504627255 11/03/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4673973 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEPHEN S. LIN	06/23/2011
XIN TONG	06/23/2011
XUN CAO	06/27/2011

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC	
Street Address:	ONE MICROSOFT WAY	
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15378943

CORRESPONDENCE DATA

Fax Number:

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.

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Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER. P.A.

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ATTORNEY DOCKET NUMBER: 333053US-DIV(1777.286US2)

NAME OF SUBMITTER: ROWENA J ARTHURS

SIGNATURE: /Rowena J Arthurs/

DATE SIGNED: 11/03/2017

Total Attachments: 5

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PATENT 504627255 REEL: 044032 FRAME: 0971

RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 333053-US-DIV (1777.286US2) Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Microsoft Technology Licensing, LLC Stephen S. Lin, Xin Tong, Xun Cao Street Address: One Microsoft Way Additional name(s) of conveying party(ies) attached? City: Redmond State: WA Zip Country: United States of America Zip: 98052 []Yes [X]No 3. Nature of conveyance: Additional name(s) & address(es) attached? [[Yes IXINo [X] Assignment | | Merger [] Security Agreement[] Change of Name [] Other Execution Date: June 23, 2011, June 23, 2011, June 27, 2011 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 15/378,943 Filed: December 14, 2016 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Troy D. Smith [[Enclosed [Authorized to be charged to deposit account Address: 19-0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, Minnesota 55402--0938 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Trov D. Smith/Reg. No. 62,349 Name of Person Signing Total number of pages including cover sheet: 5 Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450

Alexandria, VA 22313-1450

PATENT REEL: 044032 FRAME: 0972 PATENT ASSIGNMENT MS Docket No.: 333053,02
Altorney Docket No.: MS1-5166US

I/WE, Stephen S. Lin, Xin Tong, and Xun Cao, ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "HIGH RESOLUTION MULTISPECTRAL IMAGE CAPTURE" ("APPLICATION"), which:

\square	will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR
	hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the
	Law and Corporate Affairs Department, Microsoft Corporation, One
	Microsoft Way, Redmond, Washington 98052, who are associated with
	customer number 22801, to insert here in parenthesis (Application No.
	Application No. and filing date, when known;
	was filed on and was given Application No;
	is filed concurrently herewith:

Microsoft Corporation, a Washington Corporation, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")):

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES):

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

Inventor's Signature Stephen S. Lin	4/25/2011 Date
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 333053.02

Attorney Docket No.: MS1-5166US

	6/23/2011
Inventor's Signature	Date
Xin Tong	
Printed Name in English	Printed Name in Native Language (if other than English)
numetaria Cianatana	Date
nventor's Signature Kun Cao	Date

PATENT ASSIGNMENT	MS	Docket	No.:	<u>333053.02</u>
Atto	orney	Docket	No.:	MS1-5166US

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	customer number 22801, to insert here in parenthesis (Application No.
	<u>13/202,048</u> , filed <u>August 17, 2011</u>) this APPLICATION's
	Application No. and filing date, when known;
	was filed on and was given Application No;
	is filed concurrently herewith;

RESOLUTION MULTISPECTRAL IMAGE CAPTURE" ("APPLICATION"), which:

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Inventor's Signature	Date
Stephen S. Lin	
Printed Name in English	Printed Name in Native Language (if
	other than English)

PATENT ASSIGNMENT MS Docket No.: 333053.02

Attorney Docket No.: MS1-5166US

Inventor's Signature	Date
Xin Tong	
Printed Name in English	Printed Name in Native Language (if
•	other than English)

Calle	6/27/2011
Inventor's Signature	Date
Xun Cao	曹汛
Printed Name in English	Printed Name in Native Language (if other than English)