504802766 03/02/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT4849498

CONVEYING PARTY DATA

Name	Execution Date
KOOHYUN UM	03/01/2018
CE ZHANG	03/01/2018
JUNGTAO LIU	03/01/2018

RECEIVING PARTY DATA

Name:	AMAZON TECHNOLOGIES, INC.	
Street Address:	PO BOX 81226	
City:	SEATTLE	
State/Country:	WASHINGTON	
Postal Code:	98108-1226	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15910897

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ATTORNEY DOCKET NUMBER:	33350.186 (L0186)	
NAME OF SUBMITTER:	NATHAN O. GREENE, REG NO. 56956	
SIGNATURE:	/Nathan O. Greene/	
DATE SIGNED:	03/02/2018	

Total Attachments: 6

source=2018-03-02_P44494-US-33350-186-L0186-Assignment#page1.tif source=2018-03-02_P44494-US-33350-186-L0186-Assignment#page2.tif source=2018-03-02_P44494-US-33350-186-L0186-Assignment#page3.tif source=2018-03-02_P44494-US-33350-186-L0186-Assignment#page4.tif

PATENT 504802766 REEL: 045094 FRAME: 0509

source=2018-03-02_P44494-US-33350-186-L0186-Assignment#page5.tif source=2018-03-02_P44494-US-33350-186-L0186-Assignment#page6.tif

U.S. Patent Appln. No. 15/910,897 Attorney Docket No. 33350.186 (L0186)

Filing Date March 2, 2018 Client Docket No. P44494-US

PARTIES TO THE ASSIGNMENT

Assignor(s):

Koohyun Um 410 Terry Avenue North Seattle, WA 98109-5210 Jungtao Liu 410 Terry Avenue North Seattle, WA 98109-5210

Ce Zhang

410 Terry Avenue North Seattle, WA 98109-5210

Assignee:

Amazon Technologies, Inc. PO Box 81226 Seattle, WA 98108-1226

AGREEMENT

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of Lowenstein Sandler LLP, associated with Customer No. 14432, to insert in the header above and here in parentheses (U.S. Patent Application No. 15/910,897, filed March 2, 2018) this application's U.S. application number and filing date, when known.

U.S. Patent Appln. No. 15/910,897

Attorney Docket No. 33350.186 (L0186)

Filing Date March 2, 2018

Client Docket No. P44494-US

Title of Invention: PRESENCE DETECTION USING WIRELESS SIGNALS CONFIRMED WITH

ULTRASOUND AND/OR AUDIO

Inventors: Koohvun Um, Ce Zhang, Jungtao Liu

WHEREAS, ASSIGNEE, a corporation of the State of Nevada, is desirous of acquiring the

entire right, title and interest in and to the Invention and in and to any letters patent that may

be granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of

which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its

successors and assigns, the entire right, title and interest in and to said Invention and any

improvements thereto, said Application and any and all letters patent which may be granted for

said Invention in the United States of America and its territorial possessions and in any and all

foreign countries, and in any and all provisional, divisions, reissues, re-examinations and

continuations thereof, including the right to file foreign applications directly in the name of

ASSIGNEE and to claim priority rights deriving from said Application to which said foreign

applications are entitled by virtue of international convention, treaty or otherwise, said

Invention, Application and all letters patent on said Invention to be held and enjoyed by

ASSIGNEE and its successors and assigns for their use and benefit and of their successors and

assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had

this assignment, transfer and sale not been made. ASSIGNOR(5) hereby authorize and request

the Commissioner of Patents and Trademarks, as well as all other applicable patent offices

throughout the world, to issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S)

agree to execute all instruments and documents required for the making and prosecution of

applications for United States and foreign letters patent on said Invention, for litigation

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U.S. Patent Appln. No. 15/910,897

Attorney Docket No. 33350.186 (L0186)

Filing Date March 2, 2018

Client Docket No. P44494-US

Title of Invention: PRESENCE DETECTION USING WIRELESS SIGNALS CONFIRMED WITH

ULTRASOUND AND/OR AUDIO

Inventors: Koohvun Um, Ce Zhang, Jungtao Liu

regarding said letters patent, or for the purpose of protecting title to said Invention or letters

patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its

successors, legal representatives, and assigns all claims for damages and all remedies arising out

of any violation of the rights assigned hereby that may have accrued prior to the date of

assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue

for, collect, and retain damages for past infringements of said letters patent before or after

issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will

communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to

ASSIGNOR respecting the Invention or said Application, and testify in any legal proceeding, assist

in the preparation of any other patent property relating to the Application and the Invention or

any improvements made thereto, sign/execute all lawful papers, provide all requested

documents, execute and make all rightful oaths and/or declarations in connection with the

Application and the Invention including any improvements made thereto, any patent

applications filed therefrom, and any continuing application filed from any of the

aforementioned applications, and generally do everything possible to aid ASSIGNEE, its

successors, legal representatives and assigns, to obtain and enforce proper patent protection for

the Invention in all countries. These provisions are binding upon ASSIGNOR's heirs, legal

representatives, administrators, and assigns.

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U.S. Patent Appln. No. 15/910,897	Attorney Docket No. 33350.186 (L0186)
Filing Date March 2, 2018	Client Docket No. <u>P44494-US</u>
Title of Invention: <u>PRESENCE DETECTION</u> ULTRASOUND AND/OR AUDIO	USING WIRELESS SIGNALS CONFIRMED WITH
Inventors: Koohyun Um, Ce Zhang, Jungt	ao Liu
DECLARATION As a below named inventor, I hereby dec	lare that:
This declaration is directed to:	
igstyle igstyle igstyle the attached application; or	
United States Patent Applicat	ion number filed on; or
PCT International Application	number filed on
The above-identified application was ma	de or authorized to be made by me.
I believe that I am the original inventor o application.	r an original joint inventor of a claimed Invention in the
I have reviewed and understand the cont	rents of the above-identified application, and
acknowledge the duty to disclose to the	US Patent & Trademark Office all information known to
me to be material to the patentability as	defined in 37 CFR 1.56.
I hereby acknowledge that any willful fals	se statement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonm	ent of not more than five (5) years, or both.
Docusigned by: / 2004 Um/	
Koohyun Um	
March 1, 2018	
Date	

Date		
March 1, 2018		
Ce Zhang		
Docusigned by: 1 Co Guard 25D1984A51664EA		
under 18 USC 1001 by fine or imprisonment of not	: more than five (5) years, or bot	:h.
I hereby acknowledge that any willful false statements and the statements are the statements and the statements are statements.	·	
me to be material to the patentability as defined in	n 37 CFR 1.56.	
acknowledge the duty to disclose to the US Patent	& Trademark Office all informa	tion known to
I have reviewed and understand the contents of th	ne above-identified application, a	and
I believe that I am the original inventor or an original application.	nal joint inventor of a claimed In	vention in the
The above-identified application was made or auth	norized to be made by me.	
PCT International Application number	filed on	·
United States Patent Application numb	er filed on	; or
the attached application; or		
This declaration is directed to:		
As a below named inventor, I hereby declare that:		
DECLARATION		
Inventors: Koohyun Um, Ce Zhang, Jungtao Liu		
Title of Invention: <u>PRESENCE DETECTION USING WILL</u> <u>ULTRASOUND AND/OR AUDIO</u>	RELESS SIGNALS CONFIRMED WI	<u>TH</u>
Filing Date March 2, 2018	Client Docket	No. <u>P44494-US</u>
U.S. Patent Appin. No. 15/910,897	Attorney Docket No. <u>333.</u>	50.186 (L0186)

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RECORDED: 03/02/2018

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. <u>15/910,897</u>	Attorney Docket No. <u>33350.186 (L0186)</u>
Filing Date March 2, 2018	Client Docket No. <u>P44494-US</u>
Title of Invention: <u>PRESENCE DETECTION USING \</u> ULTRASOUND AND/OR AUDIO	WIRELESS SIGNALS CONFIRMED WITH
Inventors: Koohyun Um, Ce Zhang, Jungtao Liu	
DECLARATION	
As a below named inventor, I hereby declare tha	et:
This declaration is directed to:	
the attached application; or	
United States Patent Application nur	mber filed on; or
PCT International Application number	er filed on
The above-identified application was made or a	uthorized to be made by me.
I believe that I am the original inventor or an ori application.	ginal joint inventor of a claimed Invention in the
I have reviewed and understand the contents of	the above-identified application, and
acknowledge the duty to disclose to the US Pate	nt & Trademark Office all information known to
me to be material to the patentability as defined	d in 37 CFR 1.56.
I hereby acknowledge that any willful false state under 18 USC 1001 by fine or imprisonment of r	
Docusigned by: / Jungtab Liw 13548D9F69154FB	
Jungtao Liu	
March 1, 2018	
Date	

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