504221406 02/09/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAYMOND KIRK PRICE	01/26/2017
MICHAEL BLEYER	01/26/2017
DENIS DEMANDOLX	01/26/2017
JIAN ZHAO	02/08/2017

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:	15422400

CORRESPONDENCE DATA

Fax Number: (650)838-4350

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Email: usdocket@microsoft.com
Correspondent Name: PERKINS COIE LLP

Address Line 1: P.O. BOX 1247

Address Line 4: SEATTLE, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER:	041827-8179.US01
NAME OF SUBMITTER:	LARA M. NELSON
SIGNATURE:	/Lara M. Nelson/
DATE SIGNED:	02/09/2017

Total Attachments: 8

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PATENT 504221406 REEL: 041218 FRAME: 0450

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> PATENT REEL: 041218 FRAME: 0451

PATENT ASSIGNMENT

I Raymond Kirk Price ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Alternating Frequency Captures for Time of Flight Depth Sensing" ("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 and given February 1, 2017 on No. 15/422,400 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 _____ and was given Application No ______ by the following Office 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")): ASSIGNEE'S LEGAL ASSIGNOR hereby authorizes. and requests. 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

Page 1 of 2

41827-8179.US01/134260079.1

MS Docket No.: 401131-US-NP

PATENT.	ASSIGNMENT	MS	Docket No.:	401131-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"));

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	1/26/2017 Date
Raymond Kirk Price	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT

MS Docket No.: 401131-US-NP

	entitled " <u>Alternatin</u>		and/or claimed in a patent r Time of Flight Depth Sensing"
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	on February No. 15/422,400 Patent and Trade	y 1, 2017 and by the following Ofemark Office) this APPLIC	given Application fice <u>US - United States</u>
		and was giver by the following Offic ";	• •
behalf of its desirous of a right of prior patents deriv	self and its succe acquiring, the enti rity, in the INVENTI ved therefrom, suc ited States, its	essors and assigns ("ASS ire and exclusive rights, i ION and the APPLICATION th as continuing applicati	on limited liability company, on IGNEE"), is entitled to, and is title and interest, including the land all other applications and ons, in whole or in part, in and eign countries ("APPLICATION")
DERIVATIVES) <i>))</i> ,		
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Page 1 of 2

41827-8179.US01/134260087.1

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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"));

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<u></u>	112612017
Inventor's Signature	Date
Michael Bleyer Printed Name in English	Printed Name in Native Language
	(if other than English)

PATENT ASSIGNMENT

MS Docket No.: 401131-US-NP I Denis Demandolx ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Alternating Frequency Captures for Time of Flight Depth Sensing" ("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 February 1, 2017 on and given No. 15/422,400 by the following Office <u>US - United States</u> Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known; was filed on _____ and was given Application No _____ by the following Office 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	.,
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41827-8179.US01/134260108.1

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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")):

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Mandah	01 26 2017
Inventor's Signature	01-26-2017 Date
Denis Demandolx	
Printed Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT MS Docket No.: 401131-US-NP

subject matt	er ("INVENTION") d	isclosed and/or claimed in	or an original joint inventor of n a patent application entitled oth Sensing" ("APPLICATION"),
	ASSIGNEE'S legal LLC, One Microso LEGAL REPRESENT on No. Patent and Trade	ASSIGNOR hereby auth representative, Microsoft ft Way, Redmond, Washing TATIVES), to insert here and by the following Offimark Office this APPLICAT ffice, when known;	Technology Licensing, pton 98052 (ASSIGNEE'S in parentheses (filed given Application ce <u>US – United States</u>
		uary 1, 2017 and was given e following Office "US – Un ';	
behalf of its desirous of a right of prior patents deriv	self and its succe acquiring, the enti- rity, in the INVENTI yed therefrom, suc- ited States, its t	ssors and assigns ("ASSIG re and exclusive rights, ti ON and the APPLICATION of h as continuing application	n limited liability company, on GNEE"), is entitled to, and is tle and interest, including the (and all other applications and ns, in whole or in part, in and gn countries ("APPLICATION
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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).

Jian The	02/08/2017	
Inventor's Signature	Date	
Jian Zhao	走建	
Printed Name in English	Printed Name in Native Language	
	(if other than English)	

RECORDED: 02/09/2017