503393976 07/15/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MIHAIL GAVRIL TARTA	06/25/2015
GOPAL KAKIVAYA	06/25/2015
PREETHA LAKSHIMI SUBBARAYALU	06/25/2015

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:	14752603

CORRESPONDENCE DATA

Fax Number: (816)421-5547

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: 816-474-6550

Email: opertsovsky@shb.com

Correspondent Name: SHOOK, HARDY & BACON L.L.P.

Address Line 1: 2555 GRAND BOULEVARD

Address Line 4: KANSAS CITY, MISSOURI 64108

ATTORNEY DOCKET NUMBER:	357153.02/MFCP.229555
NAME OF SUBMITTER:	GEORGE-LEONARD N. NGENGWE
SIGNATURE:	/George-Leonard N. Ngengwe/
DATE SIGNED:	07/15/2015

Total Attachments: 6

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PATENT REEL: 036100 FRAME: 0037

PATENT ASSIGNMENT

	sed and/or claimed in	inal joint inventor of subject a patent application entitled PPLICATION"), which:		
ASSIGNEE'S lega 2555 Grand B associated with REPRESENTATIVE on 6/26/20 No. 14/752,603 Patent and Trad	ASSIGNOR hereby au legresentatives, of Shool lvd., Kansas City, Miss Customer Number 458 (S), to insert here is 215 and and by the following Office, when known:	c, Hardy & Bacon L.L.P., ouri 64108, who are 09 (ASSIGNEE'S LEGAL n parentheses (filed given Application lice US - United States		
No	and was given by the following Offic ":			
Microsoft Technology Licensing, LLC, a Washington limited liability company, 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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));				
·	the Application No., filin	uests, ASSIGNEE'S LEGALing date, and Office into the heviare known:		
Application No.	Filing Date	Offlice		

Page 1 of 2

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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, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("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).

Care	6/25/2015
Inventor's Signature	Date
Mihail Gavril Tarta Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

	§ ,	<u>Gopa</u>	<u> </u>	<u>kivay</u>	<u>(a</u> (°	'ASSIC	NOR"),	, am	an	origina	ıl joint	inven	itor of	subject	matter
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ಟಯಿತ	will be filed. ADMUNOK hereby authorizes and requests
	ASSIGNEE'S legal representatives, of Shook, Hardy & Bacon L.L.P.
	2555 Grand Blvd., Kansas City, Missouri 64108, who are
	associated with Customer Number 45809 (ASSIGNEE'S LEGAL
	REPRESENTATIVES), to insert here in parentheses (filed
	on 6/26/2015 and given Application
	No. 14/752,603 by the following Office US - United States
	Patent and Trademark Office) this APPLICATION's Application No.
	filing date, and Office, when known;
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لسا	was filed on and was given Application
	Noby the following Office
	N %

Microsoft Technology Licensing, LLC, a Washington limited liability company, 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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")):

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office

Page 1 of 2

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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, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("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).

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Inventor's Sig na ture	Oate
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

	disclosed and/or claimed	n an original joint inventor of in a patent application entitled PPLICATION"), which:
ASSIGNEE'S legal 2555 Grand 8l associated with REPRESENTATIVES on 6/26/20 No. 14/752,603 Patent and Trade	<u> </u>	c, Hardy & Bacon L.L.P., Duri 64108, who are O9 (ASSIGNEE'S LEGAL In parentheses (filed Given Application Ice US – United States
	and was given by the following Office ;	
Microsoft Technology Libehalf of itself and its succe desirous of acquiring, the entiright of priority, in the INVENTIPATENTS derived therefrom, sucfor the United States, its DERIVATIVES"));	ssors and assigns ("ASSI re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	tle and interest, including the (and all other applications and us, in whole or in part, in and
ASSIGNOR hereby REPRESENTATIVES to insert to following table for any APPLICA	he Application No., filin	
Application No.	Filing Date	Office

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so Resta	06/25/2015
Inventor's Signature	Date
Preetha Lakshmi Subbarayalu Printed Name in English	Printed Name in Native Language (if other than English)

RECORDED: 07/15/2015