504809085 03/07/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4855818

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL EDWARD SAMPLES	03/06/2018
ALEXANDRU OCTAVIAN BALAN	11/28/2017
SALIM SIRTKAYA	11/22/2017
VUK JOVANOVIC	11/22/2017
FILIP PANJEVIC	11/22/2017
TARAS KHAPKO	11/22/2017
RUVEN JAIME RIVERA III	01/24/2018

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:	15826575

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: ASSAL MEFTAHI

ONE MICROSOFT WAY Address Line 1:

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

ATTORNEY DOCKET NUMBER:	403197-US-NP
NAME OF SUBMITTER:	VLADIMIR A. KOZYREV
SIGNATURE:	/Vladimir A. Kozyrev/
DATE SIGNED:	03/07/2018

PAIENI REEL: 045137 FRAME: 0015 504809085

Total Attachments: 14 source=403197-US-NP Executed Assignments#page1.tif source=403197-US-NP Executed Assignments#page2.tif source=403197-US-NP Executed Assignments#page3.tif source=403197-US-NP Executed Assignments#page4.tif source=403197-US-NP Executed Assignments#page5.tif source=403197-US-NP Executed Assignments#page6.tif source=403197-US-NP Executed Assignments#page7.tif source=403197-US-NP Executed Assignments#page8.tif source=403197-US-NP Executed Assignments#page9.tif source=403197-US-NP Executed Assignments#page10.tif source=403197-US-NP Executed Assignments#page11.tif source=403197-US-NP Executed Assignments#page12.tif source=403197-US-NP Executed Assignments#page12.tif source=403197-US-NP Executed Assignments#page13.tif source=403197-US-NP Executed Assignments#page13.tif

PATENT REEL: 045137 FRAME: 0016

MS Docket No.: 403197-US-NP

I <u>Michael Edward SAN</u> joint inventor of subject ma application entitled " <u>CALIBI</u> ("APPLICATION"), which:	atter ("INVENTION) am the original inve ") disclosed and/or ci <u>O CAMERAS AND H</u>	laimed in a meaning
LLC, One Micro LEGAL REPRESE	ar representative, soft Way, Redmon NTATIVES), to inse and given An	reby authorizes, and Microsoft Technology d, Washington 98052 rt here in parentheses plication No.	y Licensing, (ASSIGNEE'S (filed on
rue ronowing O	itice	filing date, and Of) thic
⊠ was filed on <u>Nov</u> 1 <u>5/826,575</u> by i	r <u>ember 29, 2017</u> a the following Offic	ind was given Applicat e " <u>USPTO</u> ";	ion No
Microsoft Technology Lebels of itself and its successive desirous of acquiring, the entright of priority, in the INVENT patents derived therefrom, sufor the United States, its DERIVATIVES"));	essors and assigi fire and exclusive TON and the APPL th as continuing a	ns ("ASSIGNEE"), is en rights, title and intere ICATION (and all other IDDIcations in whole	ntitled to, and is est, including the applications and
ASSIGNOR hereby REPRESENTATIVES to insert to following table for any APPLICATION	he Application A	lo filing data and	Office (man a)
Application No.	Filing Date	Office	

Page 1 of 2

MS Docket No.: 403197-US-NP

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"));

725	
Inventor's Signature	3/6//8 Date
Michael Edward SAMPLES	Date
Printed Name In English	Printed Name in Native Language
	(if Other than Fnolich)

MS Docket No.: 403197-US-NP

I <u>Alexandru Octavian</u> joint inventor of subject m application entitled " <u>CALIB</u> ("APPLICATION"), which:	natter ("INVENTION")		ned in a patent
ASSIGNEE'S le LLC, One Micro LEGAL REPRESI November 29, the following (gal representative, M psoft Way, Redmond, ENTATIVES), to insert <u>2017</u> and given Appli Office	by authorizes, and licrosoft Technology L Washington 98052 (AS here in parentheses (finication No. 15/826,575)	lcensing, SSIGNEE'S led on by) this
☐ was filed on _ by the followin	and wa	s given Application No	,
Microsoft Technology behalf of itself and its su- desirous of acquiring, the e right of priority, in the INVE patents derived therefrom, to for the United States, it DERIVATIVES"));	ccessors and assigns intire and exclusive ri NTION and the APPLIC such as continuing ap	ights, title and interes ATION (and all other a plications, in whole or	itled to, and is t, including the applications and r in part, in and
ASSIGNOR hereby REPRESENTATIVES to insert following table for any APPLI	the Application No		
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")):

Balen	11/28/20/3-
Inventor's Signature	Date
Alexandru Octavian BALAN	
Printed Name in English	Printed Name in Native Language
	(if other than English)

I <u>Salim SIRTKAYA</u> ("A <u>!</u>	SSIGNOR") am the origina	al inventor or an original joint
inventor of subject matter	("INVENTION") disclosed	and/or claimed in a patent
		RAS AND HANDHELD OBJECT"
("APPLICATION"), which:		
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	oft Way, Redmond, Washii	
	TATIVES), to insert here in	
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by the following	Office "	P
Microsoft Technology L	icensing, LLC, a Washingt	on limited liability company, on
		IGNEE"), is entitled to, and is
		title and interest, including the
		(and all other applications and
		ons, in whole or in part, in and
		eign countries ("APPLICATION
DERIVATIVES"));		
ASSIGNOR hereby	authorizes, and rec	juests, ASSIGNEE'S LEGAL
		ng date, and Office into the
following table for any APPLIC		
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MS Docket No.: 403197-US-NP

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"));

Saline-	11/22/2017	
Inventor's Signature	Date	
Salim SIRTKAYA	Solim SIRTKAYA	
Printed Name in English	Printed Name in Nativ	e Language
	(if other than English)	

PATENT ASSIGNMENT	Γ MS Docket	No.: <u>403197-US-NP</u>
I <u>Vuk JOVANOVIC</u> ("ASS inventor of subject matter (application entitled " <u>CALIBRAT</u> ("APPLICATION"), which:	"INVENTION") disclosed	·
ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESENT November 29, 201 the following Office	ASSIGNOR hereby auth representative, Microsoft ft Way, Redmond, Washing ATIVES), to insert here in part of and given Application Notes the proposed of the pro	Technology Licensing, gton 98052 (ASSIGNEE'S parentheses (filed on No. 15/826,575 by
	and was given . Office "	
Microsoft Technology Licebehalf of itself and its successive desirous of acquiring, the entity right of priority, in the INVENTIFE patents derived therefrom, such for the United States, its to DERIVATIVES"));	ssors and assigns ("ASSIO re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	tle and interest, including the (and all other applications and ns, in whole or in part, in and
ASSIGNOR hereby a REPRESENTATIVES to insert the following table for any APPLICA	ne Application No., filin	_
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"));

Inventor's Signature	11/22/2017 Date	
Vuk JOVANOVIC		
Printed Name in English	Printed Name in Native Language (if other than English)	

PATENT ASSIGNMENT	Γ MS Docket	No.: <u>403197-US-NP</u>
I <u>Filip PANJEVIC</u> ("ASSIC inventor of subject matter (application entitled " <u>CALIBRAT</u> ("APPLICATION"), which:	"INVENTION") disclosed	•
ASSIGNEE'S legal LLC, One Microsof LEGAL REPRESENT November 29, 201 the following Offic	ASSIGNOR hereby auth representative, Microsoft ft Way, Redmond, Washing ATIVES), to insert here in part of and given Application No., filing da	Technology Licensing, gton 98052 (ASSIGNEE'S parentheses (filed on No. 15/826,575 by this
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Microsoft Technology Lice behalf of itself and its success desirous of acquiring, the entire right of priority, in the INVENTIP patents derived therefrom, successfor the United States, its to DERIVATIVES"));	ssors and assigns ("ASSIO re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	tle and interest, including the (and all other applications and ns, in whole or in part, in and
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"));

FULL PAIRIT	11/22/2017
Inventor's Signature	Date
Filip PANJEVIC	Filip Panjević
Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT	MS Docket	No.: <u>403197-US-NP</u>
I <u>Taras KHAPKO</u> ("ASSIGN inventor of subject matter ("II application entitled " <u>CALIBRATIO</u> ("APPLICATION"), which:	NVENTION") disclosed	
ASSIGNEE'S legal ro LLC, One Microsoft LEGAL REPRESENTA' November 29, 2017 the following Office	ASSIGNOR hereby auth epresentative, Microsoft Way, Redmond, Washing TIVES), to insert here in part and given Application No., filing da	Technology Licensing, gton 98052 (ASSIGNEE'S parentheses (filed on No. <u>15/826,575</u> by) this
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Microsoft Technology Lice behalf of itself and its success desirous of acquiring, the entire right of priority, in the INVENTIO patents derived therefrom, such for the United States, its te DERIVATIVES"));	ors and assigns ("ASSIO and exclusive rights, ti N and the APPLICATION as continuing applicatio	tle and interest, including the (and all other applications and ons, in whole or in part, in and
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	Filing Date	Office

MS Docket No.: <u>403197-US-NP</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"));

Taras Khapko Inventor's Signature	
Taras KHAPKO	Topac Xanko
Printed Name in English	Printed Name in Native Language
	(if other than English)

MS Docket No.: 403197-US-NP

joint invent	or of subject ma entitled <u>"CALIBR</u>	itter ("INVENTION")	disclosed and/or	entor or an origina claimed in a paten HANDHELD OBJECT
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behalf of its desirous of a right of prior patents deriv	ielf and its succacquiring, the entity, in the INVEN red therefrom, suited States, its	essors and assigr tire and exclusive TION and the APPLI ICh as continuing a	is ("ASSIGNEE"), is rights, title and int CATION (and all oth pplications, in who	ability company, on entitled to, and is erest, including the ner applications and le or in part, in and ries ("APPLICATION
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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"));

Jh-	1/24/2018
Inventor's Signature	Date
Ruven Jaime RIVERA III	
Printed Name in English	Printed Name in Native Language
	(If other than English)