

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KUN JING	12/15/2017
HAOYONG ZHANG	11/16/2017
XIAOSONG YANG	11/22/2017
JIAN LI	11/15/2017
SHUANG PENG	12/12/2017
RECEIVING PARTY DATA	
Name:	MICROSOFT CORPORATION
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15115505
CORRESPONDENCE DATA	
Fax Number:	(816)421-5547
<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>	
Phone:	816-474-6550
Email:	shulvey@shb.com
Correspondent Name:	SHOOK, HARDY & BACON L.L.P.
Address Line 1:	2555 GRAND BLVD.
Address Line 2:	INTELLECTUAL PROPERTY DEPARTMENT
Address Line 4:	KANSAS CITY, MISSOURI 64108-2613
ATTORNEY DOCKET NUMBER:	340648.01/MFCP.200099
NAME OF SUBMITTER:	JOHN S. GOLIAN
SIGNATURE:	/JOHN S. GOLIAN/
DATE SIGNED:	12/20/2017
Total Attachments: 10	

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PATENT ASSIGNMENT

I KUN JING ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a nonprovisional patent application entitled "ENTITY PAGE GENERATION AND ENTITY RELATED SEARCHING" ("APPLICATION"), which:

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of 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 _____ and given Application No. _____ by the following Office _____) this APPLICATION's Application No., filing date, and Office, when known:

was filed on January 30, 2014 and was given Application No. PCT/CN2014/071845 by the following Office "PCT or WIPO International Bureau":

Microsoft Corporation, a Washington Corporation, 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 in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));


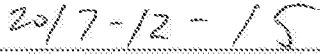

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Application No.	Filing Date	Office
15/115,505	07/29/2016	USPTO

PATENT ASSIGNMENT

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 in the INVENTION and the APPLICATION (and 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
KUN JING Printed Name in English	 Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I HAOYONG ZHANG ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a nonprovisional patent application entitled "ENTITY PAGE GENERATION AND ENTITY RELATED SEARCHING" ("APPLICATION"), which:

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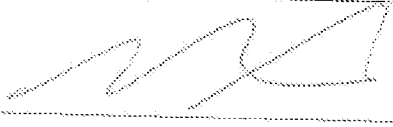
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	<u>Nov 16, 2017</u>
Inventor's Signature	Date
<u>HAOYONG ZHANG</u>	<u>张皓勇</u>
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I XIAOSONG YANG ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a nonprovisional patent application entitled "ENTITY PAGE GENERATION AND ENTITY RELATED SEARCHING" ("APPLICATION"), which:

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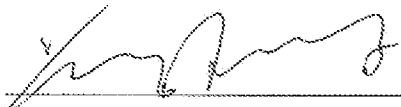
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 _____ Inventor's Signature	11/22/2017 _____ Date
XIAOSONG YANG _____ Printed Name in English	杨晓松 _____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I JIAN LI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a nonprovisional patent application entitled "ENTITY PAGE GENERATION AND ENTITY RELATED SEARCHING" ("APPLICATION"), which:

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 _____ Inventor's Signature	11/15/2017 _____ Date
JIAN LI _____ Printed Name in English	 _____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

I SHUANG PENG ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a nonprovisional patent application entitled "ENTITY PAGE GENERATION AND ENTITY RELATED SEARCHING" ("APPLICATION"), which:

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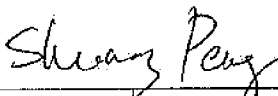
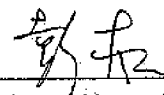
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	<u>2017/12/22</u>
Inventor's Signature	Date
<u>SHUANG PENG</u>	
Printed Name in English	Printed Name in Native Language (if other than English)