505370086 03/12/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5416878

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
AKSHAY MOHAN	03/10/2019
YUE ZHENG	03/10/2019
DEEPAK PAI HOSADURGA	03/06/2019
JAGAN VAIDYANATHAN RAJAGOPALAN	03/06/2019

### **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:	16298723

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	33350.212 (L0212)
NAME OF SUBMITTER:	KEVIN O. GRANGE
SIGNATURE:	/Kevin O. Grange/
DATE SIGNED:	03/12/2019

### **Total Attachments: 7**

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PATENT REEL: 048572 FRAME: 0022

U.S. Patent Appln. No	Attorney Docket No. <u>33350.212 (L021</u>	<u>2)</u>
Filing Date	Client Docket No. <u>P63702-US01</u>	
PARTIES TO THE ASSIGNMENT		
Assignor(s):		
Akshay Mohan	Deepak Pai Hosadurga	
410 Terry Avenue North	410 Terry Avenue North	
Seattle, WA 98109-5210	Seattle, WA 98109-5210	
Yue Zheng	Jagan Vaidyanathan Rajagopalan	
410 Terry Avenue North	410 Terry Avenue North	
Seattle, WA 98109-5210	Seattle, WA 98109-5210	
Assignee: Amazon Technologies, Inc. PO Box 81226 Seattle, WA 98108-1226		
AGREEMENT		
WHEREAS, ASSIGNOR(S) (listed above) are	e inventor(s) of an invention entitled	
"DYNAMIC NOISE CANCELLATION USING NOISE PA	[TERNS" (Invention) for which a non-provision	al
application for United States Letters Patent (Appl	ication):	
was filed on and accorde	d U.S. Application No; or	
will be filed concurrently with the sub	omission of this executed PATENT ASSIGNMEN	IT
for recordation.		
ASSIGNOR(S) hereby authorizes and requests	ASSIGNEE'S legal representatives, of	
Lowenstein Sandler LLP, associated with Custome	er No. <u>14432</u> , to insert in the header above ar	ıd
here in parentheses (U.S. Patent Application No		ı's
U.S. application number and filing date, when kno	own.	
WHEREAS, ASSIGNEE, a corporation of th	ne State of Nevada, is desirous of acquiring th	1e
entire right, title and interest in and to the Invent	ion and in and to any letters patent that may b	)e
granted therefor in the United States and in any a	and all foreign countries.	

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U.S. Patent Appln. No. \_\_\_\_\_ Attorney Docket No. <u>33350.212 (L0212)</u>

Filing Date \_\_\_\_\_ Client Docket No. <u>P63702-US01</u>

Title of Invention: DYNAMIC NOISE CANCELLATION USING NOISE PATTERNS

Inventors: Akshay Mohan, Yue Zheng, Deepak Pai Hosadurga, Jagan Vaidyanathan Rajagopalan

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(S) 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 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

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U.S. Patent Appln. No. \_\_\_\_\_ Attorney Docket No. <u>33350.212 (L0212)</u>

Filing Date \_\_\_\_\_ Client Docket No. <u>P63702-US01</u>

Title of Invention: <u>DYNAMIC NOISE CANCELLATION USING NOISE PATTERNS</u>

Inventors: Akshay Mohan, Yue Zheng, Deepak Pai Hosadurga, Jagan Vaidyanathan

Rajagopalan

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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PATENT REEL: 048572 FRAME: 0025

U.S. Patent Appln. No	ı	Attorney Docket No. <u>333</u>	350.212 (L0212)
Filing Date		Client Docket No	o. <u>P63702-US01</u>
Title of Invention: <u>DYNAMIC NOISE CANCELL</u>	ATION USING	NOISE PATTERNS	
Inventors: Akshay Mohan, Yue Zheng, Deep Rajagopalan	ak Pai Hosad	urga, Jagan Vaidyanath	an
<b>DECLARATION</b> As a below named inventor, I hereby declare	e that:		
This declaration is directed to:			
igstyle igstyle igstyle the attached application; or			
United States Patent Application	number	filed on	; or
PCT International Application nu	mber	filed on	<u></u> ,
The above-identified application was made	or authorized	to be made by me.	
I believe that I am the original inventor or ar application.	n original joint	t inventor of a claimed Ir	nvention in the
I have reviewed and understand the content	ts of the abov	e-identified application,	and
acknowledge the duty to disclose to the US	Patent & Trad	lemark Office all informa	ition known to
me to be material to the patentability as def	fined in 37 CF	R 1.56.	
I hereby acknowledge that any willful false s	tatement ma	de in this declaration is p	ounishable
under 18 USC 1001 by fine or imprisonment	of not more t	chan five (5) years, or bo	th.
Docusigned by:  / Alshay Molian/			
Akshay Mohan			
March 10, 2019			
Date			

U.S. Patent Appln. No.	Attorney Docket No. <u>33350.212 (L0212)</u>
Filing Date	Client Docket No. P63702-US01
Title of Invention: DYNAMIC NOISE CANCELLATION USIN	G NOISE PATTERNS
Inventors: Akshay Mohan, Yue Zheng, Deepak Pai Hosa Rajagopalan	edurga, Jagan Vaidyanathan
DECLARATION	
As a below named inventor, I hereby declare that:	
This declaration is directed to:	
the attached application; or	
United States Patent Application number	filed on; or
PCT International Application number	filed on
The above-identified application was made or authorize	ed to be made by me.
I believe that I am the original inventor or an original joi application.	int inventor of a claimed Invention in the
I have reviewed and understand the contents of the abo	ove-identified application, and
acknowledge the duty to disclose to the US Patent & Tra	ademark 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 false statement m	nade in this declaration is punishable
under 18 USC 1001 by fine or imprisonment of not more	e than five (5) years, or both.
DocuSigned by:  //W Hung/  3EAF6 198AEB84D9	
Yue Zheng	
March 10, 2019	
Date	

U.S. Patent Appln. No	Attorney Docket No. <u>33350.212 (LU21</u>	2
Filing Date	Client Docket No. P63702-USC	<u>)1</u>
Title of Invention: <u>DYNAMIC NOISE CANCELLATI</u>	ION USING NOISE PATTERNS	
Inventors: Akshay Mohan, Yue Zheng, Deepak Rajagopalan	: Pai Hosadurga, Jagan Vaidyanathan	
<u>DECLARATION</u>		
As a below named inventor, I hereby declare th	hat:	
This declaration is directed to:		
$igstyle{igstyle}$ the attached application; or		
United States Patent Application nu	umber filed on; or	
PCT International Application numb	oer filed on	
The above-identified application was made or a	authorized to be made by me.	
I believe that I am the original inventor or an or application.	riginal joint inventor of a claimed Invention in th	е
I have reviewed and understand the contents o	of the above-identified application, and	
acknowledge the duty to disclose to the US Pat	tent & Trademark Office all information known to	0
me to be material to the patentability as define	ed in 37 CFR 1.56.	
I hereby acknowledge that any willful false stat	tement made in this declaration is punishable	
under 18 USC 1001 by fine or imprisonment of	not more than five (5) years, or both.	
Deepak Pai Hosadurgal  254237E8632945E		
Deepak Pai Hosadurga		
March 6, 2019		
Date		

U.S. Patent Appln. No.	Attorney Docket No. <u>33350.212 (L0212)</u>
Filing Date	Client Docket No. P63702-US01
Title of Invention: <u>DYNAMIC NOISE CANCE</u>	LATION USING NOISE PATTERNS
Inventors: Akshay Mohan, Yue Zheng, De Rajagopalan	epak Pai Hosadurga, Jagan Vaidyanathan
DECLARATION	
As a below named inventor, I hereby declar	are that:
This declaration is directed to:	
igstyle the attached application; or	
United States Patent Application	on number filed on; or
PCT International Application	number filed on
The above-identified application was mad	e or authorized to be made by me.
I believe that I am the original inventor or application.	an original joint inventor of a claimed Invention in the
I have reviewed and understand the conte	nts of the above-identified application, and
acknowledge the duty to disclose to the U	S Patent & Trademark Office all information known to
me to be material to the patentability as o	lefined in 37 CFR 1.56.
I hereby acknowledge that any willful false	e statement made in this declaration is punishable
under 18 USC 1001 by fine or imprisonmen	nt of not more than five (5) years, or both.
Docusigned by: / Jagan Vaidyanathan Kajagopalan/	•
Jagan Vaidyanathan Rajagopalan	
March 6, 2019	
Date	

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