503538327 10/23/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAN GILAD-BACHRACH	11/07/2014
THOMAS WILLIAM FINLEY	11/07/2014
MIKHAIL BILENKO	11/07/2014
PENGTAO XIE	11/07/2014

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:	14536145

CORRESPONDENCE DATA

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Correspondent Name: SHOOK, HARDY & BACON L.L.P.

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ATTORNEY DOCKET NUMBER:	355782.01/MFCP.216953
NAME OF SUBMITTER:	GEORGE-LEONARD N. NGENGWE
SIGNATURE:	/George-Leonard N. Ngengwe/
DATE SIGNED:	10/23/2015

Total Attachments: 8

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PATENT 503538327 REEL: 036872 FRAME: 0052

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PATENT REEL: 036872 FRAME: 0053

I RAN GILAD-BACHRACI joint inventor of subject matt application entitled "NEURAL which:	er ("INVENTION") disclos	
ASSIGNEE'S legal Grand Blvd., Kans customer number Insert here in par Application No	ASSIGNOR hereby autrepresentative, Shook, Hassas City, Missouri 64108, 45809 (ASSIGNEE'S LEGATE on 11/7/20. 14/536,145 States Patent and Trademark Office who	rdy & Bacon L.L.P., 2555 who are associated with AL REPRESENTATIVES), to 2014 and given by the following this APPLICATION's
	and was given by the following Offic	
Microsoft Technology Liebehalf of itself and its succe desirous of acquiring, the entiright of priority, in the INVENTI patents derived therefrom, sucfor the United States, its (DERIVATIVES"));	ssors and assigns ("ASS re and exclusive rights, t ON and the APPLICATION h as continuing application	itle and interest, including the (and all other applications and ons, in whole or in part, in and
ASSIGNOR hereby REPRESENTATIVES to insert to following table for any APPLICA	he Application No., filir	
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Application No.	riing vate	Office
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Page 1 of 2

MS Docket No.: 355782.01

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).

/~~n	11/2/2014
Inventor's Signature	Date
RAN GILAD-BACHRACH	TJJA 77
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 355782.01

joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "NEURAL NETWORKS FOR ENCRYPTED DATA" ("APPLICATION"), which:

Will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Shook, Hardy & Bacon L.L.P., 2555 Grand Blvd., Kansas City, Missouri 64108, who are associated with customer number 45809 (ASSIGNEE'S LEGAL REPRESENTATIVES), to

insert here in parentheses (filed on 11/7/2014 and given Application No. 14/536,145 by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;

I THOMAS WILLIAM FINLEY ("ASSIGNOR") am the original inventor or an original

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;

Page 1 of 2

	PATENT A	ASSIGNME	ENT	MS Docket No.:	: <u>333/82.01</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")):

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

Date

THOMAS WILLIAM FINLEY

Printed Name in English

Printed Name in Native Language

(if other than English)

I <u>MIKHAIL BILENKO</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter "INVENTION") disclosed and/or claimed in a patent application entitled "<u>NEURAL NETWORKS FOR E CRYPTED DATA</u>" ("APPLICATION"), which:

ASSIGNEE'S legal representative, Shook, Hardy & Bacon L.L.P., 2555 Grand Blvd., Kansas City, Missouri 64108, who are associated with customer number 45809 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on 11/7/2 and given Application No. 14/536,145 by the following Office US - United States Patent and Trademark Office this APPLICATION's Application No., filing date, an Office, when known; Was filed on and was given Application No by the following Office ""; Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itse
Office US - United States Patent and Trademark Office; this APPLICATION's Application No., filing date, an Office, when known; Was filed on and was given Application No by the following Office "";
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Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of its
(and all other applications and patents derived therefrom, such as continuing applications, in whole or part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES" ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEG. REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for an application and the second states of
APPLICATION DERIVATIVES after they are known;
Application No. Filing Date Office
Page 1 of 2 6630993 v1
6630993 v1

PATENT REEL: 036872 FRAME: 0058

MS Docket No.: <u>355782.01</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"));

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Miha Dinko	11/7/2014
Inventor's Signature	Date
MIKHAIL BILENKO	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>PEN</u>	<u>GTAO XIE</u> ("ASSIG	SNOR") am the	original	inventor or a	ın original joint
inventor of	subject matter (("INVENTION") d	isclosed	and/or claim	ed in a patent
application which:	entitled " <u>NEURAL</u>	<u>NETWORKS FO</u>	R ENCRYP	TED DATA" (("APPLICATION"),
	will be filed. ASSIGNEE'S legal of the control of	representative, Seas City, Missour 45809 (ASSIGN) rentheses (filed of 14/536,14 res Patent and Trademark Official diagrams) and v	hook, Har i 64108, v EE'S LEGA on <u>11/7/2</u> 55 ffice, whe	dy & Bacon L.I vho are associ L REPRESENTA 014 i by the) this APPLI n known; Application	L.P., 2555 lated with TIVES), to and given following
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Page 1 of 2

MS Docket No.: 355782.01

PATENT.	ASSIGNMENT	MS Docket No.:	355782.01
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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")):

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Inventor's Signature

PENGTAO XIE

Printed Name in English

Date

Printed Name in Native Language

(if other than English)

Page 2 of 2

RECORDED: 10/23/2015