

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHAO LIU	08/10/2013
CHAO ZHOU	08/07/2013
YI-MIN WANG	08/06/2013
RECEIVING PARTY DATA	
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State/Country:	WASHINGTON
Postal Code:	98052
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14965570
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ATTORNEY DOCKET NUMBER:	332900.03
NAME OF SUBMITTER:	BARRY D. BLOUNT
SIGNATURE:	/Barry D. Blount, Reg. # 35,069/
DATE SIGNED:	01/06/2016
Total Attachments: 6	
source=332900_03_AssignmentChaoLiu#page1.tif	
source=332900_03_AssignmentChaoLiu#page2.tif	
source=332900_03_AssignmentChaoZhou#page1.tif	
source=332900_03_AssignmentChaoZhou#page2.tif	

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I Chao Liu (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “INTERACTIVE WEB CRAWLER” (“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 December 10, 2015 and was given Application No 14/965,570 by the following Office “United States Patent and Trademark Office”;

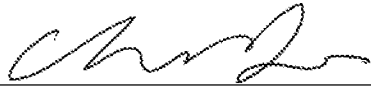
Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns (“ASSIGNEE”), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (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

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).

	<u>08/10/2013</u>
Inventor's Signature	Date
<u>Chao Liu</u>	
Printed Name in English	Printed Name in Native Language (if other than English)

I Chao Zhou (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “INTERACTIVE WEB CRAWLER” (“APPLICATION”), which:

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	<u>2013/08/07</u>
Inventor's Signature	Date
<u>Chao Zhou</u>	<u>周超</u>
Printed Name in English	Printed Name in Native Language (if other than English)

I Yi-Min Wang (“ASSIGNOR”) am the original inventor or an original joint inventor of subject matter (“INVENTION”) disclosed and/or claimed in a patent application entitled “INTERACTIVE WEB CRAWLER” (“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;
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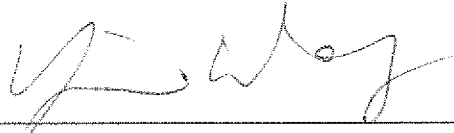

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_____ Inventor's Signature	_____ Date
_____ Yi-Min Wang	_____ Printed Name in Native Language (if other than English)
_____ Printed Name in English	