504628608 11/06/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ELIO DAMAGGIO	08/30/2017
CHIPALO STREET	08/28/2017
EUSTACE NGWA ASANGHANWA	10/11/2017
ANGELO RONCALLI DE NOVAES PIRES RIBEIRO	07/31/2017
DAMON LUKE BARRY	07/31/2017
ARJMAND SAMUEL	08/08/2017
MICHAEL R. YAGLEY	07/28/2017

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:	15639375

CORRESPONDENCE DATA

Fax Number: (425)633-2422

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.

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Email: docketing@chin-ip.com

Correspondent Name: MICROSOFT CORPORATION

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Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	402757-US-NP
NAME OF SUBMITTER:	DAVIN CHIN
SIGNATURE:	/Davin Chin/
DATE SIGNED:	11/06/2017

PATENT 504628608 REEL: 044040 FRAME: 0103

Total Attachments: 14 source=402757-US-NP-Assignments#page1.tif source=402757-US-NP-Assignments#page2.tif source=402757-US-NP-Assignments#page3.tif source=402757-US-NP-Assignments#page4.tif source=402757-US-NP-Assignments#page5.tif source=402757-US-NP-Assignments#page6.tif source=402757-US-NP-Assignments#page7.tif source=402757-US-NP-Assignments#page8.tif source=402757-US-NP-Assignments#page9.tif source=402757-US-NP-Assignments#page10.tif source=402757-US-NP-Assignments#page11.tif source=402757-US-NP-Assignments#page12.tif source=402757-US-NP-Assignments#page13.tif source=402757-US-NP-Assignments#page13.tif source=402757-US-NP-Assignments#page14.tif

PATENT REEL: 044040 FRAME: 0104

PATENT ASSIGNMENT MS Docket No.: 402757-US-NP

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inventor of subject matter application entitled "MODL SERVICE" ("APPLICATION"), wi	· ("INVENTION") disc JLAR APPLICATIONS hich:	original inventor or an original jo closed and/or claimed in a pat USING A COMMON PROVISIONI	ent
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		given Application No " <u>U.S. Patent and Trademark</u>	
behalf of itself and its success of acquiring, the entire and priority, in the INVENTION ar derived therefrom, such as of United States, its territories,	sors and assigns ("AS exclusive rights, titl ad the APPLICATION (continuing application and all foreign count	shington limited liability company, SIGNEE"), is entitled to, and is desired and interest, including the right and all other applications and patens, in whole or in part, in and for ries ("APPLICATION DERIVATIVES"));	ous nts the
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MS Docket No.: 402757-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"));

Sh Dr	8/30/2017
Inventor's Signature	Date
Elio DAMAGGIO	
Printed Name in English	Printed Name in Native Language (if other than English)

	PATENT A	SSIGNMENT M	S Docket No.: <u>402757-US-NP</u>
inventor of application	subject matter ('INVENTION") disclosed a R APPLICATIONS USING	inventor or an original joint ind/or claimed in a patent <u>A COMMON PROVISIONING</u>
	ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESENT on the following C	ASSIGNOR hereby authorepresentative, Microsoft It Way, Redmond, Washing TATIVES), to insert here and given Application office plication No., filing date, and	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed No
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Application		Filing Date	Office

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MS Docket No.: <u>402757-US-NP</u>

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"));

Chipals St	8/28/17
Inventor's Signature	Date
Chipalo STREET	
Printed Name in English	Printed Name in Native Language (if other than English)

	PATENT A	SSIGNMENT	MS Docket No.: 402757-US	<u> 3-NP</u>
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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"));

Pare	10/11/2017
Inventor's Signature	Date
Eustace Ngwa ASANGHANWA	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I <u>Angelo Roncalli De Nov</u> or an original joint inventor of s a patent application entitled " <u>MC</u> <u>SERVICE</u> " ("APPLICATION"), which	ubject matter ("INVENTION DDULAR APPLICATIONS USI	
\square will be filed.	ASSIGNOR hereby author	orizes, and requests,
ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESEN ^T on the following C	representative, Microsoft It Way, Redmond, Washing FATIVES), to insert here and given Application	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed Noby
	30, 2017 and was given Ap e following Office " <u>U.S. Pat</u>	
Microsoft Technology Lice behalf of itself and its successor of acquiring, the entire and expriority, in the INVENTION and to derived therefrom, such as confunited States, its territories, and	s and assigns ("ASSIGNEE") clusive rights, title and ir the APPLICATION (and all c tinuing applications, in wh	nterest, including the right of other applications and patents nole or in part, in and for the
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to insert the Application No., 1	-	o the following table for any
APPLICATION DERIVATIVES after		
Application No.	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"));

Inventor's Signature	07/31/17 Date
Angelo Roncalli De Novaes Pires RIBEIRO	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

PA	TENT ASSIGNMENT	MS Docket No.: <u>402757-US-NP</u>
inventor of subject m	natter ("INVENTION") dis MODULAR APPLICATIONS	e original inventor or an original joint closed and/or claimed in a patent USING A COMMON PROVISIONING
LLC, One I LEGAL RE on the follow APPLICATI	S legal representative, M Microsoft Way, Redmond, PRESENTATIVES), to inse and given Ap wing Office ON's Application No., filin	ng date, and Office, when known;
	on <u>June 30, 2017</u> and was 7 <u>5</u> by the following Office	given Application No "U.S. Patent and Trademark
behalf of itself and its su of acquiring, the entire priority, in the INVENTIO derived therefrom, such United States, its territo ASSIGNOR hereby to insert the Applicatio	and exclusive rights, tite and exclusive rights, tite on and the APPLICATION as continuing application ries, and all foreign country authorizes, and requests	ashington limited liability company, or SSIGNEE"), is entitled to, and is desirous the and interest, including the right of (and all other applications and patents ons, in whole or in part, in and for the tries ("APPLICATION DERIVATIVES")); s, ASSIGNEE'S LEGAL REPRESENTATIVES Office into the following table for any
Application No.	Filing Date	Office

MS Docket No.: <u>402757-US-NP</u>

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"));

Inventor's Signature	7/31/2017 Date
Damon Luke BARRY	•
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT A	SSIGNMENT M:	S Docket No.: <u>402757-US-NP</u>
inventor of application	subject matter ("	INVENTION") disclosed a R_APPLICATIONS USING	inventor or an original joint ind/or claimed in a patent A COMMON PROVISIONINC
	ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESENT on the following O	ASSIGNOR hereby authorepresentative, Microsoft tway, Redmond, Washing ATIVES), to insert here and given Application ffice plication No., filing date, a	Technology Licensing, ton 98052 (ASSIGNEE'S in parentheses (filed No
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Application		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"));

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).

aymand	98/17.
Inventor's Signature	Date
Arjmand SAMUEL	
Printed Name in English	Printed Name in Native Language (if other than English)

MS Docket No.: 402757-US-NP

	PATENT	ASSIGNMENT	MS Docket No.: 402	757-US-NP
inventor of application	subject matter	("INVENTION") discl AR APPLICATIONS	original inventor or an o osed and/or claimed in USING A COMMON PR	n a patent
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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;

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PATENT ASSIGNMENT

MS Docket No.: 402757-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"));

Med R Sup	7/28/2017
Inventor's Signature	Date
Michael R. YAGLEY	
Printed Name in English	Printed Name in Native Language (if other than English)