12/21/2015 503620744

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3667375

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS J. BRUNSCHWILER	12/16/2015
TIMOTHY J. CHAINER	12/16/2015
EVAN G. COLGAN	12/17/2015
ARVIND RAJ MAHANKALI SRIDHAR	12/17/2015
CHIN LEE ONG	12/17/2015
PRITISH R. PARIDA	12/16/2015
GERD SCHLOTTIG	12/16/2015
MARK D. SCHULTZ	12/16/2015
JOEL A. SILBERMAN	12/16/2015

RECEIVING PARTY DATA

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14976106

CORRESPONDENCE DATA

Fax Number: (845)892-6363

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.

Phone: 914-945-2947

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IBM CORP. - FISHKILL DRAFTING CENTER **Correspondent Name:**

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Address Line 2: 39-257

Address Line 4: SOMERS, NEW YORK 10589

ATTORNEY DOCKET NUMBER:	YOR920150392US1
NAME OF SUBMITTER:	L. JEFFREY KELLY

PAIENI **REEL: 037339 FRAME: 0133** 503620744

SIGNATURE:	/L. Jeffrey Kelly/
DATE SIGNED:	12/21/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 18	
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PATENT REEL: 037339 FRAME: 0134

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: COUNTER-FLOW EXPANDING CHANNELS FOR ENHANCED TWO-PHASE HEAT REMOVAL

As a below named and undersigned inventor, I hereby declare that:
This declaration is directed to the attached application, or (if following box is checked):
[] United States application or PCT international application number
The above-identified application was made or authorized to be made by me.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
I have reviewed and understand the contents of the application, including the claims.
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefore in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor; Thomas J. Brunschwiler

Signature: 1, J. J. J.	Date: Den. 16t 2015
(2) Legal Name of Inventor: Timothy J. Chainer	
Signature:	Date:
(3) Legal Name of Inventor: Evan G. Colgan	
Signature:	Date:
(4) Legal Name of Inventor: Arvind Raj Mahankali Sridhar	
Signature:	Date:
(5) Legal Name of Inventor: Chin Lee Ong	
Sionature:	Data

(6) Legal Name of Inventor: Pritish R. Parida	
Signature:	Date:
(7) Legal Name of Inventor: Gerd Schlottig	
Signature: 5.4	Date: Dec. 16, 2015
(8) Legal Name of Inventor: Mark D. Schultz	
Signature:	Date:
(9) Legal Name of Inventor: Joel A. Silberman	
Signature: Joel Na Silh	Date: Drc 16, 2015

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Signature: LM Chaires	Date:
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Signature:	Date: 12/16/2015
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Signature:	·	Date:
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Signature:	I Then	Date: [2/17/15
(4) Legal Name of Inventor: <i>i</i>	Arvind Raj Mahankali Sridhar	
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(5) Legal Name of Inventor: (Chin Lee Ong	
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Signature:	Date: 17 /12 (2015
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Signature:	Date:

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	Signature:	74	Date:
(7)	Legal Name of Inventor: Gerd Schlottig	. 1.	
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Signature:	Date:
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Page 2 of 3

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(3) Legal Name of Inventor: Evan G. Colgan	
Signature:	Date:
(4) Legal Name of Inventor: Arvind Raj Mahankali Sridhar	
Signature:	Date:
(5) Legal Name of Inventor: Chin Lee Ong	
Signature:	Date:

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(6)	Legal Name of Inventor: Pritish R. Parida	
	Signature:	Date:
(7)	Legal Name of Inventor: Gerd Schlottig	
	Signature:	Date:
(8)	Legal Name of Inventor: Mark D. Schultz	
	Signature	Date: 12/16/2015
(9)	Legal Name of Inventor: Joel A. Silberman	
	Signature:	Date: