PATENT ASSIGNMENT COVER SHEET

Stylesheet Version v1.2

EPAS ID: PAT5283346 Electronic Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the THE SPELLING OF THE FIRST INVENTOR'S NAME previously recorded on Reel 045276 Frame 0480. Assignor(s) hereby confirms the THE FIRST INVENTOR'S FIRST NAME IS SPELLED ATHMANARAYANAN AND THE LAST NAME IS SPELLED LAKSHMI NARAYANAN.
RESUBMIT DOCUMENT ID:	504999276

CONVEYING PARTY DATA

Name	Execution Date
ATHMANARAYANAN LAKSHMI NARAYANAN	05/23/2018
YI-TING CHEN	05/23/2018

RECEIVING PARTY DATA

Name:	HONDA MOTOR CO., LTD.
Street Address:	1-1 MINAMI-AOYAMA 2-CHOME, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	107-8556

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15923592

CORRESPONDENCE DATA

Fax Number: (202)857-6395

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: 2028576000

Email: patentdocket@arentfox.com

Correspondent Name: ARENT FOX LLP Address Line 1: 1717 K STREET, NW

Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	037110.01112
NAME OF SUBMITTER:	CHARNELLE SAVOY
SIGNATURE:	/Charnelle Savoy/
DATE SIGNED:	12/14/2018

Total Attachments: 4

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PATENT REEL: 047776 FRAME: 0945

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> PATENT REEL: 047776 FRAME: 0946



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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	ASSIGNMENT				

CONVEYING PARTY DATA

Name	Execution Date
ATHMA LAKSHMI NARAYANAN	03/07/2018
YI-TING CHEN	03/07/2018

RECEIVING PARTY DATA

Name:	HONDA MOTOR CO., LTD.	a Maria de la compansión de la compansió
Street Address:	1-1 MINAMI-AOYAMA 2-CHOME	
City:	MINATO-KU, TOKYO	
State/Country:	JAPAN	
Postal Code:	107-8556	

PROPERTY NUMBERS Total: 1

Property Type	Num	ber
Application Number:	15923592	

CORRESPONDENCE DATA

REEL: 047776 FRAME: 0947

Fax Number: (202)857-6395 Phone: 2028576000 patentdocket@arentfox.com 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. Correspondent Name: ARENT FOX LLP Address Line 1: 1717 K STREET, NW Address Line 4: WASHINGTON, D.C. 20006 ATTORNEY DOCKET 037110.01112 NUMBER: NAME OF SUBMITTER: CHARNELLE SAVOY Signature: /Charnelle Savoy/ Date: 03/19/2018 Total Attachments: 1 source=H1180004US01_20180319_Assignment_Filed#page1.tif RECEIPT INFORMATION EPAS ID: PAT4872843 Receipt Date: 03/19/2018

Return to home page

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REEL: 047776 FRAME: 0948

Docket No. 037110.01112

WORLDWIDE ASSIGNMENT

NOW THEREFORE, be it known that for and in good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) from

[Insert ASSIGNEE's Name(s) Address(es)]

HONDA MOTOR CO., LTD.
1-1 Minami-Aoyama 2-Chome, Minato-ku
Tokyo, Japan 107-8556

(hereinafter ASSIGNEE), the undersigned ASSIGNOR agrees to sell, assign and transfer, and hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention entitled

[Title of Invention]

[*If the assignment is being filed after the filing of the application, this section must be completed]

NDAR NOISE REMOVAL		

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on

hamal levationen

(SIGNATURE)

(SIGNATURE)

March 16, 2018

Serial No.

15/923592

(Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and any continuation, continuation-in-part, division, renewal, substitute, reissue or reexamination thereof, and any other application claiming priority thereto, and all Letters Patent of the United States and in all foreign countries to be obtained therefor for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

[Signature(s) of Assignor(s)]

Athma Lakshmi NARAYANAN

(TYPE NAME)

Yi-Ting CHEN

(TYPE NAME)

/<u>(プイ/ २</u>075 (DATE)

(DATE)

AFDOCS/15972890.1

PATENT REEL: 047776 FRAME: 0949

Docket No. 037110.01112/H1180004US01

WORLDWIDE ASSIGNMENT

NOW THEREFORE, be it known that for and in good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) from [Insert HONDA MOTOR CO., LTD. ASSIGNEE's 1-1 Minami-Aoyama 2-Chome, Minato-ku Name(s) Tokyo, Japan 107-8556 Address(es)] (hereinafter ASSIGNEE), the undersigned ASSIGNOR agrees to sell, assign and transfer, and hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention entitled Title of LIDAR NOISE REMOVAL USING IMAGE PIXEL CLUSTERINGS Invention] for which application for Letters Patent of the United States was executed on even date herewith unless [*If the assignment otherwise indicated below: is being filed after the filing of the filed on March 16, 2018 Serial No. application, this section must be (Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known) completed] and any continuation, continuation-in-part, division, renewal, substitute, reissue or reexamination thereof, and any other application claiming priority thereto, and all Letters Patent of the United States and in all foreign countries to be obtained therefor for the full term or terms for which the same may be granted. The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient. The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding. IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). [Signature(s) Athmanarayanan LAKSHMI of Assignor(s)] **NARAYANAN** (TYPE NAME) **Yi-Ting CHEN** (TYPE NAME) SIGNATURE

AFDOCS/15972890.2

RECORDED: 07/11/2018