502259933 03/08/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Guobin Shen	02/05/2013
Thomas Moscibroda	02/05/2013
Yongguang Zhang	03/04/2013

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:	13791508

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Address Line 4: Spokane, WASHINGTON 99201

ATTORNEY DOCKET NUMBER:	MS1-5346US
NAME OF SUBMITTER:	Amanda Sasser

Total Attachments: 6 source=XG9676#page1.tif

PATENT REEL: 029956 FRAME: 0073 > \$40.00 13791*!*

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PATENT REEL: 029956 FRAME: 0074

PATENT .	ASSIGNMENT M	S Docket No.:	337989.01
	Attorne	y Docket No.:	MS1- 5346US
IGuobin S		-	the original inventor
or an original joint inventor of	subject matter ("INVE	NTION") disclo	sed and/or claimed
in a patent application entitled			
CRO'	WD SOURCED PATHWAY	/ MAPS	
("APPLICATION"), which:			
_	ASSIGNOR hereby	authorizes, ar	nd requests,
	representatives, of the		
-	osoft Corporation, On	-	
Washington 9805	2 (ASSIGNEE'S LEGAL I	REPRESENTATI	/ES), to insert
here in parenth	eses (filed on ⁰ 8 M	arch 2013	_ and given
Application No. $\frac{13}{2}$	by the	following Offic	e <u>US – United</u>
States Patent	and Trademark Of	<u>fice</u>) this A	PPLICATION's
_ · ·	iling date, and Office,		
	and was gi	ven Applicatio	n No
	by the following Offic	e " <u>US – United</u>	States Patent
and Trademark Office)";			
Microsoft Corporation,	-		
successors and assigns ("ASSIC			• =
entire and exclusive rights, tit			
(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"));	onited States, its terr	itorics, and a	ii Torcigii countries
(· · · · = · · · · · · · · · · · · · ·			
ASSIGNOR hereby	authorizes, and	requests, A	SSIGNEE'S LEGAL
REPRESENTATIVES to insert t	he Application No.,	filing date, a	nd Office into the
following table for any APPLICA	TION DERIVATIVES aft	er they are kno	own;
Application No.	Filing Date	Office	

Page 1 of 2

PATENT ASSIGNMENT MS Docket No.:

337989.01

Attorney Docket No.:

MS1-5346US

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).

3.0/2/5 Inventor's Signature Date Guobin Shen Printed Name in English Printed Name in Native Language (if other than English)

> **PATENT REEL: 029956 FRAME: 0076**

PATENT	ASSIGNMENT MS	Docket No.:	337989.01
	Attorney	Docket No.:	MS1- 5346US
I Yongguang	Zhang ("ASS	IGNOR") am	the original inventor
or an original joint inventor of	subject matter ("INVEN	TION") disclo	osed and/or claimed
in a patent application entitled			
CRO	WD SOURCED PATHWAY I	MAPS	
("APPLICATION"), which:			
oxtimes will be filed.	ASSIGNOR hereby au	ithorizes, a	nd requests,
ASSIGNEE'S legal	representatives, of the	_aw and Cor	porate Affairs
· ·	osoft Corporation, One		• •
Washington 9805	2 (ASSIGNEE'S LEGAL RE	PRESENTATI	VES), to insert
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	and Trademark Office		PPLICATION'S
<u> </u>	iling date, and Office, w		No
☐ was filed on	and was give		
by the following Office " <u>US – United States Patent</u>			
<u>and Trademark O</u> Microsoft Corporation,		ion on hoh	alf of itself and its
successors and assigns ("ASSI	-		
entire and exclusive rights, tit			• •
(and all other applications			
applications, in and for the United States, its territories, and all foreign countries			
("APPLICATION DERIVATIVES"));			
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following table for any APPLICA			own;
Application No.	Filing Date	Office	
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Page 1 of 2

PATENT ASSIGNMENT MS Docket No.: 337989.01

Attorney Docket No.: MS1- 5346US

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Inventor's Signature Date

Yongguang Zhang

Printed Name in English

Printed Name in Native Language (if other than English)

	PATENT /	ASSIGNMENT	MS Docket No.:	337989.01
e nga ra	999 June 2 & 2 &	and the second of the second o	orney Docket No.:	***************************************
	al joint inventor of application entitled	subject matter (*	_ ("ASSIGNOR") am i 'INVENTION") disclo	the original inventor ised and/or claimed
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("APPLICATION	ON"), which:			
successors a entire and e (and all oth applications, ("APPLICATIC ASSIG REPRESENTA	ASSIGNEE'S legal r Department, Micro Washington 9805; here in parentho Application No. 13 States Patent a Application No., fil was filed on and Trademark Off soft Corporation, a and assigns ("ASSIG xclusive rights, title her applications a in and for the U DN DERIVATIVES"));	epresentatives, opeoft Corporation ! (ASSIGNEE'S LEG ! (ASSIGNEE'S and Off and with and and interest in and patents derinated States, its uthorizes, and with and patents derinated States, its uthorizes, and with and begin and with and	as given Application Office " <u>US - United</u> rporation, on beha I to, and is desirou the INVENTION an ived therefrom, so territories, and al io., filing date, ar	porate Affairs Ity, Redmond, IES), to insert and given ILS — United PLICATION'S I NO States Patent If of itself and its Is of acquiring, the d the APPLICATION Uch as continuing I foreign countries SSIGNEE'S LEGAL and Office into the
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Page 1 of 2

PATENT ASSIGNMENT MS Docket No.: 337989.01

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T. Mossibioda Inventor's Signature	2/5/2013 Date
Thomas Moscibroda Printed Name in English	Printed Name in Native Language
1111111 140111 111 T31411233	(if other than English)