### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4435566

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHRISTIAN KLEIN	06/30/2016
GYANCARLO GARCIA AVILA	07/01/2016
CALLIL R. CAPUOZZO	07/29/2016

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Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15199712

#### CORRESPONDENCE DATA

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MICROSOFT CORPORATION **Correspondent Name:** 

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Address Line 4: **REDMOND, WASHINGTON 98052** 

ATTORNEY DOCKET NUMBER:	360316-US-NP
NAME OF SUBMITTER:	BARRY D. BLOUNT
SIGNATURE:	/Barry D. Blount, Reg. #35,069/
DATE SIGNED:	05/30/2017

#### **Total Attachments: 6**

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> **PATENT** REEL: 042531 FRAME: 0665 504388869

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PATENT REEL: 042531 FRAME: 0666

### PATENT ASSIGNMENT

of subject ma	atter ("INVENTION")		or or an original joint inventorn a patent application entitled
	ASSIGNEE'S legal r LLC, One Microsoft LEGAL REPRESENT on the following Of	ASSIGNOR hereby authorepresentative, Microsoft Way, Redmond, Washingt ATIVES), to insert here and given Application ffice blication No., filing date, and given and given are the polication of the polication of the polication of the polication No., filing date, and given are the polication No., filing date, and given No., filin	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed Noby) this
		<u>0, 2016</u> and was given Ap following Office " <u>United S</u>	
behalf of itse of acquiring priority, in the derived there	elf and its successors, the entire and exc ne INVENTION and the efrom, such as cont	s and assigns ("ASSIGNEE"), clusive rights, title and in he APPLICATION (and all o cinuing applications, in wh	limited liability company, on, is entitled to, and is desirous terest, including the right of ther applications and patents tole or in part, in and for the PLICATION DERIVATIVES"));
	•	• •	EE'S LEGAL REPRESENTATIVES  the following table for any
		they are known;	the following table for any
Application	No.	Filing Date	Office
1			

Docket No.:360316-US-NP

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).

artin 1400	6-30-16	
Inventor's Signature	Date	
Christian Klein		
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

# PATENT ASSIGNMENT

PA	TENT ASSIGNMENT	Docket No.:360316-US-NP
inventor of subject m	atter ("INVENTION") disc	e original inventor or an original joint losed and/or claimed in a patent <u>Reversal Operations</u> " ("APPLICATION"),
ASSIGNEE': LLC, One M LEGAL RE on the follow	S legal representative, Mi Microsoft Way, Redmond, V PRESENTATIVES), to inser and given App wing Office	vauthorizes, and requests, crosoft Technology Licensing, Vashington 98052 (ASSIGNEE'S there in parentheses (filed blication Noby by this date, and Office, when known;
	on <u>June 30, 2016</u> and was <u>o</u> <u>2</u> by the following Office " <u>c Office</u> ";	
behalf of itself and its su of acquiring, the entire priority, in the INVENTIC derived therefrom, such United States, its territo	and exclusive rights, title and exclusive rights, title on and the APPLICATION (and the APPLICATION) are continuing application ries, and all foreign countr	chington limited liability company, on GIGNEE"), is entitled to, and is desirous and interest, including the right of all other applications and patents is, in whole or in part, in and for the ies ("APPLICATION DERIVATIVES"));
•	• • •	ASSIGNEE'S LEGAL REPRESENTATIVES fice into the following table for any
· ·	/ES after they are known;	
Application No.	Filing Date	Office

PATENT ASSIGNMENT Docket No.: 360316-US-NP

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	フリー 1 - マロ16 Date	
Gyancarlo Garcia Avila	-	
Printed Name in English	Printed Name in Native Language (if other than English)	

# PATENT ASSIGNMENT

inventor of	subject matter ("l	INVENTION") disclosed a	inventor or an original joint nd/or claimed in a patent <u>Operations</u> " ("APPLICATION"),
	ASSIGNEE'S legal r LLC, One Microsoft LEGAL REPRESENT on the following Of	ASSIGNOR hereby authorepresentative, Microsoft Way, Redmond, Washingt ATIVES), to insert here and given Application office and Siven Application of the polication of th	Technology Licensing, son 98052 (ASSIGNEE'S in parentheses (filed No by) this
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behalf of itse of acquiring, priority, in the derived there	elf and its successors, the entire and exc ne INVENTION and the efrom, such as cont	s and assigns ("ASSIGNEE"), clusive rights, title and in he APPLICATION (and all o cinuing applications, in wh	limited liability company, on is entitled to, and is desirous terest, including the right of ther applications and patents lole or in part, in and for the PLICATION DERIVATIVES"));
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Page 1 of 2

Docket No.:360316-US-NP

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Inventor's Signature

Callil R. Capuozzo

Printed Name in English (if other than English)

Date 7/29/16

Printed Name in Native Language