504922015 05/18/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4968761

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HONGSHENG LU	04/20/2018
GAURAV BANSAL	04/20/2018
JOHN KENNEY	04/20/2018
TORU NAKANISHI	05/07/2018

RECEIVING PARTY DATA

Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA
Street Address:	1, TOYOTA-CHO
City:	TOYOTA-SHI, AICHI-KEN
State/Country:	JAPAN
Postal Code:	471-8571

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15187504

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.

Phone: 6785953977

Email: paralegal@burbagelaw.com

Correspondent Name: BURBAGE LAW Address Line 1: 175 S. MAIN ST. Address Line 2: SUITE 500

Address Line 4: SALT LAKE CITY, UTAH 84105

ATTORNEY DOCKET NUMBER:	T1834.10150US01
NAME OF SUBMITTER:	KATHERINE D. GARDNER
SIGNATURE:	/Katherine D. Gardner/
DATE SIGNED:	05/18/2018

Total Attachments: 4

source=0232_TSN201601110US00_183410150US01_20180510_Declaration_Nakanishi_Signed#page1.tif source=0232_TSN201601110US00_183410150US01_20180420_Declaration_Kenney_Signed#page1.tif

PATENT 504922015 REEL: 045848 FRAME: 0013

source=0232_TSN201601110US00_183410150US01_20180420_Declaration_Lu_Signed#page1.tif source=0232_TSN201601110US00_183410150US01_20180420_Declaration_Bansal_Signed#page1.tif

PATENT REEL: 045848 FRAME: 0014 To: iTC Page 2 of 2

14355782021 From: Jon Burbag

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

Inventor Name	Toru NAKANISHI	
	In consideration of my ongoing employment and other good and valuable consideration and to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and so over to	
Name of Assignce	TOYOTA JIDOSHA KABUSHIKI KAISHA	
Address of Assignce	1, Toyora-cho, Toyota-ahi, Aichi-ken, 471-8371 Japan	
٠.	(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 25 U.S.C. §100. in the invention, and to all applications for paront including any and all provisional, nonemotional, divisional, continuation, international, substitute and reissue application(s), and all Letters Parent, extensions, reissues and reexamination certificates that may be granted on the invention known as	
Identification such as Title, Case Number, or	THE CONTROL OF THE PARTY OF THE PARTY OF A MOREY DATA	
Foreign Application Number		
14000-2-	(Attorney Docket No. T1834.10150(ISO)), filed on even date herewith or as	
Alternative	U.S. Application Number 15/187,504	
Identification for		

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any acr which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignce, as Assignce of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not excented, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heim, successors, assigns and legal representatives.
- 6) Each undersigned hereby grams the firm of BURRAGE LAW PC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Declaration

filed applications

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

filed

June 20, 2016

I have reviewed and understand the contents of the above identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

May 7,2018 Inventor Signature Toru Nakanishi

PATENT

REEL: 045848 FRAME: 0015

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

Inventor Name	John KENNEY
	In consideration of my ongoing employment and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to
Name of Assignee	TOYOTA JIDOSHA KABUSHIKI KAISHA
Address of Assignee	1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan
	(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as
Identification such as Title, Case Number, or	Traffic Obstruction Notification System Based on Wireless Data
Foreign Application Number	
THIRDOX	(Attorney Docket No. T1834.10150US01), filed on even date herewith or as
Alternative	U.S. Application Number 15/187,504
Identification for	
filed applications	filed June 20, 2016
 Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary. Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding. Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements. Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee. Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives. Each undersigned hereby grants the firm of Burbage Law PC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document. 	
Declaration	distant or
As an above named inventor, I hereby declare that: I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.	
The application was made or au	thorized to be made by me.
I have reviewed and understand Office all information known to me to be	the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the material to patentability as defined in 37 CFR §1.56.
I hereby acknowledge that an imprisonment of not more than five (5)	y willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or years, or both.
In witness whereof, executed	d by the undersigned on the date(s) opposite the undersigned name(s).
Date April 20,2	1) 18 Inventor Signature John B. Kenney

PATENT REEL: 045848 FRAME: 0016

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

Inventor Name	Hongsheng LU
	In consideration of my ongoing employment and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to
Name of Assignee	TOYOTA JIDOSHA KABUSHIKI KAISHA
Address of Assignee	1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan
Identification such as	(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as Traffic Obstruction Notification System Based on Wireless Data
Title, Case Number, or Foreign Application	
Number	(Attorney Docket No. T1834.10150US01), filed on even date herewith or as
Alternative	U.S. Application Number 15/187,504
Identification for	
filed applications	filed June 20, 2016
to execute separate assignments in con 2) Each undersigned agrees of declared concerning any application or and going forward with such interference 3) Each undersigned agrees of claims or provisions of the Internation 4) Each undersigned agrees of reexamination a grant of a valid United 5) Each undersigned authorizes the interest herein assigned, and that this assignment is binding on Assignor 6) Each undersigned hereby	to execute all papers and documents and perform any act which may be necessary in connection with al Convention for Protection of Industrial Property or similar agreements. to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or
Declaration	
As an above named inventor, I hereby	declare that:
I believe I am the original invention which this declaration is being submitted.	ntor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for .
The application was made or au	thorized to be made by me.
	the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the material to patentability as defined in 37 CFR §1.56.
I hereby acknowledge that an imprisonment of not more than five (5)	y willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or years, or both.
In witness whereof, execute	d by the undersigned on the date(s) opposite the undersigned name(s).

Date 420/2018 Inventor Signature

PATENT REEL: 045848 FRAME: 0017

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

Inventor Name	Gaurav BANSAL
	In consideration of my ongoing employment and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to
Name of Assignee	TOYOTA JIDOSHA KABUSHIKI KAISHA
Address of Assignee	1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan
	(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as
Identification such as Title, Case Number, or	Traffic Obstruction Notification System Based on Wireless Data
Foreign Application Number	
- ((Attorney Docket NoT1834.10150US01), filed on even date herewith or as
Alternative	U.S. Application Number 15/187,504
Identification for	
filed applications	filed June 20, 2016
2) Each undersigned agrees declared concerning any application o and going forward with such interfere: 3) Each undersigned agrees claims or provisions of the Internation 4) Each undersigned agrees reexamination a grant of a valid Unite 5) Each undersigned authority resulting from said application(s) to the entire interest herein assigned, and that this assignment is binding on Assignoon 6) Each undersigned hereby	to execute all papers and documents and perform any act which may be necessary in connection with al Convention for Protection of Industrial Property or similar agreements. to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or
Declaration	
As an above named inventor, I hereby	declare that:
I believe I am the original inve- which this declaration is being submitted	ntor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for I.
The application was made or a	athorized to be made by me.
	If the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the amaterial to patentability as defined in 37 CFR \$1.56.
I hereby acknowledge that a imprisonment of not more than five (5	ny willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or) years, or both.
In witness whereof, execute	ed by the undersigned on the date(s) opposite the undersigned name(s).
Date 4/20 16	Inventor Signature

PATENT REEL: 045848 FRAME: 0018

RECORDED: 05/18/2018