505260829 01/03/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: CORRECTIVE ASSIGNMENT

NATURE OF CONVEYANCE: Corrective Assignment to correct the ASSIGNMENT EXECUTION DATE

FOR INVENTOR NICHOLAS GERVASE FAJT previously recorded on Reel 043508 Frame 0722. Assignor(s) hereby confirms the ASSIGNMENT EXECUTION DATE FOR INVENTOR NICHOLAS GERVASE FAJT IS JUNE 24, 2014.

EPAS ID: PAT5307601

CONVEYING PARTY DATA

Name	Execution Date
ROTEM BENNET	06/19/2014
LEWEY GESELOWITZ	06/22/2014
WEI ZHANG	06/17/2014
ADAM G. POULOS	06/17/2014
JOHN BEVIS	07/14/2014
KIM PASCAL PIMMEL	06/20/2014
NICHOLAS GERVASE FAJT	06/24/2014

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:	15696839

CORRESPONDENCE DATA

Fax Number: (425)936-7329

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: 4257079382

Email:usdocket@microsoft.comCorrespondent Name:MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	WHG14304CON1
NAME OF SUBMITTER:	HEIDI LAUMAN

PATENT 505260829 REEL: 048004 FRAME: 0178

SIGNATURE:	/HEIDI LAUMAN/
DATE SIGNED:	01/03/2019

Total Attachments: 18

source=MarkedUpCorrected-Assignment WHG14304CON1#page1.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page2.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page3.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page4.tif source=MarkedUpCorrected-Assignment_WHG14304CON1#page5.tif source=MarkedUpCorrected-Assignment_WHG14304CON1#page6.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page7.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page8.tif source=MarkedUpCorrected-Assignment_WHG14304CON1#page9.tif source=MarkedUpCorrected-Assignment_WHG14304CON1#page10.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page11.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page12.tif source=MarkedUpCorrected-Assignment_WHG14304CON1#page13.tif source=MarkedUpCorrected-Assignment_WHG14304CON1#page14.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page15.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page16.tif source=MarkedUpCorrected-Assignment_WHG14304CON1#page17.tif source=MarkedUpCorrected-Assignment WHG14304CON1#page18.tif

> PATENT REEL: 048004 FRAME: 0179

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4581795

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROTEM BENNET	06/19/2014
LEWEY GESELOWITZ	06/22/2014
WEI ZHANG	06/17/2014
ADAM G. POULOS	06/17/2014
JOHN BEVIS	07/14/2014
KIM PASCAL PIMMEL	06/20/2014
NICHOLAS GERVASE FAJT <u>06/24/2014</u> -	04/24/2014

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:	15696839

CORRESPONDENCE DATA

Fax Number: (425)936-7329

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: usdocket@microsoft.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	341269-US-CNT;WHG14304CON	
NAME OF SUBMITTER:	CATHERINE POLANCE	
SIGNATURE:	/Catherine Polance/	
DATE SIGNED:	09/06/2017	

PATENT 504535088 REEL: 048004 FRAME: 0180

MARKED-UP

Total Attachments: 14

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PATENT REEL: 048004 FRAME: 0181

PATENT ASSIGNMENT MS Docket No.: WHG14304

I <u>Rote</u>	<u>em Bennet</u> ("ASSIGNOR") am the original inventor or an original Joint
inventor of	subject matter ("INVENTION") disclosed and/or claimed in a patent
application e	entitled "HOLOGRAPHIC KEYBOARD DISPLAY" ("APPLICATION"), which:
\boxtimes	will be filed. ASSIGNOR hereby authorizes, and requests,
	ASSIGNEE'S legal representatives, of the Law and Corporate Affairs
	Department, Microsoft Corporation, One Microsoft Way, Redmond,
	Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert
	here in parentheses (filed on July 15, 2014 and given
	Application No. 14/332,334 by the following Office
	Application No., filing date, and Office, when known;
	was filed on and was given Application No
	by the following Office
	u n.

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, 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 hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known:

Application No.	Filing Date	Office
Application No. 15/696,839	September 6, 2017	U.S. Patent and Trademark Office

Page 1 of 2

MS Docket No.: WHG14304

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).

	19/6/14
Inventor's Signature	Date
Rotem Bennet	Cho onto
Printed Name in English	Printed Name in Native Language (if other than English)

	_ewe	ey Geselo	owitz ("A	ASSIGNOR") am	the origina	al invent	or or an	orig	jina	al joint
inventor	of	subject	matter	("INVENTION")	disclosed	and/or	claimed	in	a	patent
applicati	on e	ntitled " <u>H</u>	HOLOGR/	APHIC KEYBOAI	RD DISPLAY	" ("APPLIC	CATION"),	whi	ch:	•

\boxtimes	will	be	filed.	ASSIGNOR	hereby	autho	rizes,	and re	quests,
	ASSI	GNE	E'S legal	representati	ves, of tl	ne Law	and C	orporate	Affairs
	Depa	artm	ent, Micr	osoft Corpo	ration, O	ne Mic	rosoft	Way, Re	dmond,
	Wasi	hingt	ton 9805	2 (ASSIGNEE	'S LEGAL	. REPRE	SENTA	TIVES), t	o insert
	here	in	parenth	eses (filed	on <u>Jul</u>	y 15, 2	014	and	given
	App	licati	on No.	14/332,33	34	by th	ie fo	llowing	Office
)	thi	S	APPLICA	ATION's
	App	licati	on No., f	iling date, a	nd Office	, when	knowi	n;	
	was	filed	on		and was (given A	pplicat	tion No	
			**************	by the follo	wing Off	ice			
	u				99				

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15/696,839	September 6, 2017	U.S. Patent and Trademark Office

Page 1 of 2

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	6/22/2014
Inventor's Signature	Date
Lewey Geselowitz	
Printed Name in English	Printed Name in Native Language
	(if other than English)

1]	<u>Wei Zha</u>	<u>ang</u> ("As	SSIGNOF	₹") am 1	the	original	invento	rora	an origi	nal joint	inve	entor	of
subject	matter	("INVEN	ITION")	disclos	ed	and/or	claimed	in a	patent	applicati	on e	entitle	ed
"HOLOG	RAPHIC	<u>KEYBO</u>	ARD DI	<u>SPLAY</u> "	("Al	PPLICAT	ION"), w	hich					

\boxtimes	will	be	filed.	ASSIGNOR	hereb	y au	ithorize	s, and	d rec	quests,
	ASSI	GNE	E'S legal i	epresentati	ves, of	the l	_aw and	d Corpo	orate	Affairs
	Depa	artm	ent, Micro	osoft Corpo	ration,	One	Micros	oft Way	, Red	lmond,
	Wasl	ningt	ton 9805	2 (ASSIGNEE	'S LEG	AL RE	PRESEN	TATIVE	ES), to	insert
			-	eses (filed						-
	Appl	icati	on No.	14/332,33	34	by	the	follow	ing	Office
)		this	API	PLICA	TION's
	Appl	icati	on No., fi	ling date, a	nd Offi	ce, w	hen kno	own;		
	was	filed	on	&	ınd wa	s give	n Appl	ication	No	
		**********		by the follo	wing C	ffice				
	"				"					

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, 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"));

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Page 1 of 2

MS Docket No.: WHG14304

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lini	6/17/2014
Inventor's Signature	Date
Wei Zhang	一一 一
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Adam G. Poulos</u> ("ASSIGNOR") am the original inventor	or an original join
nventor of subject matter ("INVENTION") disclosed and/or cla	aimed in a paten
application entitled " <u>HOLOGRAPHIC KEYBOARD DISPLAY</u> " ("APPLICAT	TION"), which:
oxtimes will be filed. ASSIGNOR hereby authorizes, ar	nd requests,
ASSIGNEE'S legal representatives, of the Law and Corp	porate Affairs
Department, Microsoft Corporation, One Microsoft Wa	ay, Redmond,
Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIV	/ES), to insert
here in parentheses (filed on July 15, 2014	_ and given
Application No. 14/332,334 by the follow	wing Office
	PPLICATION's
Application No., filing date, and Office, when known;	

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, 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"));

was filed on _____ and was given Application No

_____ by the following Office

ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S LEGAL REPRESENTATIVES to insert the Application No., filing date, and Office into the following table for any APPLICATION DERIVATIVES after they are known;

Application No.	Filing Date	Office
15/696,839	September 6, 2017	U.S. Patent and Trademark Office
,		

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"));

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Alan Pouls	6/17/2014
Inventor's Signature	Date
Adam G. Poulos	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>John Bevis</u> ("ASSIGNOR	") am the origina	inventor or an origi	nal joint inventor of
subject matter ("INVENTION")	disclosed and/or	claimed in a patent	application entitled
"HOLOGRAPHIC KEYBOARD DIS	SPLAY" ("APPLICA"	ΓΙΟΝ"), which:	

\boxtimes	will	be	filed.	ASSIGNOR	hereby	authorizes,	and	requests,
	ASSI	GNE	E'S legal	representati	ves, of th	ne Law and C	orpor	ate Affairs
	Dep	artm	ent, Mic	rosoft Corpo	ration, O	ne Microsoft	Way,	Redmond,
				52 (ASSIGNEE				
	here	in p	arenthe	ses (filed on <u>-</u>	luly 15, 2	014 and g	iven A	pplication
	No.	14/33	32,334	by the followi	ng Office	<u></u>)
	this	APP	LICATIO	N's Applicati	on No., f	filing date, a	nd Of	fice, when
	knov	wn;						
	was	filed	on		ınd was g	given Applica	tion	
	No_	***********	**********************	by the f	ollowing	Office		
	"				99.			

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, 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"));

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September 6, 2017	U.S. Patent and Trademark Office
	Filing Date September 6, 2017

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"));

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	7/14/2014
Inventor's Signature	Date
John Bevis	
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: WHG14304

I <u>Kim Pascal Pimmel</u> ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "<u>HOLOGRAPHIC KEYBOARD DISPLAY</u>" ("APPLICATION"), which:

\boxtimes	will be	filed.	ASSIGNOR	hereby	authorize	es, and	requests,
	ASSIGNE	E'S legal	representati	ves, of th	ne Law an	d Corpora	te Affairs
	Washing	ton 980	rosoft Corpo 52 (ASSIGNEE	'S LEGAL	REPRESEN	ITATIVES),	to insert
			heses (filed , 14/332,33	34	by the) Office
	Applicat	ion No.,	filing date, a	nd Office	, when kn	own;	
	was file	d on		and was (given App	lication No)
			_ by the follo	wing Off	ice		
	и			n,			

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, 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"));

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15/696,839	September 6, 2017	U.S. Patent and Trademark Office
•		

Page 1 of 2

MS Docket No.: WHG14304

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Inventor's Signature

| Color | Color

known;

PATENT ASSIGNMENT

pplication 6	entitle	d " <u>H</u>	OLOGR <i>A</i>	APHIC KEYBO	ARD DISP	LAY" ("APPLIC	CATIO	N"), which:
\boxtimes	will	be	filed.	ASSIGNOR	hereby	authorizes,	and	requests,
	ASSI	GNE	E'S legal	representati	ves, of th	ne Law and C	Corpor	ate Affairs
	Depa	artm	ent, Mic	rosoft Corpo	ration, O	ne Microsoft	Way,	Redmond,
	Wasl	ningt	ton 980	52 (ASSIGNEE	'S LEGAL	REPRESENTA	TIVES), to insert
	here	in p	arenthe	ses (filed on <u>s</u>	July 15, 2	2014 and g	jiven A	application
	No.	14/33	32,334	by the followi	ng Office	<u> </u>)

I Nicholas Gervase Fajt ("ASSIGNOR") am the original inventor or an original joint

this APPLICATION's Application No., filing date, and Office, when

inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent

was filed on	and was given Applicatior
No	by the following Office
"	n.

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, 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"));

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Page 1 of 2

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Inventor's Signature

Date

Nicholas Gervase Fajt

Printed Name in English

Printed Name in Native Language

MS Docket No.: WHG14304

(if other than English)