504405013 06/08/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIMOTHY MATHEW G. ESCOLIN	03/21/2017
BYUNGKWAN MIN	03/02/2017
JOSHUA C. GRANT	03/01/2017
AASHISH NATARAJA	03/07/2017
TSANG CHEUNG	05/17/2017

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:	15617560

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.

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Correspondent Name: ARENT FOX LLP **Address Line 1:** 1717 K STREET, NW

Address Line 4: WASHINGTON, D.C. 20006

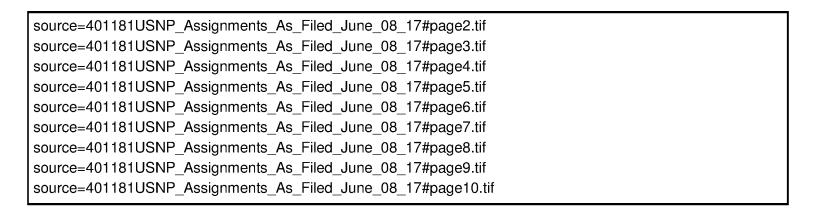
ATTORNEY DOCKET NUMBER:	037834.00065/401181-US-NP
NAME OF SUBMITTER:	DAVID M. NOONAN
SIGNATURE:	/David M. Noonan/
DATE SIGNED:	06/08/2017

Total Attachments: 10

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PATENT REEL: 042654 FRAME: 0897

504405013



PATENT REEL: 042654 FRAME: 0898

I <u>Timothy Mathew G. ESCOLIN</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>PATTERN FOR INCREASED COEFFICIENT OF FRICTION OF NPUT DEVICES</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 US – United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;
was filed on <u>January 13, 2017</u> and was given Application No 62/446079 by the following Office " <u>US</u> ";

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"));

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APPLICATION DERIVATIVES are		
Application No.	Filing Date	Office
15/617560	June 08, 2017	US

Page 1 of 2

MS Docket No.: 401181-US-PSP

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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, 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	03/21/17
Timothy Mathew G. Escolin Printed Name in English	Printed Name in Native Language (if other than English)

I <u>Byungkwan MIN</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>PATTERN FOR INCREASED COEFFICIENT OF FRICTION OF INPUT DEVICES</u> " ("APPLICATION"), which:
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inne	03.02.20/7	
Inventor's Signature	Date	
Byungkwan Min		
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

PATENT ASSIGNMENT	MS Docket No.: 401181-US-PSP
I <u>Joshua C. GRANT</u> ("ASSIGNOR") am the origi	nal inventor or an original joint
inventor of subject matter ("INVENTION") disclosed	and/or claimed in a patent
application entitled "PATTERN FOR INCREASED COEFF	ICIENT OF FRICTION OF INPUT
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ASSIGNEE'S legal representative, Microsof	ft Technology Licensing,
LLC, One Microsoft Way, Redmond, Washir	igton 98052 (ASSIGNEE'S
LEGAL REPRESENTATIVES), to insert her	e in parentheses (filed
on and given Application	on No by
the following Office <u>US - United States Pate</u>	nt and Trademark Office)
this APPLICATION's Application No., filing	g date, and Office, when
known;	
V filed an lengan, 12, 2017 and was given	on Application No

 \boxtimes was filed on January 13, 2017 and was given Application No 62/446079 by the following Office "US";

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"));

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June 08, 2017	US	
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Page 1 of 2

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Inventor's Signature

øshua C. Grant

Printed Name in English

Daté

Printed Name in Native Language (if other than English)

Page 2 of 2

MS Docket No.: 401181-US-PSP

I <u>Aashish NATARAJA</u> ("An inventor of subject matter ("I application entitled " <u>PATTERN</u> DEVICES" ("APPLICATION"), which	NVENTION") disclosed a FOR INCREASED COEFFICI	
ASSIGNEE'S legal r LLC, One Microsoft LEGAL REPRESENT, on the following Office	ASSIGNOR hereby author epresentative, Microsoft Way, Redmond, Washingt ATIVES), to insert here and given Application to US – United States Patent Application No., filing designs.	Technology Licensing, son 98052 (ASSIGNEE'S in parentheses (filed No by and Trademark Office)
	<u>y 13, 2017</u> and was given following Office " <u>US</u> ";	Application No
Microsoft Technology Lice behalf of itself and its successors of acquiring, the entire and exc priority, in the INVENTION and the derived therefrom, such as cont United States, its territories, and	and assigns ("ASSIGNEE"), clusive rights, title and in ne APPLICATION (and all o inuing applications, in wh	terest, including the right of ther applications and patents oole or in part, in and for the
ASSIGNOR hereby authorize to insert the Application No., final APPLICATION DERIVATIVES after	ling date, and Office into	EE'S LEGAL REPRESENTATIVES the following table for any
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Page 1 of 2

AFDOCS/14469769.1

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N- AM Inventor's Signature	02/07/2017 Date
Aashish Nataraja	
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATENT ASSIGNMENT	MS Docket No.: 401181-US-PSP
inventor of application of	ang CHEUNG ("ASSIGNOR") am the origina subject matter ("INVENTION") disclosed entitled <u>"PATTERN FOR INCREASED COEFFIC</u> PPLICATION"), which:	and/or claimed in a patent
	will be filed. ASSIGNOR hereby authors assigned and selection of the following Office US – United States Patenthis APPLICATION's Application No., filing known;	Technology Licensing, gton 98052 (ASSIGNEE'S in parentheses (filed n No by tand Trademark Office)
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Muzin	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	May17, 2017
Inventor's Signature	Date
Tsang CHEUNG	张 峥
Printed Name in English	Printed Name in Native Language (if other than English)

Page 2 of 2

RECORDED: 06/08/2017