505123985 10/03/2018 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNI	MENT		
NATURE OF CONVEYA	NCE:	ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ				
		Name			Execution Date
KAIYU YANG				09/28/2018	
YONGZHENG ZHANG				09/28/2018	
LI YANG				09/28/2018	
BING WANG					09/28/2018
RECEIVING PARTY DA	TA				
Name:	MICRO	SOFT TECHNOLOG	Y LICENSING, LI	_C	
Street Address:	ONE M	CROSOFT WAY	·		
City:	REDMO	ND			
State/Country:	WASHI	NGTON			
Postal Code:	98052				
Property Type					
Application Number: 1614					
Application Number:		16145032			
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RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 902325-US-NP (3080.K26US1) To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Microsoft Technology Licensing, LLC Kaivu Yang, Yongzheng Zhang, Li Yang, Bing Wang Street Address: One Microsoft Way Additional name(s) of conveying party(ies) attached? City: <u>Redmond</u> State: <u>WA</u> Zip Country: <u>United States of America</u> Zip: <u>98052</u> []Yes [X]No 3. Nature of conveyance: Additional name(s) & address(es) attached? []Yes [X]No [X] Assignment | | Merger [] Security Agreement[] Change of Name [] Other Execution Date: September 28, 2018, September 28, 2018, September 28, 2018, September 28, 2018 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: A. Patent Application No.(s) B. Patent No.(s) Serial No. 16/145.032 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: Elena B. Dreszer [[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

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Statement and signature.

Minneapolis, Minnesota 55402

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.

Elena B. Dreszer/Reg. No. 55,128	/Elena Dreszer/	10-1-2018
Name of Person Signing	Signature	Date
	Total number of pages	including cover sheet: 9

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

payments to our Deposit Account No.: 19-0743

I Kaiyu Yang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>IDENTIFYING SPAMMER PROFILES</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 September 27, 2018 and was given Application No 16/145,032 by the following Office "US Patent 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

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).

ignature Invento

Date

Kaiyu Yang Printed Name in English

Printed Name in Native Language (if other than English)

Page 2 of 2

PATENT REEL: 047050 FRAME: 0819 I Yongzheng Zhang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "IDENTIFYING SPAMMER PROFILES", 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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9/28/2018 Inventor's Signature Date Yongzheng Zhang Printed Name in Native Language

Printed Name in English

(if other than English)

Page 2 of 2

I Li Yang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>IDENTIFYING SPAMMER PROFILES</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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	2018-09-28
Inventor's Signature	Date
Li Yang	木汤 (新
Printed Name in English	Printed Name in Native Language
	(if other than English)

I Bing Wang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>IDENTIFYING SPAMMER PROFILES</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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Bing Wang	912812018
Inventor's Signature	Date
Bing Wang	J. M.
Printed Name in English	Printed Name in Native Language
	(if other than English)