PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
David Michael Callaghan	10/16/2012
Sergey Karamov	10/17/2012
Sanjib Saha	10/12/2012

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:	13656477

CORRESPONDENCE DATA

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Address Line 4: Portland, OREGON 97204

ATTORNEY DOCKET NUMBER:	3382-89521-01
NAME OF SUBMITTER:	Robert F. Scotti

Total Attachments: 6

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PATENT REEL: 029169 FRAME: 0036 0.00 13656

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> PATENT REEL: 029169 FRAME: 0037

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	legal representate Street, Suite 160 customer number insert here in pa	tives, of Klarquist Sparkma 0, Portland, OR 97204, wh or 26119, (ASSIGNEE'S LEGA rentheses (filed on <u>10/19/20</u> y the following Office: Uni e) this APPLICATION's App	no are associated with AL REPRESENTATIVES) to 012, and given Application
· 🗀		and was given App	olication No by and Trademark Office";
successors and entire and exclu (and all other a applications, in	assigns ("ASSIGN usive rights, title pplications and p	Washington Corporation, on EE"), is entitled to, and is cand interest in the INVENT atents derived therefrom, and States, its territories, and	desirous of acquiring, the TON and the APPLICATION such as continuing
to insert the Ap	·	ng date, and Office into th	EE'S LEGAL REPRESENTATIVES e following table for any
Application No).	Filing Date	Office
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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).

Inventor's Signature	10/16/12 Date	
David Michael Callaghan		
Printed Name in English	Printed Name in Native Language (if other than English)	

PATENT ASSIGNMENT

I, Sergey Karamov ("A inventor of subject matter (application entitled "MOBILI ("APPLICATION"), which:		and/or claimed in a pat	
legal repres Street, Suite customer n insert here No. <u>13/656,</u> 4	. ASSIGNOR hereby authorisentatives, of Klarquist Specification, Portland, OR 972 umber 26119, (ASSIGNES in parentheses (filed on 177 by the following Office) this APPLICATION in known;	oarkman, LLP, 121 SW (104, who are associated E'S LEGAL REPRESENTAT 10/19/2012, and given A ce: United States Paten	Salmon d with TIVES) to Application t and
	n and was giveng Office "United States F		
Microsoft Corporation successors and assigns ("A entire and exclusive rights, (and all other applications applications, in and for the ("APPLICATION DERIVATIVE	title and interest in the l and patents derived there United States, its territo	and is desirous of acqu INVENTION and the API efrom, such as continu	uiring, the PLICATION ing
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Page 1 of 2

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ali-	10/17/12
Inventor's Signature	Date
Sergey Karamov	
Printed Name in English	Printed Name in Native Language (if
	other than English)

PATENT ASSIGNMENT

will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Klarquist Sparkman, LLP, 121 SW Salmon Street, Suite 1600, Portland, OR 97204, who are associated with customer number 26119, (ASSIGNEE'S LEGAL REPRESENTATIVES) to insert here in parentheses (filed on 10/19/2012, and given Application No. 13/656,477 by the following Office: United States Patent and Trademark Office) this APPLICATION's Application No. filing date, and Office, when known; was filed on and was given Application No by the following Office "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 REPRESENTATIVE to insert the Application No., filling date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;	I, Sanjib Saha ("ASSIGNOR" of subject matter ("INVENTION") of entitled "MOBILE NAVIGATION TO	disclosed and/or claimed i	
the following Office "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 REPRESENTATIVE to insert the Application No., filling date, and Office into the following table for any	legal representatives, of Klarquist Sparkman, LLP, 121 SW Salmon Street, Suite 1600, Portland, OR 97204, who are associated with customer number 26119, (ASSIGNEE'S LEGAL REPRESENTATIVES) to insert here in parentheses (filed on 10/19/2012, and given Application No. 13/656,477 by the following Office: United States Patent and Trademark Office) this APPLICATION's Application No. filing date, and		
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Application No. Filing Date Office	Application No.	Filing Date	Office

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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).

Inventor's Signature

Sanjib Saha

Printed Name in English

Printed Name in Native Language (if other than English)