# 502229487 02/13/2013

## PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
YUE-SHENG LIU	11/15/2012
XIAO-SONG YANG	11/06/2012
HUI SHEN	11/06/2012
WEIHU WANG	11/02/2012
JOHN G BENNETT	11/11/2012

#### **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:	13687135

# **CORRESPONDENCE DATA**

**Fax Number**: 8164215547

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Correspondent Name: SHOOK HARDY & BACON L.L.P.
Address Line 1: 2555 GRAND BOULEVARD
Address Line 4: KANSAS CITY, MISSOURI 64108

ATTORNEY DOCKET NUMBER:	MFCP.175496
NAME OF SUBMITTER:	ANNE R. HANNAH

Total Attachments: 10

PATENT REEL: 029803 FRAME: 0536 OP \$40,00 13687135

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PATENT REEL: 029803 FRAME: 0537

inventor of subject matter ("IN	VENTION") disclosed and/	inventor or an original joint or claimed in a nonprovisional for Semantic Searching"
ASSIGNEE'S legal Department, Mic Washington 9805 in parentheses (f 13/687,135 Shook Hardy & E	representatives, of the crosoft Corporation, One 2 (ASSIGNEE'S LEGAL REPriled on November 28, 201) by the	y authorizes, and requests, Law and Corporate Affairs e Microsoft Way, Redmond, RESENTATIVES), to insert here  2 and given Application No. following Office PPLICATION's Application No.,
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Page 1 of 2

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).

Date

Yue-Sheng Liu

YUE-SHENG LIU

Printed Name in English

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Printed Name in Native Language (if other than English)

inventor of subject matter ("IN\	/ENTION") disclosed and/	inventor or an original Joint or claimed in a nonprovisional for Semantic Searching"
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following table for any APPLICA Application No.	Filing Date	Office

Page 1 of 2

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Yian-Sana Vana

XIAOSONG YANG

Printed Name in English

11/06/2012

Date

Printed Name in Native Langua

(if other than English)

I, <u>Hui Shen</u> ("ASSIGNOR") subject matter ("INVENTION") application entitled " <u>Per-Docu</u> which:	disclosed and/or claime	
ASSIGNEE'S legal Department, Mic Washington 9805 in parentheses (f 13/687,135 Shook Hardy & Ba	representatives, of the rosoft Corporation, One 2 (ASSIGNEE'S LEGAL REPiled on November 28, 201	wauthorizes, and requests, Law and Corporate Affairs Microsoft Way, Redmond, RESENTATIVES), to insert here and given Application No. following Office PPLICATION's Application No.,
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successors and assigns ("ASSIC entire and exclusive rights, tit (and all other applications a applications, in and for the t ("APPLICATION DERIVATIVES")); ASSIGNOR hereby REPRESENTATIVES to insert t	GNEE"), is entitled to, and le and interest in the INV and patents derived the Jnited States, its territorial authorizes, and require Application No., filin	ENTION and the APPLICATION erefrom, such as continuing les, and all foreign countries uests, ASSIGNEE'S LEGAL g date, and Office into the
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Page 1 of 2

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).

Hui Shen

Printed Name in English

Date

Printed Name in Native Language

(if other than English)

I, Weihu Wang ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a nonprovisional patent application entitled "Per-Document Index for Semantic Searching" ("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 November 28, 2012 and given Application No. 13/687,135 by the following Office Shook Hardy & Bacon L.L.P. ) this APPLICATION's Application No., filing date, and Office, when known;
by the following 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., filling date, and Office into the
following table for any APPLICATION DERIVATIVES after they are known;  Application No. Filing Date Office
Application No. Filing Date Office

Page 1 of 2

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).

Wish Wang	2012.11.2
Weihu Wang	Date
Weihu Wany	王玮琨
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No. 337674.01 (OC Docket No. MFCP.175496)

## PATENT ASSIGNMENT

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ASSIGNEE'S lega Department, Mic Washington 9805 in parentheses (1 13/687,135 Shook Hardy & Bac	I representatives, of the crosoft Corporation, On 52 (ASSIGNEE'S LEGAL REFilled on November 28, 2012 by the	oy authorizes, and requests, by authorizes, and requests, be Law and Corporate Affairs are Microsoft Way, Redmond, PRESENTATIVES), to insert here and given Application No. following Office APPLICATION's Application No.,
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Application No.	Filing Date	Office
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MS Docket No. 337674,01 (OC Docket No. MFCP.175496)

#### PATENT ASSIGNMENT

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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).

John G. Bennett

John G. Bennett

Date

Tohn G. Bennett

Printed Name in English

Printed Name in Native Language
(if other than English)

Page 2 of 2