## PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
Srinivas Garimella	02/05/2013
Jared Carpenter Delahanty	01/24/2013
Ananda Krishna Nagavarapu	01/24/2013

#### **RECEIVING PARTY DATA**

Name:	GEORGIA TECH RESEARCH CORPORATION
Street Address:	505 Tenth Street, N.W.
City:	Atlanta
State/Country:	GEORGIA
Postal Code:	30332

#### PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13814792	

## **CORRESPONDENCE DATA**

4049626571 Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER:	011529.112079 GTRC5358	
NAME OF SUBMITTER:	Benjamin C. Wiles	

Total Attachments: 6

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**PATENT** REEL: 029773 FRAME: 0207

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PATENT REEL: 029773 FRAME: 0208

# **ASSIGNMENT**

WHEREAS, we, **Srinivas Garimella**, **Jared Carpenter Delahanty**, and **Ananda Krishna Nagavarapu** (collectively referred to as "ASSIGNOR"), have invented certain improvements in a **VAPOR-LIQUID HEAT AND/OR MASS EXCHANGE DEVICE**, for which a Patent Cooperation Treaty patent application was filed on 10 August 2011 and provided Serial No. PCT/US2011/047304, and for which a U.S. Provisional Patent Application was filed 10 August 2010 and provided Serial No. 61/372,213, and for which future applications may be filed, (collectively referred to as the "Application"), and whereas

#### GEORGIA TECH RESEARCH CORPORATION

505 Tenth Street, N.W. Atlanta, Georgia 30332-0415 United States

("ASSIGNEE") desires to purchase all of ASSIGNOR's rights in same;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said ASSIGNEE, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has and by these presents does hereby sell, assign, transfer and convey unto said ASSIGNEE all of ASSIGNOR's rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, reexam, continued prosecution application ("CPA"), or request for continued examination ("RCE") thereof, and in and to all inventions and improvements thereon (herein collectively referred to as "Related US Applications"), preparatory to obtaining Letters Patent of the United States therefore; and ASSIGNOR hereby requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said Application and Related US Applications, to ASSIGNEE, for its interest and for the sole use and benefit of ASSIGNEE and its assigns and legal representatives.

For the same consideration, ASSIGNOR, by these presents does sell, assign, and transfer to ASSIGNEE all of ASSIGNOR's rights, title and interest in and to any foreign and international applications related to and/or seeking benefit of said Application and Related US Applications, and in and to all inventions and improvements thereon (herein collectively referred to as "Related Foreign Applications"), in and to any Letters Patent and similar protective rights granted on said Related Foreign Applications, and in and to the right to claim any applicable priority rights arising from or required for said Related Foreign Applications under the terms of any applicable conventions, treaties, statutes, or regulations, said Related Foreign Applications to be filed and issued in the name of ASSIGNEE or its designee, insofar as permitted by applicable law.

For the same consideration, ASSIGNOR agrees, without charge to ASSIGNEE, but at ASSIGNEE'S expense, to sign all lawful papers, execute said Application, Related US Applications and Related Foreign Applications, make all assignments and rightful oaths, assist in prosecution of said Application, Related US Applications and Related Foreign Applications, assist in prosecution of legal proceedings, and generally do everything reasonably possible to aid ASSIGNEE its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

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PATENT REEL: 029773 FRAME: 0209 AND, for the same consideration, ASSIGNOR also hereby sells, assigns and transfers unto ASSIGNEE all of ASSIGNOR's rights and claims to sue for damages and other remedies with respect to any and all past infringement of all said Application, Related US Applications, and Related Foreign Applications, including said inventions and improvements which may have occurred before the date of this Assignment.

[Signatures on following pages]

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20264407v1

PATENT

REEL: 029773 FRAME: 0210

IN WITNESS WHEREOF, I have her	reunto set my hand and seal this <b>5</b> that day of
<u>February</u>	
	Svin vi to Janimella (SEAL)
	rinivas Garimella
Witnessed by: 494 Signature	
Staecher, Marcel Printed Name of Witness	
Witnessed by: LL Signature	Date: 2-5=13
Christopier Keines Printed Name of Witness	s :
SECTION BELOW IS FOR USE ONLY IF SI	IGNING IN PRESENCE OF A NOTARY
IN WITNESS WHEREOF, I have here, 2013.	unto set my hand and seal thisday of
	(SEÁL)
State of	rinivas Garimella
County of	
	113, before me, a notary public, came to me known and ho executed the foregoing assignment, and he duly feed.
 N	OTARY PUBLIC
(SEAL) M	Ay Commission Expires:

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GTRC5388 Assignment

IN WITNESS WHEREOF, I have	hereunto set my hand and seal this 24th day of
January , 2013.	
<b>v</b>	(SEAL)
Witnessed by: Witnessed by: Signature	tared Carpenter Delahanty  Date: Jan 24, 2013
Adrienne Little Printed Name of Witness	
Witnessed by:   A M W  Signature  Bria M Frank  Printed Name of Witness	Date: <u>01/24/2013</u>
SECTION BELOW IS FOR USE ONLY II	F SIGNING IN PRESENCE OF A NOTARY
IN WITNESS WHEREOF, I have h	ereunto set my hand and seal this day of
State of	Jared Carpenter Delahanty (SEAL)
County of	
	, 2013, before me, a notary public, came to me known and d who executed the foregoing assignment, and he duly nd deed.
	NOTARY PUBLIC
(SEAL)	My Commission Expires:

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GTRC5358 Assignment

20264407v1

IN WITNESS WHEREOF, I have her	reunto set my hand and seal this 24 day of
January , 2013.	
7	J. Ananda Crism- (SEAL)
A	nanda Krishna Nagavarapu
Witnessed by: Signature	Date: <u>/-24-/3</u>
Susan Ericks Printed Name of Witness	
Witnessed by: Por A. Guate Signature	Date: 1 - 24 - 13
Printed Name of Witness	
SECTION BELOW IS FOR USE ONLY IF SI	GNING IN PRESENCE OF A NOTARY
IN WITNESS WHEREOF, I have heret, 2013.	unto set my hand and seal this day of
	(SEAL)
State of	nanda Krishna Nagavarapu
State of	
County of	
	13, before me, a notary public, came to me known and no executed the foregoing assignment, and he duly eed.
N	OTARY PUBLIC
(SEAL) M	y Commission Expires:

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GTRC5358 Assignment

20264407v1

In Witness Whereof. Assignee hereby accepts from Assignor the sale, assignment, transfer and conveyance unto said Assignee of the full, exclusive and entire right, title, and interest in and to said Application, Related US Applications and Related Poreign Applications, by its duly authorized officer this had you have a supplication of the sale, assignment, transfer and conveyance unto said Assignee of the full, exclusive and entire right, title, and interest in and to said Application, Related US Applications and Related Poreign Applications, by its duly authorized officer this had you have a said and the sale, assignment, transfer and conveyance unto said Assignee of the full, exclusive and entire right, title, and interest in and to said Application, Related US Applications and Related Poreign Applications, by its duly authorized officer this had you have a said and the said and the said and the said applications and the said applications.

	<i>*</i> *	Georgia (Assigne	Tech Research Corporation
		Ву:	Link Comment
		Name:	Kimberly Dunn
		Title:	Authorized Signatory
Witnessed by:	Signature		Date: February 5, 2013
Chris D	tavis	u:	
Printec	Name of Witness	-	
Witnessed by: <u>B</u> , Q	Signature		Date: February 5, 2013
B. Ren	e Osborn		
Printec	Name of Witness	-	

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GTRCS358 Assignment

**RECORDED: 02/07/2013**