

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PENGSHUAI WANG	05/03/2017
YANG LIU	05/03/2017
XIN TONG	05/03/2017
RECEIVING PARTY DATA	
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Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052-6399
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16606653
CORRESPONDENCE DATA	
Fax Number:	(612)332-9081
<i>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.</i>	
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Correspondent Name:	MERCHANT & GOULD P.C.
Address Line 1:	P.O. BOX 2903
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NAME OF SUBMITTER:	TIMOTHY B. SCULL
SIGNATURE:	/Timothy B. Scull/
DATE SIGNED:	10/22/2019
Total Attachments: 6	
source=Assignment_14917_3728USWO#page1.tif	
source=Assignment_14917_3728USWO#page2.tif	
source=Assignment_14917_3728USWO#page3.tif	
source=Assignment_14917_3728USWO#page4.tif	
source=Assignment_14917_3728USWO#page5.tif	

I Pengshuai Wang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "OCTREE-BASED CONVOLUTIONAL NEURAL NETWORK" ("APPLICATION"), 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 April 28, 2017 and was given Application No. 201710297300.4 by the following Office "State Intellectual Property Office of the People's Republic of China";

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
16/606653	2019-10-18	US Patent and Trademark Office

PATENT ASSIGNMENT

MS Docket No.: 362918.01

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).

<u>王鹏帅</u>	<u>2017.5.3</u>
Inventor's Signature	Date
<u>Pengshuai Wang</u>	<u>王鹏帅</u>
Printed Name in English	Printed Name in Native Language (if other than English)

I Yang Liu ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "OCTREE-BASED CONVOLUTIONAL NEURAL NETWORK" ("APPLICATION"), which:

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PATENT ASSIGNMENT

MS Docket No.: 362918.01

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	<u>2017.5.3</u>
Inventor's Signature	Date
<u>Yang Liu</u>	<u>刘洋</u>
Printed Name in English	Printed Name in Native Language (if other than English)

I Xin Tong ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "OCTREE-BASED CONVOLUTIONAL NEURAL NETWORK" ("APPLICATION"), which:

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PATENT ASSIGNMENT

MS Docket No.: 362918.01

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	<u>2017/5/3</u>
Inventor's Signature	Date
<u>Xin Tong</u>	<u>童欣</u>
Printed Name in English	Printed Name in Native Language (if other than English)