeth Warfield
Notary Public

My Commission Expires: **MY COMMISSION EXPIRES**
AUGUST 25, 2007