505228047 12/10/2018

EPAS ID: PAT5274816

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
ANAND RAMAGOPALRAO	08/28/2017
SAGAR JAGDISH HOTCHANDANI	11/06/2018
RAVI KANT PANDEY	08/28/2017
CHRISTOPHER ADAM BROOKS	08/24/2017

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:	15256092

CORRESPONDENCE DATA

Fax Number: (801)532-7543

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: 8015321500

Email: mspatent@rqn.com, usdocket@microsoft.com
Correspondent Name: RAY QUINNEY & NEBEKER-MICROSOFT

Address Line 1: 36 SOUTH STATE STREET

Address Line 2: SUITE 1400

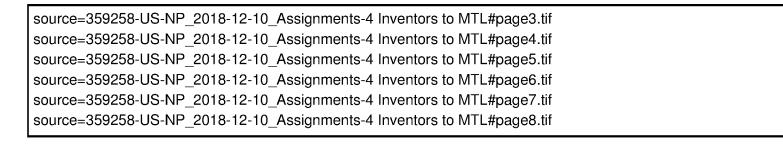
Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	359258-US-NP
NAME OF SUBMITTER:	PAUL N. TAYLOR
SIGNATURE:	/Paul N. Taylor, Reg.# 57271/
DATE SIGNED:	12/10/2018

Total Attachments: 8

source=359258-US-NP_2018-12-10_Assignments-4 Inventors to MTL#page1.tif source=359258-US-NP_2018-12-10_Assignments-4 Inventors to MTL#page2.tif

PATENT 505228047 REEL: 047728 FRAME: 0401



PATENT REEL: 047728 FRAME: 0402 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")):**

hereby authorizes. ASSIGNOR 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

PATENT REEL: 047728 FRAME: 0403

MS Docket No.: 3592258.01

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).

,		
	Daniel	8/28/17
	Inventor's Signature	Date
***************************************	Anand RAMAGOPALRAO	
	Printed Name in English	Printed Name in Native Language
	-	(if other than English)

MS Docket No.: 359258-US-NP

PATENT ASSIGNMENT

original ioint i	nventor of subject entitled " <u>RESTFU</u>	matter ("INVENTION")	NOR") am the original inventor or disclosed and/or claimed in a pate of the second of	ent
	legal representative Way, Redmond, REPRESENTATIVE on following Office	e, Microsoft Technology Washington 980 ES), to insert he and given Applical	es, and requests, ASSIGNEE'S y Licensing, LLC, One Microsoft 052 (ASSIGNEE'S LEGAL ere in parentheses (filed tion No by the) this APPLICATION'S en known;	
Ø		nber 2, 2016 and was g ollowing Office " <u>United</u>	given Application No States Patent and Trademark	
of itself and acquiring, the INVENTION a such as conti	its successors and entire and exclusive and the APPLICATION nuing applications, i	l assigns ("ASSIGNEE e rights, title and intere ON (and all other appli	gton limited liability company, on be E"), is entitled to, and is desirous est, including the right of priority, in ications and patents derived therefrand for the United States, its territor "));	the om,
REPRESENT	ATIVES to insert the		requests, ASSIGNEE'S LEC date, and Office into the following to wn:	
Application N		Filing Date	Office	

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"));

MS Docket No.: 359258-US-NP

PATENT ASSIGNMENT

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).

11/06/201. Inventore-Signature Date

Sagar Jagdish HOTCHANDANI

Printed Name in English

Printed Name in Native Language (if other than English)

Page	1	of	2
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PATENT ASSIGNMENT

MS Docket No.: 359228.01

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).

Kari Kar Pandel	/
Inventor's Signature	Date 28-8-297
Ravi Kant PANDEY	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 359258.01

I, <u>Chr</u>	<u>istopher Adam BR</u>	<u>OOKS,</u> ("ASSIGNOR") am th	e original inventor or an
original joint	inventor of subject	t matter ("INVENTION") di	sclosed and/or claimed in a
		STFUL INTERFACE SYSTEM	FOR AN APPLICATION "
("APPLICATIC	N"), which:		
	will be filed.	ASSIGNOR hereby auth	orizes, and requests,
	ASSIGNEE'S legal	representative, Microsoft	Technology Licensing,
	LLC, One Microso	ft Way, Redmond, Washing	gton 98052 (ASSIGNEE'S
	LEGAL REPRESEN	TATIVES), to insert here	in parentheses (filed
	on	and	given Application
	No	by	the following
	Office) this APPLICATION'S
	Application No., f	iling date, and Office, whe	n known;
	61		
		ember 2, 2016 and was giv	
	•	the following Office " <u>US-I</u>	<u>United States Patent</u>
	and Trademark O	<u>ffice</u> ";	
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			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
			ign countries ("APPLICATION
DERIVATIVES			ight countries (747 Electricate
ASSIGI	NOR hereby	authorizes, and requ	uests, ASSIGNEE'S LEGAL
REPRESENTA	TIVES to insert t	he Application No., filin	g date, and Office into the
following tab	le for any APPLICA	TION DERIVATIVES after the	ney are known;
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Page 1 of 2

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).

All Pres	<u> </u>
Inventor's Signature	Date
Christopher Adam BROOKS	
Printed Name in English	Printed Name in Native Language
	(if other than English)