504144905 12/14/2016

EPAS ID: PAT4184751

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MALLIK BULUSU	12/12/2016
BRYAN KELLY	12/14/2016
TOM LONG NGUYEN	12/12/2016

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:	15378406			

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.

Phone: 425-707-9382

Email: usdocket@microsoft.com

Correspondent Name: MICROSOFT CORPORATION

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Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER: 400269-US-NP

NAME OF SUBMITTER: JOHN OGILVIE

SIGNATURE: /John Ogilvie/

DATE SIGNED: 12/14/2016

Total Attachments: 6

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PATENT 504144905 REEL: 040732 FRAME: 0533

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PATENT REEL: 040732 FRAME: 0534

which:				
	×	ASSIGNEE'S legal LLC., One M (ASSIGNEE'S L parentheses (file No.	al representative, Mic licrosoft Way, Red EGAL REPRESENTATI ed on	authorizes, and requests, rosoft Technology Licensing, mond, Washington 98052 IVES), to insert here in and given Application by the following Office, when
		was filed on the following Of		n Application No by
				hington limited liability company, on
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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).

R Males.	12/12/16
Inventor's Signature	Date
Mallik BULUSU	
Printed Name in English	Printed Name in Native Language
	(if other than English)

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X	will be filed. ASSIGNOR hereby authorizes, and requests
	ASSIGNEE'S legal representative, Microsoft Technology Licensing,
	LLC., One Microsoft Way, Redmond, Washington 98052
	(ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on and given Application
	No by the following Office
) this APPLICATION's Application No., filing date, and Office, wher known;
_	was filed on and was given Application No by the following Office "";

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.	 	Office
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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

Page 1 of 2

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).

Zan L	12-14-16
Inventor's Signature	Date
Bryan KELLY	
Printed Name in English	Printed Name in Native Language
	(if other than English)
	(II Other than English)

inventor of	subject matter ('INVENTION") disclosed	al inventor or an original joint and/or claimed in a patent DLATILE RAM" ("APPLICATION"),
⊠	ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEG parentheses (filed No.	ASSIGNOR hereby authorepresentative, Microsoft rosoft Way, Redmond AL REPRESENTATIVES), on by the body of the body	Technology Licensing, , Washington 98052 to insert here in , and given Application by the following Office
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behalf of it desirous of right of prio patents deri for the Ur DERIVATIVE	self and its succe acquiring, the enti- rity, in the INVENTI ved therefrom, suc- nited States, its to S"));	ssors and assigns ("ASSI re and exclusive rights, t ON and the APPLICATION h as continuing application territories, and all fore	on limited liability company, on IGNEE"), is entitled to, and is itle and interest, including the (and all other applications and ons, in whole or in part, in and eign countries ("APPLICATION puests, ASSIGNEE'S LEGAL
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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"));

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	12/12/16
Inventor's Signature	Date
Tom Long NGUYEN	
Printed Name in English	Printed Name in Native Language
	(if other than English)