PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3518693

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOUHONG LU	09/06/2015
CHUN BENG GOH	09/08/2015
DOUGLAS L. BECK	09/08/2015
JIA HUA	09/08/2015
ILYA KHOROSH	09/08/2015

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:	14848703

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, ashley@cuttingedgepatents.com

Correspondent Name: ASSAL MEFTAHI

Address Line 1: ONE MICROSOFT WAY

Address Line 2: PATENT GROUP DOCKETING DEPARTMENT

Address Line 4: REDMOND, WASHINGTON 98052

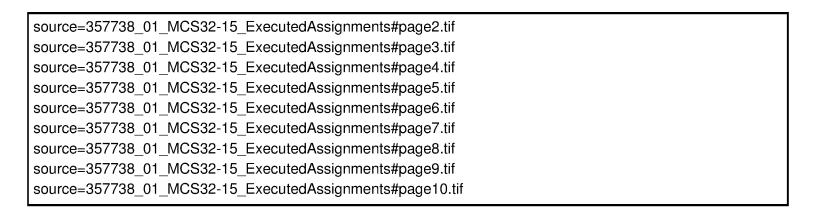
ATTORNEY DOCKET NUMBER:	357738.01
NAME OF SUBMITTER:	KATRINA A. LYON
SIGNATURE:	/Katrina A. Lyon/
DATE SIGNED:	09/09/2015

Total Attachments: 10

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PATENT REEL: 036524 FRAME: 0156

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PATENT REEL: 036524 FRAME: 0157

	PATENT	ASSIGNMENT	MS Docket No.: <u>357738.01</u>
ı	·Yo	ouhona Lu	("ASSIGNOR") am the original
inventor or a claimed in a	n original joint in patent application	ventor of subject matter	("INVENTION") disclosed and/or PHONE PLACEMENT FOR SOUND
	will be filed.	ASSIGNOR hereby au	uthorizes, and requests,
	LLC., One Mic (ASSIGNEE'S LEC parentheses (file No. 14/848	crosoft Way, Redmor	this APPLICATION's
		and was give	
behalf of its desirous of a right of prior patents deriv	self and its succe acquiring, the enti rity, in the INVENT wed therefrom, suc ited States, its	essors and assigns ("As ire and exclusive rights ION and the APPLICATIO th as continuing applica	pton limited liability company, or SSIGNEE"), is entitled to, and is title and interest, including the N (and all other applications and tions, in whole or in part, in and reign countries ("APPLICATION
REPRESENTA	TIVES to insert t		equests, ASSIGNEE'S LEGAL ling date, and Office into the r they are known;
Application I	No.	Filing Date	Office
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Page 1 of 2

MS Docket No.: <u>357738.01</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"));

	9-6-2015
Inventor's Signature	Date
YOUHONG LU	
Youhong Lu	Printed Name in Native Language
Printed Name in English	(if other than English)

PATENT ASSIGNMENT MS Docket No.: 357738.01 Chun Beng Goh ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "_____MICROPHONE PLACEMENT FOR SOUND SOURCE DIRECTION ESTIMATION ... " ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, Microsoft Way, Redmond, Washington LEGAL REPRESENTATIVES), to (ASSIGNEE'S insert here in parentheses (filed on 2015-09-09 and given Application by 14/848,703 the following Office No. USPTO) 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"))**; hereby authorizes. and requests. **ASSIGNEE'S** ASSIGNOR

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).

Buy	Sep 8, 2015	
Chun Beng Goh	Date	
Chun Beng Goh	Printed Name in Native Language	
Printed Name in English	(if other than English)	

MS Docket No.: <u>357738.01</u>

	PATENT A	ASSIGNMENT	MS Docket No.: <u>357738.01</u>
I	D	ouglas L. Beck	("ASSIGNOR") am the
and/or claim	ntor or an original led in a patent ap	joint inventor of subject n	natter ("INVENTION") disclosed IICROPHONE PLACEMENT FOR
	ASSIGNEE'S legal LLC., One Mic (ASSIGNEE'S LEC parentheses (filed No. 14/848	ASSIGNOR hereby authorepresentative, Microsoft rosoft Way, Redmond, AL REPRESENTATIVES), on 2015-09-09 by the TO thing date, and Office, whe	Technology Licensing, Washington 98052 to insert here in and given Application following Office his APPLICATION's
		and was given by the following Office ";	Application No
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 ("ASSIO re and exclusive rights, ti ON and the APPLICATION h as continuing applicatio	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 ign countries ("APPLICATION
REPRESENTA	TIVES to insert t	•	uests, ASSIGNEE'S LEGAL g date, and Office into the ney are known;
Application I		Filing Date	Office

Page 1 of 2

PATENT

REEL: 036524 FRAME: 0162

MS Docket No.: <u>357738.01</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"));

Inventor's Signature	9/8/15 Date
Qg	
DOVOLAS L. BECK	
Douglas L. Beck	Printed Name in Native Language
Printed Name in English	(if other than English)

	PATENT A	ASSIGNMENT	M	S Docket No.:	357738.01
I	<u>Ji</u>	a Hua	("ASS	IGNOR") am	the original
inventor or a	n original joint inv	entor of subject	ct matter ("INV	ENTION") disc	losed and/or
	patent application				
SOURCE DIRE	CTION ESTIMATIO	N" ("APPLIC	CATION"), whic	h:	
		,			
\boxtimes	will be filed.	ASSIGNOR he	reby authori:	zes, and req	uests,
	ASSIGNEE'S legal	representative	, Microsoft Te	chnology Lice	nsing,
	LLC., One Mic	rosoft Way,	Redmond, \	Washington	98052
	(ASSIGNEE'S LEC	AL REPRESEN	ITATIVES), to	insert he	re in
	parentheses (filed	d on <u>2015</u> -	<u>-09-09</u> an	d given Appli	cation
	No. <u>14/848</u>	3,703 by	the	following	Office
	USF	PTO) this	APPLICAT	ΓΙΟΝ's
	Application No., f	iling date, and	Office, when k	nown;	
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L	was filed on			olication No	
		by the following	ig Office		
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behalf of its desirous of a right of prior patents deriv	oft Technology Licelf and its succe acquiring, the entity, in the INVENTITE the therefrom, sucted States, its	ssors and assive and exclusive on and the API has continuing	gns ("ASSIGNI ve rights, title PLICATION (an g applications,	EE"), is entitle and interest, i d all other app in whole or ir	d to, and is including the olications and part, in and
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MS Docket No.: 357738.01

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")):

To Ira	09/08/2015	
Inventor's Signature	Date	
Jia Hua	华佳	
Jia Hua	Printed Name in Native Language	
Printed Name in English	(if other than English)	

	PATENT A	ASSIGNMENT	MS Docket No.: <u>357738.01</u>			
		a Khorosh	("ASSIGNOR") am the original			
			NVENTION") disclosed and/or			
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SOURCE DIRECTION ESTIMATION " ("APPLICATION"), which:						
		A. co				
<u>Z</u>	will be filed.	ASSIGNOR hereby auth	orizes, and requests,			
		representative, Microsoft	***			
		rosoft Way, Redmond,				
		AL REPRESENTATIVES),				
	•	on 2015-09-09				
		3,703 by the				
		TO the data and Office who				
	Application No., i	lling date, and Office, whe	ii kiiowii,			
L	was filed on	and was given	Application No			
by the following Office						
	\$\$ ***********************************	** x ** ** ** ** ** ** ** ** ** ** ** **				
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						
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for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));						
DEKIVALIVE	> //,					
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;						
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My I	9/8/15		
Inventor's Signature	Date		
Ilyn Khorosh			
Ilya Khorosh	Printed Name in Native Language		
Printed Name in English	(if other than English)		