PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3666593

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK EDWARD SHAW	12/18/2015
MARTHA GEOGHEGAN PETERSON	12/18/2015
WILSON V. VU	12/18/2015
HIEN A. THAI	12/18/2015
ERIC C. PETERSON	12/18/2015

RECEIVING PARTY DATA

Name:	MICROSOFT TECHNOLOGY LICENSING, LLC
Street Address:	ONE MICROSOFT WAY
City:	REDMOND
State/Country:	WASHINGTON
Postal Code:	98052

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14975614

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 425-707-9382

Email: stevensp@microsoft.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	358014.01
NAME OF SUBMITTER:	JOHN OGILVIE
SIGNATURE:	/John Ogilvie/
DATE SIGNED:	12/18/2015

Total Attachments: 10

source=358014-01_Assignment_EricCPETERSON#page1.tif

PATENT REEL: 037334 FRAME: 0784

503619962

```
source=358014-01_Assignment_EricCPETERSON#page2.tif
source=358014-01_Assignment_HienATHAI#page1.tif
source=358014-01_Assignment_MarkEdwardSHAW#page1.tif
source=358014-01_Assignment_MarkEdwardSHAW#page2.tif
source=358014-01_Assignment_MarkEdwardSHAW#page2.tif
source=358014-01_Assignment_MarthaGeogheganPETERSON#page1.tif
source=358014-01_Assignment_MarthaGeogheganPETERSON#page2.tif
source=358014-01_Assignment_WilsonVVU#page1.tif
source=358014-01_Assignment_WilsonVVU#page2.tif
```

PATENT REEL: 037334 FRAME: 0785

inventor of	f cubiect matter ("I	NVENTION") disclosed at	inventor or an original joint nd/or claimed in a patent AGE RACK" ("APPLICATION"),
	ASSIGNEE'S legal is LLC., One Microparentheses (filed No	ASSIGNOR hereby authorepresentative, Microsoft osoft Way, Redmond, AL REPRESENTATIVES), onby	Technology Licensing, Washington 98052 to insert here in and given Application the following this APPLICATION's
	was filed on by the following O	and was given App office "";	olication No
behalf of desirous of right of pr patents de for the DERIVATIV	itself and its succest of acquiring, the entitionity, in the INVENTI erived therefrom, suc United States, its to (ES"));	ssors and assigns ("ASSIO re and exclusive rights, ti ON and the APPLICATION in tas continuing application territories, and all forei	n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ins, in whole or in part, in and ign countries ("APPLICATION
REPRESEN	TATIVES to insert t	authorizes, and required he Application No., filin	ig date, and Office into the
following	table for any APPLICA	TION DERIVATIVES after t	hey are known;
Application		Filing Date	Office

Page 1 of 2

MS Docket No.: 358014.01 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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and

patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("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).

4	
Eric Chilersen	
Inventor's Signature	Date
Eric C. PETERSON	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 358014.01

inventor of	subject matter ("INVENTION")	disclosed	inventor or an original joint and/or claimed in a patent RAGE RACK" ("APPLICATION"),
\boxtimes	will be filed.	ASSIGNOR h	ereby auth	norizes, and requests,
	LLC., One Mic (ASSIGNEE'S LEC parentheses (filed No.	rosoft Way, JAL REPRESE d on	Redmond, NTATIVES), by) this APPLICATION's
	was filed on	and w	as given Ap _l	plication No
	by the following C	Office "'	': '	
behalf of its desirous of a right of prior patents deriv	self and its succestacquiring, the entire ity, in the INVENTIVE therefrom, successed its to the states, its to the states, its to the states.	ssors and ass re and exclusi ON and the AF h as continuin	igns ("ASSIONE rights, tip PPLICATION G application	on limited liability company, on GNEE"), is entitled to, and is itle and interest, including the (and all other applications and ons, in whole or in part, in and ign countries ("APPLICATION
ASSIG	NOR hereby	authorizes,	and requ	uests, ASS§GNEE'S LEGAL
				g date, and Office into the
Application 1	ole for any APPLICA No.	Filing Date	ives after tr	Office
				•

Page 1 of 2

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, ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and

for the United States, its territories, and all foreign countries ("APPLICATION

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).

Seil sai	19/18/2015
Inventor's Signature	Date
Hien A. THAI	
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 358014.01

inventor of	subject matter ("INVENTION") disclosed	al inventor or an original joint and/or claimed in a patent RAGE RACK" ("APPLICATION"),
図	will be filed.	ASSIGNOR hereby auth	orizes, and requests,
	LLC., One Mic (ASSIGNEE'S LEC parentheses (filed No. Office	representative, Microsoft rosoft Way, Redmond, GAL REPRESENTATIVES), d on by ling date, and Office, whe	Washington 98052 to insert here in and given Application the following) this APPLICATION's
	was filed on	and was given App	olication No
	by the following C	Office "";	
behalf of its desirous of right of prior patents deriv	self and its succe acquiring, the enti- rity, in the INVENTI ved therefrom, suc ited States, its t	ssors and assigns ("ASSIG re and exclusive rights, ti ON and the APPLICATION of the as continuing application	n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ns, in whole or in part, in and gn countries ("APPLICATION
REPRESENTA	TIVES to insert t		g date, and Office into the
		TION DERIVATIVES after th	
Application I	чо.	Filing Date	Office
	P-4		
	annonna annonn	A A A A A A A A A A A A A A A A A A A	
LEED'N-1			
		AAAGAAAAAAAAAAAAA	
		!	

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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("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).

Mark Edward Shew- Inventor's Signature	12-18-2015 Date
Mark Edward SHAW	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT A	ASSIGNMENT	MS Docket No.: 358014.01
original joint	inventor of subje		n the original inventor or an lisclosed and/or claimed in a DENSE STORAGE RACK"
	ASSIGNEE'S legal LLC., One Mici (ASSIGNEE'S LEG	ASSIGNOR hereby authorepresentative, Microsoft osoft Way, Redmond, AL REPRESENTATIVES),	Technology Licensing, Washington 98052 to insert here in
	No	by ling date, and Office, when	the following this APPLICATION's
	was filed on by the following O	and was given App	olication No
behalf of its desirous of right of prior patents deriv	self and its succest acquiring, the entile rity, in the INVENTI ved therefrom, suc lited States, its t	isors and assigns ("ASSIC re and exclusive rights, ti ON and the APPLICATION (In as continuing application	n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ns, in whole or in part, in and gn countries ("APPLICATION
REPRESENTA	TIVES to insert the	ne Application No., filin	uests, ASSIGNEE'S LEGAL g date, and Office into the
		TION DERIVATIVES after th	office
Application I	NO.	Filing Date	Onice
		444	
www.manaanaanaanaanaanaanaanaanaanaanaanaana			- CONTRACTOR OF THE CONTRACTOR
			B.A. 190

Page 1 of 2

MS Docket No.: 358014.01

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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("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).

Martha of Peterson	December 18, 2015
Inventor's Signature	Date
Martha Geoghegan PETERSON	
Printed Name in English	Printed Name in Native Language
	(if other than English)

l Wilson V. VU ("ASSIGNOR") am the original inventor or an original joint

ent N"),
on is he nd nd
AL he
4
7

Page 1 of 2

MS Docket No.: <u>358014.01</u>

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, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("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).

	12/18/2015
Inventor's Signature	Date
Wilson V. VU	
Printed Name in English	Printed Name in Native Language
	(if other than English)