505824537 12/17/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREY KARPOVSKY	03/17/2019
RON MATCHORO	03/17/2019
HAIM SAADIA BEN DANAN	12/17/2019
YOTAM LIVNY	03/17/2019
NAAMA KRAUS	03/17/2019
ROY LEVIN	03/17/2019
TAMER SALMAN	03/17/2019

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC	
Street Address:	SS: ONE MICROSOFT WAY	
City:	REDMOND	
State/Country: WASHINGTON		
Postal Code: 98052		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16351962

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:	612-373-6900
Email:	usdocket@microsoft.com
Correspondent Name:	SCHWEGMAN LUNDBERG & WOESSNER, P.A.
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Address Line 4:	MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	405976-US-NP (1777.C46US1	
NAME OF SUBMITTER:	ABBY JACKSON	
SIGNATURE:	/Abby Jackson/	
DATE SIGNED:	12/17/2019	

Total Attachments: 15 source=1777.C46US1 Assignment-signed#page1.tif source=1777.C46US1 Assignment-signed#page2.tif source=1777.C46US1 Assignment-signed#page3.tif source=1777.C46US1 Assignment-signed#page4.tif source=1777.C46US1 Assignment-signed#page5.tif source=1777.C46US1 Assignment-signed#page6.tif source=1777.C46US1 Assignment-signed#page7.tif source=1777.C46US1 Assignment-signed#page8.tif source=1777.C46US1 Assignment-signed#page9.tif source=1777.C46US1 Assignment-signed#page10.tif source=1777.C46US1 Assignment-signed#page11.tif source=1777.C46US1 Assignment-signed#page12.tif source=1777.C46US1 Assignment-signed#page13.tif source=1777.C46US1 Assignment-signed#page14.tif source=1777.C46US1 Assignment-signed#page15.tif

RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 405976-US-NP (1777.C46US1) Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Microsoft Technology Licensing, LLC Andrey Karpovsky, Ron Matchoro, Haim Saadia Ben Street Address: One Microsoft Way Danan, Yotam Livny, Naama Kraus, Roy Levin, Tamer Salman City: <u>Redmond</u> State: <u>WA</u> Zip Country: <u>United States of America</u> Zip: 98052 Additional name(s) of conveying party(ies) attached? []Yes [X]No Additional name(s) & address(es) attached? []Yes [X]No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement[] Change of Name [] Other Execution Date: March 17, 2019, March 17, 2019, December 17, 2019, March 17, 2019, March 17, 2019, March 17, 2019, March 17, 2019 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) A. Patent Application No.(s) Serial No. 16/351,962 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Rigel J. Menard []Enclosed [Authorized to be charged to deposit account Address: 19-0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, Minnesota 55402 payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Rigel J. Menard/Reg. No. 66,520	/Rigel J Menard/	12/17/19
Name of Person Signing	Signature	Date
	Total number of pages includin	g cover sheet 15

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services

P.O. Box 1450 Alexandria, VA 22313-1450 I Andrey Karpovsky ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>CLOUD SECURITY USING MULTIDIMENSIONAL HIERARCHICAL MODEL</u>", which:

- 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, when known;
- was filed on <u>March 13, 2019</u> and was given Application No <u>16/351,962</u> by the following Office "<u>US Patent Office</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"));

Application No.	Filing Date	Office

BOS	17/03/2019
Inventor's Signature	Date
Andrey Karpovsky	Андрей Карповский
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

I Ron Matchoro ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CLOUD SECURITY USING MULTIDIMENSIONAL HIERARCHICAL MODEL", which:

- 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, when known;
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Application No.	Filing Date	Office	

17/3/201 Date Inventor's Signature 1,1'3A1 117 Ron Matchoro Printed Name in Native Language Printed Name in English (if other than English)

I Haim Saadia Ben Danan ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>CLOUD SECURITY USING</u> <u>MULTIDIMENSIONAL HIERARCHICAL</u> <u>MODEL</u>", which:

- 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, when known;
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Application No.	Filing Date	Office

t	12 / 17 / 2019
Inventor's Signature	Date
Haim Saadia Ben Danan	ןנד ןב הידעס םייח
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Yotam Livny ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CLOUD SECURITY USING MULTIDIMENSIONAL HIERARCHICAL MODEL", which:

- 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, when known;
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Application No.	Filing Date	Office	

A. I.	
YMM AMY2	Mars 17 2019
Inventor's Signature	Date
	e most de la contra
Yotam Livny	st o st
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Naama Kraus ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>CLOUD SECURITY USING MULTIDIMENSIONAL HIERARCHICAL MODEL</u>", which:

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, when known;

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Application No.	Filing Date	Office

CANE -	17 March 2019
Inventor's Signature	Date
Naama Kraus	נעמה קראוס
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Roy Levin ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "CLOUD SECURITY USING MULTIDIMENSIONAL HIERARCHICAL MODEL", which:

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, when known;

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Application No.	Filing Date	Office

2	
	17 March 2019
Inventor's Signature	Date
Roy Levin	רועי לוין
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Tamer Salman ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>CLOUD SECURITY USING MULTIDIMENSIONAL HIERARCHICAL MODEL</u>", which:

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, when known;

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Application No.	Filing Date	Office

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).

Ame	17 March 2019
Inventor's Signature	Date
Tamer Salman Printed Name in English	تامر سلمان Printed Name in Native Language (if other than English)

Page 2 of 2