PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KANGGUO CHENG	10/23/2015
POUYA HASHEMI	10/22/2015
ALEXANDER REZNICEK	10/23/2015
DOMINIC J. SCHEPIS	10/23/2015

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:	14924162

CORRESPONDENCE DATA

Fax Number: (516)742-4366

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: 516-742-4343

Email: chudson@ssmp.com

SCULLY, SCOTT, MURPHY & PRESSER, P.C. **Correspondent Name:**

400 GARDEN CITY PLAZA Address Line 1:

Address Line 2: SUITE 300

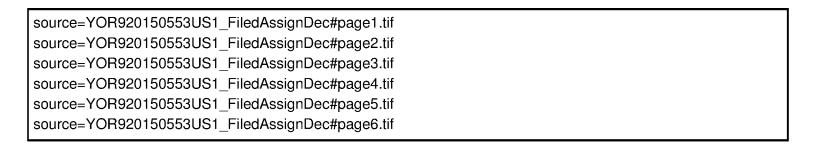
Address Line 4: GARDEN CITY, NEW YORK 11530

ATTORNEY DOCKET NUMBER:	YOR920150553US1 (32235)
NAME OF SUBMITTER:	LESLIE S. SZIVOS
SIGNATURE:	/Leslie S. Szivos/
DATE SIGNED:	10/27/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 6

PATENT REEL: 036894 FRAME: 0301

503542094



PATENT REEL: 036894 FRAME: 0302

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: FIN CUT WITHOUT RESIDUAL FIN DEFECTS

Page 1 of 2

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.

IBM DOCKET NUMBER: YOR920150553US1

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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: Kangguo Cheng	
Signature:	Date: 10/23/2015
(2) Legal Name of Inventor: Pouya Hashemi	
Signature:	Date:
(3) Legal Name of Inventor: Alexander Reznicek	
Signature: Ples and A	Date: Oct 23, 2018
(4) Legal Name of Inventor: Dominic J. Schepis	
Signature:	Date

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: FIN CUT WITHOUT RESIDUAL FIN DEFECTS

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 C.F.R. § 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 therefor 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 all such

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,

patents may be granted, as fully and entirely as would have been held and enjoyed by me had this

whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

IBM DOCKET NUMBER: YOR920150553US1

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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: Kangguo Cheng	
Signature:	Date:
(2) Legal Name of Inventor: Pouya Hashemi	
Signature: Paya fashem Phinty	Date: 10/22/2014
(3) Legal Name of Inventor: Alexander Reznicek	
Signature:	Date:
(4) Legal Name of Inventor: Dominic J. Schepis	
Signature:	Date:

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

Title of Invention: FIN CUT WITHOUT RESIDUAL FIN WEECTS

As a below named and undersigned inventor, I hereby deck or that:
This declaration is directed to the attached application, or O 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 oventor 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 Pater (and Trademark Office all information known to me to be material to patentability as defined in 3.1 (L.F.R. § 1.56.

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

Whereas, International Business Machines Corporation the am referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Arn ank, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide eight, title, and interest in and to the Invention and in and to any and all patent applications and patents director thereto; Now, therefore, for good and valuable consideration, the remotion and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have accurated, 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-in-affiled United States patent application, and any and all other patent applications and patents for the invection which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensic a 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 Daire for of the United States Patent and Trademark Office to issue any United States Patent, and for their 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 c be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full ended 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 rate of 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 topresentatives, or assigns.

Page 1 of 3

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(1) Legal Name of Inventor: Kanggao Cheng	
Signature:	Date:
(2) Legal Name of Inventor: Pouya Hashemi	
Signature:	Date:
(3) Legal Name of Inventor: Alexander Reznicek	
Signature:	Date:
(4) Legal Name of Inventor: Dominic J. Schepis	
Signature: Lornine Schepis	Date: 10/23/15

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PATENT REEL: 036894 FRAME: 0308

RECORDED: 10/27/2015