505530204 06/18/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5577001

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
	Corrective Assignment to correct the ASSIGNEE STATE IS INCORRECT previously recorded on Reel 049481 Frame 0823. Assignor(s) hereby confirms the THE STATE SHOULD BE WASHINGTON.

CONVEYING PARTY DATA

Name	Execution Date
PENGCHENG LUO	09/26/2017
REEVES HOPPE BRIGGS	09/29/2017
BRYAN ROBERT JEFFREY	09/28/2017
NAVEED AZEEMI AHMAD	10/08/2017

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC	
Street Address:	5600 148TH AVENUE NE	
Internal Address:	REDWEST-C	
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15720697

CORRESPONDENCE DATA

Fax Number: (952)373-8920

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: 9524676088

Email: sgreenfield@khcip.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 2: PATENT GROUP DOCKETING DEPT Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	402913-US-NP
NAME OF SUBMITTER:	SUSAN GREENFIELD
SIGNATURE:	/Susan Greenfield/
DATE SIGNED:	06/18/2019

PATENT 505530204 REEL: 049500 FRAME: 0759

Total Attachments: 17 source=402913-US-NP_MarkedupRecordation2#page1.tif source=402913-US-NP MarkedupRecordation2#page2.tif source=402913-US-NP_MarkedupRecordation2#page3.tif source=402913-US-NP_MarkedupRecordation2#page4.tif source=402913-US-NP_MarkedupRecordation2#page5.tif source=402913-US-NP_MarkedupRecordation2#page6.tif source=402913-US-NP_MarkedupRecordation2#page7.tif source=402913-US-NP_MarkedupRecordation2#page8.tif source=402913-US-NP MarkedupRecordation2#page9.tif source=402913-US-NP_MarkedupRecordation2#page10.tif source=402913-US-NP_MarkedupRecordation2#page11.tif source=402913-US-NP_MarkedupRecordation2#page12.tif source=402913-US-NP_MarkedupRecordation2#page13.tif source=402913-US-NP MarkedupRecordation2#page14.tif source=402913-US-NP_MarkedupRecordation2#page15.tif source=402913-US-NP_MarkedupRecordation2#page16.tif source=402913-US-NP MarkedupRecordation2#page17.tif

PATENT REEL: 049500 FRAME: 0760

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5574465

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
	Corrective Assignment to correct the CORRECT ASSIGNOR'S LAST NAME previously recorded on Reel 043915 Frame 0074. Assignor(s) hereby confirms the PENGCHENG LUO.

CONVEYING PARTY DATA

Name	Execution Date
PENGCHENG LUO	09/26/2017
REEVES HOPPE BRIGGS	09/29/2017
BRYAN ROBERT JEFFREY	09/28/2017
NAVEED AZEEMI AHMAD	10/08/2017

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC	
Street Address:	5600 148TH AVENUE NE	
Internal Address:	REDWEST-C	
City:	REDMOND	
State/Country:	MINNESOTA	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15720697	

CORRESPONDENCE DATA

Fax Number: (952)373-8920

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: 9524676088

Email: sgreenfield@khcip.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 2: PATENT GROUP DOCKETING DEPT

Address Line 4: REDMOND, MINNESOTA 98052

ATTORNEY DOCKET NUMBER: 402913-US-NP

NAME OF SUBMITTER: SUSAN GREENFIELD

SIGNATURE: /Susan Greenfield/

DATE SIGNED: 06/17/2019

PATENT REEL: 049500 FRAME: 0761

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4651004

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PENGCHENG LOU	09/26/2017
REEVES HOPPE BRIGGS	09/29/2017
BRYAN ROBERT JEFFREY	09/28/2017
NAVEED AZEEMI AHMAD	10/08/2017

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:	15720697

CORRESPONDENCE DATA

Fax Number:

(952)373-8920

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:

952-467-6088

Email:

sgreenfield@khcip.com

Correspondent Name:

MICROSOFT CORPORATION

Address Line 1:

ONE MICROSOFT WAY

Address Line 2:

PATENT GROUP DOCKETING DEPT

Address Line 4:

REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER: 402913-US-NP

NAME OF SUBMITTER: SUSAN GREENFIELD

SIGNATURE: /Susan Greenfield/

DATE SIGNED:

10/20/2017

Total Attachments: 8

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> PATENT REEL: 049500 FRAME: 0762

MS Docket No.: 402913-US-NP

I Pengcheng LUO ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY MODEL TRAINING AND THRESHOLD SELECTION" ("APPLICATION"), which:

\boxtimes	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 <u>US - United States Patent and Trademark Office</u>)
	this APPLICATION's Application No., filing date, and Office, when known;
	was filed on and was given Application
	No by the following Office
	30 <u>n.</u> 3

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
- <u> </u>		

Page 1 of 2

MS Docket No.: 402913-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).

Ren	09/26/2017
Inventor's Signature	Date
Pengcheng LUO	
Printed Name in English	Printed Name in Native Language (if other than English)

MS Docket No.: 402913-US-NP

I Reeves Hoppe BRIGGS ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY MODEL TRAINING AND THRESHOLD SELECTION" ("APPLICATION"), which:

\boxtimes	will be	filed.	ASSIGNOR	hereby	authori	zes, a	ind rec	iuests.
	ASSIGNEE	'S legal	representat	ive, Mici	osoft Te	echnolo	oav Lice	nsina.
	LLC., One	Microso	oft Way, Redi	mond, W	ashingto	n 9805	2 (ASSIC	JNEE'S
	LEGAL RI	EPRESEN	ITATIVES), t	o insert	here in	parei	ntheses	(filed
	on		and giv	ven Appli	cation N	O		by
	the follow	ing Offi	ce <u>US - Unite</u>	d States	<u>Patent ar</u>	nd Trad	lemark (Office)
	this APPL known;	ICATION	l's Application	on No., t	filing dat	e, and	Office,	when
	was filed	on	a	ınd was ç	jíven Apj	olicatio	'n	
	No	· · · · · · · · · · · · · · · · · · ·	by the fo	ollowing	Office			
	ist.	 		71 ₅				

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
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Page 1 of 2

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MS Docket No.: 402913-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).

2,-	9/29/2017
inventor's Signature	Date
Reeves Hoppe BRIGGS	
Printed Name in English	Printed Name in Native Language (if other than English)

MS Docket No.: 402913-US-NP

I Bryan Robert JEFFREY ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY MODEL TRAINING AND THRESHOLD SELECTION" ("APPLICATION"), which:

Ø	will be filed.	ASSIGNOR hereby authorizes, and requests	5.
		I representative, Microsoft Technology Licensing oft Way, Redmond, Washington 98052 (ASSIGNEE'	
	LEGAL REPRESE	VTATIVES), to insert here in parentheses (file and given Application Nob	đ
	the following Off	ice <u>US - United States Patent and Trademark Office</u> N's Application No., filing date, and Office, when	:)
	was filed on	and was given Application	
	No	by the following Office	

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., filling date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office

Page I of 2

REEL: 049500 FRAME: 0767

. 0.

MS Docket No.: 402913-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

Bryan Robert JEFFREY

Printed Name in English

9/28/2017

Date

Printed Name in Native Language (if other than English)

REEL: 049500 FRAME: 0768

MS Docket No.: 402913-US-NP

I Naveed Azeemi AHMAD ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SECURITY MODEL TRAINING AND THRESHOLD SELECTION" ("APPLICATION"), which:

\boxtimes	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 Noby
	the following Office US - United States Patent and Trademark Office)
	this APPLICATION's Application No., filing date, and Office, when known;
	was filed on
	was filed on and was given Application
	No by the following Office

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
		
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Page 1 of 2

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MS Docket No.: 402913-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"));

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Inventor's Signature

Date

Naveed Azeemi AHMAD

Printed Name in English

Printed Name in Native Language

(if other than English)