504268030 03/11/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SARA ROUELLE JOINER	12/30/2016
JASKARAN SINGH	12/31/2016

RECEIVING PARTY DATA

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Street Address:	ONE MICROSOFT WAY	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15396018

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ATTORNEY DOCKET NUMBER:	14917.3083US01/401059USNP	
NAME OF SUBMITTER:	CHRISTOPHER J. LEONARD	
SIGNATURE:	/Christopher J. Leonard/	
DATE SIGNED:	03/11/2017	

Total Attachments: 4

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PATENT 504268030 REEL: 041549 FRAME: 0064

PATENT ASSIGNMENT

inventor of application	subject matter	("INVENTION") disclosed 'MOST-RELEVANT-FIRST	al inventor or an original joint and/or claimed in a patent CALENDAR EVENT
	ASSIGNEE'S legal LLC, One Microso LEGAL REPRESENT December 30, 2016 the following Of	ASSIGNOR hereby auth representative, Microsoft of Way, Redmond, Washing TATIVES), to insert here in and given Application of the US – United States CATION's Application No.,	Technology Licensing, gton 98052 (ASSIGNEE'S n parentheses (filed on No. <u>15/396,018</u> by Patent and Trademark
		and was given Office " <u>United States Paten</u>	
behalf of its desirous of a right of prior patents deriv	self and its succe acquiring, the enti ity, in the INVENTI yed therefrom, suc ted States, its	ssors and assigns ("ASSIO re and exclusive rights, ti ON and the APPLICATION th as continuing applicatio	n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ns, in whole or in part, in and gn countries ("APPLICATION
	TIVES to insert t	-	uests, ASSIGNEE'S LEGAL g date, and Office into the
Application N		Filing Date	Office

Page 1 of 2

PATENT ASSIGNMENT

	, and the second se

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).

Inventor's Signature Sara Rouelle Joiner	12/30/2016 Date
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

inventor of subject matter	("INVENTION") disclosed "MOST-RELEVANT-FIRST	inventor or an original joint and/or claimed in a patent CALENDAR EVENT	
ASSIGNEE'S legal LLC, One Microso LEGAL REPRESEN the following O	ASSIGNOR hereby authorepresentative, Microsoft of Way, Redmond, Washing TATIVES), to insert here in and given Application ffice US – United States CATION's Application No.	Technology Licensing, gton 98052 (ASSIGNEE'S n parentheses (filed on No by Patent and Trademark	
	ember 30, 2016 and was g ne following Office " <u>United</u> ";		
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	

PATENT ASSIGNMENT

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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Jacker Inventor's Signature	1 431/16 Date
Jaskaran Singh Printed Name in English	Printed Name in Native Language
Timed Name in English	Printed Name in Native Language (if other than English)