504800716 03/01/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4847448

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN ALLEN TARDIF	01/17/2018
JOSHUA OWEN MILLER	02/21/2018
JEFFREY N. MARGOLIS	03/01/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15870838

CORRESPONDENCE DATA

Fax Number: (425)936-7329

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Address Line 2: PATENT GROUP DOCKETING DEPT Address Line 4: **REDMOND, WASHINGTON 98052**

ATTORNEY DOCKET NUMBER:	401757A-US-CIP
NAME OF SUBMITTER:	VLADIMIR A. KOZYREV
SIGNATURE:	/Vladimir A. Kozyrev/
DATE SIGNED:	03/01/2018

Total Attachments: 6

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PATENT REEL: 045082 FRAME: 0148 504800716

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> PATENT REEL: 045082 FRAME: 0149

inventor of application e	subject matter (ntitled " <u>MEMS SCA</u> will be filed. ASSIGNEE'S legal LLC, One Microso LEGAL REPRESENT the following Offi	"INVENTION") disclose NNING DISPLAY DEVICE ASSIGNOR hereby representative, Micro ft Way, Redmond, War "ATIVES), to insert her and given Applicat ce	iginal inventor or an orised and/or claimed in <u>CE</u> " ("APPLICATION"), which authorizes, and requestions of the second s	a patent ch: ests, ing, EE'S n by this
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desirous of a right of prior patents deriv	acquiring, the enti ity, in the INVENTI red therefrom, suc ited States, its	re and exclusive righ ON and the APPLICAT h as continuing appli	'ASSIGNEE"), is entitled ts, title and interest, incidention of the contract o	luding the ations and art, in and
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MS Docket No.: 401757A-US-CIP

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).

al Ma all	1/10/18
Inventor's Signature	Date
John Allen TARDIF	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 401757A-US-CIP

inventor of	subject matter	"ASSIGNOR") am the or ("INVENTION") disclos NNING DISPLAY DEVIC	ed and/or claimed	l in a patent
	ASSIGNEE'S legal LLC, One Microso LEGAL REPRESENT the following Off	ASSIGNOR hereby a representative, Micro oft Way, Redmond, Was FATIVES), to insert here and given Applicati ice	soft Technology Lid hington 98052 (ASS in parentheses (file on No.	censing, IGNEE'S id on by) this
	known;			
Micros behalf of its desirous of a right of prior patents deriv	15/870,838 by the soft Technology Line is successed and its successed acquiring, the entity, in the INVENTING therefrom, successed theres, its	ary 12, 2018 and was go ne following Office " <u>US</u> censing, LLC, a Washin issors and assigns ("A re and exclusive right ON and the APPLICATION th as continuing application	PTO "; gton limited liability SSIGNEE"), is entitles, title and interest, ON (and all other ap	y company, on ed to, and is including the oplications and in part, in and
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MS Docket No.: 401757A-US-CIP

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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	40e-212112018
Inventor's Signature	Date
Joshua Owen MILLER	
Printed Name in English	Printed Name in Native Language
	(if other than English)

inventor of application e	subject matter of the subject matter of the subject matter of the subject of the subject of the subject of the following Office of the subject of the subjec	("INVENTION") disclose NNING DISPLAY DEVICE ASSIGNOR hereby a representative, Micros ft Way, Redmond, Wasl [ATIVES), to Insert here and given Applications	ginal inventor or an original join of and/or claimed in a paten of ("APPLICATION"), which: of Technology Licensing, hington 98052 (ASSIGNEE'S in parentheses (filed on on No
	APPLICATION's A known;	Application No., filing	date, and Office, when
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behalf of its desirous of a right of prior patents deriv	elf and its succe acquiring, the enti ity, in the INVENTI red therefrom, suc ted States, its	ssors and assigns ("A re and exclusive rights ION and the APPLICATION In as continuing applications	gton limited liability company, or SSIGNEE"), is entitled to, and instituted to and instituted to and institute and institute and institute and all other applications and ations, in whole or in part, in and oreign countries ("APPLICATION
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MS Docket No.: 401757A-US-CIP

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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).

Jeffrey N. MARGOLIS

Printed Name in English

)ate /

Printed Name in Native Language

(if other than English)