

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TIANYI CHEN	03/15/2019
YIXIN SHI	03/13/2019
SHENG YI	03/15/2019
RECEIVING PARTY DATA	
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City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16355702
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<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:	BARTA, JONES & FOLEY, P.C. (PATENT GROUP)
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Address Line 4:	PLANO, TEXAS 75093
ATTORNEY DOCKET NUMBER:	405889-US-NP
NAME OF SUBMITTER:	HOLLI L. TEMPLETON
SIGNATURE:	/Holli L. Templeton/
DATE SIGNED:	03/15/2019
Total Attachments: 6	
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PATENT ASSIGNMENT

MS Docket No.: 405889-US-NP

I Tianyi CHEN ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SPATIALLY SPARSE CONVOLUTIONAL NEURAL NETWORKS FOR INKING APPLICATIONS" ("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 March 15, 2019 and given Application No. 16/355,702 by the following Office "US - United States Patent and Trademark Office"; this APPLICATION's Application No., filing date, and Office, when known;

was filed on _____ and was given Application No. _____ by the following Office "US - United States Patent and Trademark 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;


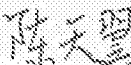
Application No.	Filing Date	Office

PATENT ASSIGNMENT

MS Docket No.: 405889-IJS-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	03/15/2009 Date
Tianyi CHEN Printed Name in English	 Printed Name in Native Language (if other than English)

I Yixin SHI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SPATIALLY SPARSE CONVOLUTIONAL NEURAL NETWORKS FOR INKING APPLICATIONS" ("APPLICATION"), which:

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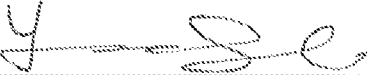
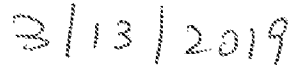
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_____ Inventor's Signature	_____ Date
Yixin SHI _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 405889-US-NP

I Sheng Yi ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "SPATIALLY SPARSE CONVOLUTIONAL NEURAL NETWORKS FOR INKING APPLICATIONS" ("APPLICATION"), which:

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 Inventor's Signature	03/15/17. Date
Sheng Yi Printed Name in English	 Printed Name in Native Language (if other than English)