502077201 09/27/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XUEDONG DAVID HUANG	08/22/2012
SAMUEL Y. SHEN	09/11/2012
HONGJIANG ZHANG	09/05/2012
YONG RUI	08/21/2012

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:	13609729

CORRESPONDENCE DATA

Fax Number: 8164215547

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

Phone: 816-474-6550
Email: ssutton@shb.com

Correspondent Name: Shook, Hardy & Bacon L.L.P. (Microsoft)

Address Line 1: 2555 Grand Blvd.

Address Line 2: Intellectual Property Dept.

Address Line 4: Kansas City, MISSOURI 64108

ATTORNEY DOCKET NUMBER:	333830.02/MFCP.163560
NAME OF SUBMITTER:	KELLY T. FEIMSTER

Total Attachments: 4

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> PATENT REEL: 029038 FRAME: 0899

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502077201

4697604 v1

PATENT ASSIGNMENT

		·
RUI ("ASSIGNOR"), have invente claimed in a patent application which:	d subject matter entitled "GESTURE-I out this executed P	BASED SEARCH" ("APPLICATION"), ATENT ASSIGNMENT. ASSIGNOR
hereby authorizes	, and requests, ASS	IGNEE'S legal representatives, of
Shook, Hardy & B	acon L.L.P. 2555 G	rand Blvd., Kansas City, Missouri
64108, who are	associated with cus	tomer number 45809, to insert
		3/609,729 , filed 09/11/2012)
		d filing date, when known;
er e		n Application No;
is filed concurrent		
		tion, on behalf of itself and its
successors and assigns ("ASSIGNE		
entire and exclusive rights, title a		
(and all other applications and applications, in and for the Unit		
("APPLICATION DERIVATIVES")):	eu states, its tein	tories, and an foreign countries
	consideration the	receipt of which is hereby
acknowledged by the ASSIGNOR,		
the ASSIGNEE, the entire and excl		
the APPLICATION (and APPLICATIO		
and a second of the second		and documents required for the
making and prosecution of the		
litigation regarding letters patent	derived therefrom, a	and for the purpose of protecting
and perfecting title to the APPLICA	TION (and APPLICAT	TION DERIVATIVES).
June 1	8/22/2012	Knedong Huang
XUEDONG DAVID HUANG	Date	Printed Name in Native Language
SAMUEL Y. SHEN	Date	Printed Name in Native Language
HONGJIANG ZHANG	Date	Printed Name in Native Language
YONG RUI	Date	Printed Name in Native Language

PATENT REEL: 029038 FRAME: 0900

	PATENT ASSIGN	MEIN I
RUI ("ASSIGNOR"), have invenclaimed in a patent application which:	ted subject matter 1 entitled "GESTURE-	EN, HONGJIANG ZHANG, and YONG ("INVENTION") disclosed and/or -BASED SEARCH" ("APPLICATION"),
hereby authoriz Shook, Hardy & 64108, who are here in parenthe this APPLICATIO was filed on is filed concurre Microsoft Corporation, a successors and assigns ("ASSIG entire and exclusive rights, title (and all other applications a applications, in and for the Ur ("APPLICATION DERIVATIVES")); For good and valuable acknowledged by the ASSIGNOR the ASSIGNEE, the entire and ex the APPLICATION (and APPLICAT ASSIGNOR agrees to exe making and prosecution of th	es, and requests, AS Bacon L.L.P. 2555 (e associated with cuesis (Application No. a M's Application No. a and was givently herewith; Washington Corpore NEE"), is entitled to, a and interest in the and patents derived nited States, its term of consideration, the colusive rights, title as ion DERIVATIVES); cute all instruments of APPLICATION (and and derived therefrom, and derived therefrom,	ration, on behalf of itself and its and is desirous of acquiring, the INVENTION and the APPLICATION therefrom, such as continuing ritories, and all foreign countries be receipt of which is hereby eby sells, assigns and transfers to and interest in the INVENTION and and documents required for the APPLICATION DERIVATIVES), for and for the purpose of protecting
XUEDONG DAVID HÚẬNG	Date	Printed Name in Native Language
MAG.	9/11/12	Samuel Y. Shan
SAMUEL Y. SHEN	Date	Printed Name in Native Language
HONGJIANG ZHANG	Date	Printed Name in Native Language
YONG RUI	Date	Printed Name in Native Language

4697604 v1

PATENT ASSIGNMENT

We, XUEDONG DAVID HUANG, SAMUEL Y. SHEN, HONGJIANG ZHANG, and YON
RUI ("ASSIGNOR"), have invented subject matter ("INVENTION") disclosed and/o
claimed in a patent application entitled "GESTURE-BASED SEARCH" ("APPLICATION"
which:

\bowtie	will be filed without this executed PATENT ASSIGNMENT. 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, to insert
	here in parenthesis (Application No. $\frac{13/609,729}{}$, filed $\frac{09/11/2012}{}$
	this APPLICATION's Application No. and filing date, when known;
	was filed on and was given Application No;
	is filed concurrently herewith;

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"));

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, the 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).

XUEDONG DAVID HUANG	Date	Printed Name in Native Language
SAMUEL Y. SHEN	Date	Printed Name in Native Language
- Hard	4/5/2012	HONGDIANG ZHANG
HONG AND ZHANG	Date	Printed Name in Native Language
YONG RUI	Date	Printed Name in Native Language

4697604 v1

PATENT ASSIGNMENT

RUI ("ASSIGNOR"), have invent claimed in a patent application which:	ted subject matter entitled "GESTURE	EN, HONGJIANG ZHANG, and YONG ("INVENTION") disclosed and/or BASED SEARCH" ("APPLICATION"),	
will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of			
Shook Hardy &	Racon I I P 2555 A	Grand Blvd., Kansas City, Missouri	
here in parenthe	64108, who are associated with customer number 45809, to insert here in parenthesis (Application No. $\frac{13/609,729}{1000}$, filed $\frac{09/11/2012}{1000}$)		
		and filing date, when known;	
was filed on	and was giv	en Application No.	
is filed concurrer	ntly herewith	en Application No.	
		ation, on behalf of itself and its	
successors and assigns ("ASSIGN	VEE"), 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 an	d patents derived	therefrom, such as continuing	
applications, in and for the Un	ited States, its terr	itories, and all foreign countries	
("APPLICATION DERIVATIVES"));		restriction and toxing reputities	
For good and valuable	consideration, th	e receipt of which is hereby	
acknowledged by the ASSIGNOR,	the ASSIGNOR here	by sells, assigns and transfers to	
the ASSIGNEE, the entire and exc	lusive rights, title a	nd interest in the INVENTION and	
the ASSIGNEE, the entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);			
		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 APPLICA	ATION (and APPLICA	TION DERIVATIVES).	
XUEDONG DAVID HUANG	Date	Printed Name in Native Language	
A A A A A A A A A A A A A A A A A A A			
SAMUEL Y. SHEN	Date	Printed Name in Native Language	
ONGJIANG ZHANG	Date		
ZIANO	Date	Printed Name in Native Language	
- Justa	8/21/2012	YONG RUI	
ONG RU/	Date	Printed Name in Native Language	

4697604 v1

PATENT REEL: 029038 FRAME: 0903

RECORDED: 09/27/2012