505178237 11/06/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5225005

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOUNG S. KIM	09/17/2018
SCOTT D. SCHENONE	10/02/2018
TIMOTHY G ESCOLIN	10/14/2018
PANOS C PANAY	09/12/2018

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:	16058783

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.

Email: usdocket@microsoft.com

Correspondent Name: MICROSOFT CORPORATION

Address Line 1: ONE MICROSOFT WAY

Address Line 4: REDMOND, WASHINGTON 98052

ATTORNEY DOCKET NUMBER:	404851-US-NP
NAME OF SUBMITTER:	AMY WALLACE
SIGNATURE:	/Amy Wallace/
DATE SIGNED:	11/06/2018

Total Attachments: 8

source=404851-US-NP_Assignment_KIM#page1.tif

 $source = 404851 - US - NP_Assignment_KIM\#page2.tif$

source=404851-US-NP_Assignment_SCHENONE#page1.tif source=404851-US-NP_Assignment_SCHENONE#page2.tif

PATENT 505178237 REEL: 047427 FRAME: 0176

source=404851-US-NP_Assignment_ESCOLIN#page1.tif source=404851-US-NP_Assignment_ESCOLIN#page2.tif source=404851-US-NP_Assignment_PANAY#page1.tif source=404851-US-NP_Assignment_PANAY#page2.tif

> PATENT REEL: 047427 FRAME: 0177

PATENT ASSIGNMENT MS Docket No.: MS404851-US-NP

I <u>Young S. KIM</u> ("ASSIGNOR") am the original inventor or an original joint invent	tor
of subject matter ("INVENTION") disclosed and f or claimed in a patent application entitles.	ed
" <u>HINGED DEVICE AND ASSOCIATED INPUT DEVICE</u> " ("APPLICATION"), which:	

	will be filed. ASSIGNOR hereby authorizes, and requests,
	ASSIGNEE'S legal representative, Microsoft Technology Licensing,
	LLC., One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S
	LEGAL REPRESENTATIVES), to insert here in parentheses (filed
	on and given Application No by
	the following Office
	APPLICATION's Application No., filing date, and Office, when known;
\times	was filed on August 8, 2018 and was given Application No
	16/058,783 by the following Office "USPTO";

Microsoft Technology Licensing, LLC, a Washington limited liability company, 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

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).

Timo	9/7/2018
Inventor's signature	Date
Young S. KIM	
Printed Name in English	Printed Name in Native Language

PATENT ASSIGNMENT MS Docket No.: MS404851-US-NP

inventor of subject m	atter ("INVENTION") dis	ne original inventor or an original joint sclosed and/or claimed in a patent <u>CIATED INPUT DEVICE</u> " ("APPLICATION"),
ASSIGNEE'S LLC., One I LEGAL REI on the follow	S legal representative, Microsoft Way, Redmond, PRESENTATIVES), to insection Appropriate Office	by authorizes, and requests, Microsoft Technology Licensing, , Washington 98052 (ASSIGNEE'S ert here in parentheses (filed pplication No
	on <u>August 8, 2018</u> and wa 33 by the following Office	
behalf of itself and its su of acquiring, the entire priority, in the INVENTIC derived therefrom, such	and assigns ("A! and exclusive rights, tit ON and the APPLICATION as continuing application	ashington limited liability company, on SSIGNEE"), is entitled to, and is desirous tle and interest, including the right of (and all other applications and patents ons, in whole or in part, in and for the atries ("APPLICATION DERIVATIVES"));
to insert the Applicatio	•	es, ASSIGNEE'S LEGAL REPRESENTATIVES Office into the following table for any
Application No.	Filing Date	Office

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).

Inventor's Signature	
Scott D. SCHENONE Printed Name in English	Printed Name in Native Language
Trinted Name in Linguish	(if other than English)

PATENT ASSIGNMENT MS Docket No.: MS404851-US-NP

inventor of subje	ect matter ("INVE	NTION") disclosed a	l inventor or an original joir nd/or claimed in a pater <u>PUT DEVICE</u> " ("APPLICATION"
ASSIC LLC., LEGA on _ the	GNEE'S legal repro One Microsoft Wa L REPRESENTATIN following Office	esentative, Microsoft - ly, Redmond, Washingt /ES), to insert here and given Application	rizes, and requests, Technology Licensing, con 98052 (ASSIGNEE'S in parentheses (filed No by) this nd Office, when known;
		2018 and was given A owing Office " <u>USPTO</u> ";	pplication No
behalf of itself and of acquiring, the priority, in the INV derived therefrom	lits successors and entire and exclusi ENTION and the A , such as continui	d assigns ("ASSIGNEE"), ve rights, title and in PPLICATION (and all o ng applications, in wh	limited liability company, on is entitled to, and is desirous terest, including the right of the applications and patent tole or in part, in and for the PLICATION DERIVATIVES"));
ASSIGNOR F	nereby authorizes,	and requests, ASSIGN	EE'S LEGAL REPRESENTATIVE
to insert the Appl APPLICATION DERI			the following table for an
Application No.		ng Date	Office

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).

Inventor's Signature

Timothy G. ESCOLIN

Printed Name in English

Printed Name in Native Language (if other than English)

PAIENIA	22IAMMENI MPTA	DCK6f 140".
I <u>Panos C. PANAY</u> ("ASSI inventor of subject matter ("I application entitled " <u>HINGED DE</u>) which:	NVENTION") disclosed a	
ASSIGNEE'S legal r LLC., One Microsofi LEGAL REPRESENT. on the following Of	ASSIGNOR hereby author epresentative, Microsoft of the Way, Redmond, Washingth ATIVES), to insert here and given Application of the filling date, are strong to the filling date, and the filling date, are strong to the filling date, are strong to the filling date, are strong to the filling date, and the filling date, are strong to the filling date.	Technology Licensing, on 98052 (ASSIGNEE'S in parentheses (filed Noby
•	t 8, 2018 and was given A following Office " <u>USPTO</u> ";	
behalf of itself and its successors of acquiring, the entire and exceptionity, in the INVENTION and the derived therefrom, such as contunited States, its territories, and ASSIGNOR hereby authority to insert the Application No., fire	and assigns ("ASSIGNEE"), clusive rights, title and in the APPLICATION (and all o inuing applications, in wh all foreign countries ("API zes, and requests, ASSIGN illing date, and Office into	terest, including the right of ther applications and patents tole or in part, in and for the PLICATION DERIVATIVES")); EE'S LEGAL REPRESENTATIVES
APPLICATION DERIVATIVES after	they are known; Filing Date	Office
Application No.	Ting Date	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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).

Inventor's Signature

Panos C. PANAY

Printed Name in English

Date

Printed Name in Native Language

(if other than English)