502471738 08/26/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Vishal Agarwal	07/03/2013
Sunil P. Gottumukkala	07/09/2013
Arun U. Kishan	07/03/2013
Dave M. McPherson	07/03/2013
Jonathan M. Andes	07/08/2013
Giridharan Sridharan	07/08/2013
Kinshuman Kinshumann	07/09/2013
Adam Damiano	07/02/2013
Salahuddin J. Khan	07/03/2013
Gopinathan Kannan	07/08/2013

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:	13925703

CORRESPONDENCE DATA

Fax Number: 5093238979

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

Phone: 509-324-9256

Email: jenniferp@leehayes.com
Correspondent Name: LEE & HAYES, PLLC

Address Line 1: 601 W. RIVERSIDE AVENUE

PATENT

REEL: 031083 FRAME: 0101

OP \$40,00 13925703

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Address Line 2: SUITE 1400 Address Line 4: SPOKANE, WASHINGTON 99201 ATTORNEY DOCKET NUMBER: MS1-5429US NAME OF SUBMITTER: Jennifer Phipps Signature: Jennifer Phipps/ Date: 08/26/2013 Total Attachments: 20 source=1014721#page1.tif source=1014721#page4.tif source=1014721#page5.tif source=1014721#page6.tif source=1014721#page6.tif source=1014721#page9.tif source=1014721#page9.tif source=1014721#page1.tif	1	1	
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PATENT REEL: 031083 FRAME: 0102

	PATENI	ASSIGNMEN	T MS L	Oocket No.:	339520.01
			Attorney D	ocket No.:	MS1- 5429US
1	Vishal Aç	garwal			he original inventor
or an origin	al joint inventor c	of subject matte	er ("INVENT	ION") disclo	sed and/or claimed
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	and Trademark O	<u>ffice</u>)";			
Micros	soft Corporation,	a Washington	Corporatio	n, on behal	f of itself and its
successors a	nd assigns ("ASSI	GNEE"), is entit	led to, and	l is desirous	of acquiring, the
entire and ex	cclusive rights, tit	le and interest	in the INV	ENTION and	the APPLICATION
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Attorney Docket No.: MS1- 5429US

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

Vishal Agarwal

Printed Name in English

Printed Name in Native Language (if other than English)

PATEN	T ASSIGNMENT	MS Docket No.:	339520.01
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Attorney Docket No.: MS1-5429US

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);

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Inventor's Signature

Sunil P. Gottumukkala

Printed Name in English

Printed Name in Native Language
(if other than English)

PATENT A	ASSIGNMENT MS Do	ocket No.:	339520.01	
	Attorney Do	ocket No.:	MS1- 5429US	
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13/925,703 by the following Office " <u>US – United States Patent</u>				
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applications, in and for the United States, its territories, and all foreign countries				
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Attorney Docket No.: MS1- 5429US

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);

Inventor's Signature	7/3/3 Date
Arun U. Kishan	
Printed Name in English	Printed Name in Native Language (if other than English)

	PATENT	ASSIGNMENT	MS Docket No	339520.01
∣ Dave M. M	IcDharcon	A	Attorney Docket No	
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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);

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Inventor's Signature

Dave M. McPherson

Printed Name in English

Date

Printed Name in Native Language

(if other than English)

PATENT AS	SSIGNMENT	MS Docket	t No.:	339520.01
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Inventor's Signature	7-8-13 Date
Jonathan M. Andes	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT	ASSIGNMENT MS Do	ocket No.:	339520.01
	Attorney Do	ocket No.:	MS1- 5429US
Giridharan S	ridharan ("ASSIG	NOR") am t	he original inventor
or an original joint inventor of	f subject matter ("INVENTI	ON") disclo	sed and/or claimed
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	a Washington Corporatio	n, on beh	alf of itself and its
successors and assigns ("ASSI	<u>-</u>		
entire and exclusive rights, ti			· -
(and all other applications	and patents derived the	erefrom, s	uch as continuing
applications, in and for the	United States, its territor	ies, and a	ll foreign countries
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Application No.	Filing Date	Office	
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Attorney Docket No.: MS1- 5429US

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);

shin dhown	7/8/2013
Inventor's Signature	Date
Giridharan Sridharan	
Printed Name in English	Printed Name in Native Language
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	PATENT A	assignment	MS Docket No.:	339520.01
			torney Docket No.:	
ı Kinsl	human Kinshumann		("ASSEGNOR") am !	the original inventor
or an origina	al joint inventor of	subject matter ("INVENTION") disclo	ised and/or claimed
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Attorney Docket No.: M\$1- \$429U\$

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	Printed Name in English	Printed Name in Native Language (If other than English)

	PATEN	ASSIGNMENT	MS Docket No.:	339520.01
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or an origin		of subject matter	("ASSIGNOR") am : ("INVENTION") disclo	the original inventor osed and∦or claimed
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	13/925,703		Office "US - United !	
	and Trademark C	<u>)ffice</u>)";		
Micro	soft Corporation,	a Washington Co	orporation, on beha	If of itself and its
successors a	ınd assigns ("ASSI	GNEE"), is entitled	d to, and is desirou	s of acquiring, the
entire and e	xclusive rights, tit	le and interest ir	the INVENTION and	the APPLICATION
applications	ner applications	and patents der	rived therefrom, su	ıch as continuing
"ADDITIONS,	In and for the	United States, its	territories, and all	foreign countries
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Attorney Docket No.: MS1- 5429US

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);

Inventor's Signature	#\Z\Z\O\3\Date
Adam Damiano	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT	ASSIGNMENT MS D	ocket No.:	339520.01
	Attorney D	ocket No.:	MS1- 5429US
ISalahuddin .	J. Khan ("ASSIC	SNOR") am t	the original inventor
or an original joint inventor of	subject matter ("INVENT	ON") disclo	sed and/or claimed
in a patent application entitled			
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("APPLICATION"), which:			
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13/925,703	by the following Office "L	JS – United	<u>States Patent</u>
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PATENT ASSIGNMENT MS Docket No.: 339520.01

Attorney Docket No.: MS1- 5429US

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).

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Son h	7/3/2013
Inventor's Signature	Date
Salahuddin J. Khan	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT .	ASSIGNMENT	MS Docket No.:	339520.01
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Attorney Docket No.: MS1-5429US

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Inventor's Signature	7/8/2013 Date
Gopinathan Kannan	
Printed Name in English	Printed Name in Native Language (if other than English)