

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Zhiwei Li</td> <td>12/05/2012</td> </tr> <tr> <td>Wei-Ying Ma</td> <td>01/22/2013</td> </tr> <tr> <td>Heung-Yeung Shum</td> <td>01/29/2013</td> </tr> <tr> <td>Lei Zhang</td> <td>12/07/2012</td> </tr> <tr> <td>Rui Cai</td> <td>12/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Zhiwei Li	12/05/2012	Wei-Ying Ma	01/22/2013	Heung-Yeung Shum	01/29/2013	Lei Zhang	12/07/2012	Rui Cai	12/05/2012
Name	Execution Date												
Zhiwei Li	12/05/2012												
Wei-Ying Ma	01/22/2013												
Heung-Yeung Shum	01/29/2013												
Lei Zhang	12/07/2012												
Rui Cai	12/05/2012												
RECEIVING PARTY DATA													
Name:	Microsoft Corporation												
Street Address:	One Microsoft Way												
City:	Redmond												
State/Country:	WASHINGTON												
Postal Code:	98052												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13692922</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13692922								
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Application Number:	13692922												
CORRESPONDENCE DATA													
Fax Number:	5093238979												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	509-324-9256												
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Correspondent Name:	LEE & HAYES, PLLC												
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Address Line 4:	Spokane, WASHINGTON 99201												
ATTORNEY DOCKET NUMBER:	MS1-4854USC1												
NAME OF SUBMITTER:	Amanda Sasser												

OP \$40.00 13692922

Total Attachments: 10

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PATENT ASSIGNMENT MS Docket No.: 327761.xx

Attorney Docket No.: MS1-4854USC1

I, Zhiwei Li ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled

("APPLICATION"), which:

- will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of the Law and Corporate Affairs Department, Microsoft Corporation, 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 US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;
- was filed on 12/03/2012 and was given Application No. 13/692,922 by the following Office "US - United States Patent and Trademark Office";

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"));

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.: 327761.xx

Attorney Docket No.: MS1- 4854USC1

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>Zhiwei Li</u>	<u>12/05/2012</u>
Inventor's Signature	Date
<u>Zhiwei Li</u>	<u>李志伟</u>
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 327761.xx

Attorney Docket No.: MS1-4854USC1

Wei-Ying Ma ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled

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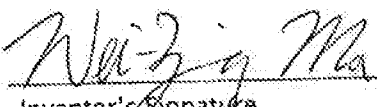
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 _____ Inventor's signature	<u>1/22/2013</u> _____ Date
<u>Wei-Ying Ma</u> _____ Printed Name in English	_____ Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 327761.xx

Attorney Docket No.: MS1- 4854USC1

) Heung-Yeung Shum ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled

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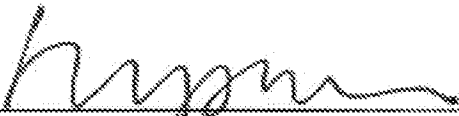

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Inventor's Signature	Date
Heung-Yeung Shum	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 327761.xx

Attorney Docket No.: MS1- 4854USC1

I, Lei Zhang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled

Long-Query Retrieval

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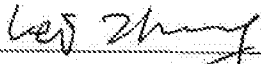

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 Inventor's Signature	Dec. 7, 2012 Date
Lei Zhang Printed Name in English	 Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 327761.xx

Attorney Docket No.: MS1- 4854USC1

I, Rui Cai ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled

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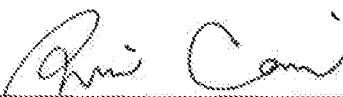
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	2012.12.05
Inventor's Signature	Date
Rui Cai	蔡 锐
Printed Name in English	Printed Name in Native Language (if other than English)