505185040 11/10/2018 PATENT ASSIGNMENT COVER SHEET

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UBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
ONVEYING PARTY [ΟΑΤΑ				
		Name	Execution Date		
XING SUN			05/16/2017		
VUTU LIN			05/17/2017		
LIU LIU			05/17/2017		
/UFEI ZHAO			05/17/2017		
RECEIVING PARTY D	ΑΤΑ				
Name:	TUSIMF	PLE			
Street Address:	9191 TC	OWNE CENTRE DR.			
nternal Address:	SUITE	600			
City:	SAN DI	EGO			
State/Country:	CALIFC	DRNIA			
	92122 S Total: 1				
	S Total: 1	Number			
PROPERTY NUMBERS	S Total: 1	Number 15598693			
PROPERTY NUMBERS Property Type Application Number:	S Total: 1				
Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number:	S Total: 1				
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will	S Total: 1 DATA	15598693 (916)404-5569 • the e-mail address first; if that is unsucc			
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PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will I</i> <i>using a fax number, if</i> Phone:	S Total: 1 DATA be sent to provided	15598693 (916)404-5569 the e-mail address first; if that is unsucc <i>; if that is unsuccessful, it will be sent via</i> 4084064855			
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email:	S Total: 1	(916)404-5569 <i>the e-mail address first; if that is unsucce</i> <i>; if that is unsuccessful, it will be sent via</i> 4084064855 mail@inventive.law			
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Name	S Total: 1 DATA be sent to provided	15598693 (916)404-5569 the e-mail address first; if that is unsucce <i>; if that is unsuccessful, it will be sent via</i> 4084064855 mail@inventive.law INVENTIVE LAW INC.			
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will f using a fax number, if Phone: Email: Correspondent Names Address Line 1:	S Total: 1	(916)404-5569 <i>the e-mail address first; if that is unsucce</i> <i>if that is unsuccessful, it will be sent via</i> 4084064855 mail@inventive.law INVENTIVE LAW INC. 11768 ATWOOD ROAD #214			
PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Names Address Line 1: Address Line 4:	S Total: 1	15598693 (916)404-5569 the e-mail address first; if that is unsucce ; if that is unsuccessful, it will be sent via 4084064855 mail@inventive.law INVENTIVE LAW INC. 11768 ATWOOD ROAD #214 AUBURN, CALIFORNIA 95603			
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PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Names Address Line 1: Address Line 1: Address Line 4: TTORNEY DOCKET N AME OF SUBMITTER	S Total: 1	(916)404-5569 the e-mail address first; if that is unsucced if that is unsuccessful, it will be sent via 4084064855 mail@inventive.law INVENTIVE LAW INC. 11768 ATWOOD ROAD #214 AUBURN, CALIFORNIA 95603 TUS-14 JIM H. SALTER			

Total Attachments: 4

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Title of Invention	PERCEPTION SIMULATION FOR IMPROVED AUTONOMOUS VEHICLE CONTROL
Bocket Number	TuS-14
As the below nam	and inventor, I bereby declare that:
This declaration	The attached patent application, or
is directed to:	United States patent application or PCT international application number:
	filed on If hereby authorize and request any attorney having appropriate authority from the assignce to insert on the designated lines above, the filing take and application autober of said application when known.)
The above-identif	ied application was made or authorized to be made by me.
I believe that I an	a the original inventor or an original joint inventor of a claimed invention in the application.
	edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of not more than five (5) years, or both.
Dr., Suite 600, Sa	AS, TUSIMPLE (hereinafter referred to as "ASSIGNEE") having a place of business at: 9191 Towne Centre in Diego, CA 92122, desires to acquire the entire right, title and interest in said invention and the above- States patent application,
acknowledged, I identified United and reissues, rees applications filed applications, and I hereby own name and th	HEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby hereby assign to the ASSIGNEE, the entite right, title and interest in said invertion and in the above- States patent application and in all divisions, continuations and continuations-in-part of said application, caminations, extensions and renewals of Letters Patent granted thereon, and in all corresponding patent in countries foreign to the United States ("foreign countries") and corresponding international patent in all Letters Patents issuing on any such patent applications in the United States and foreign countries; assign to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its he right to claim priority to the above-identified United States patent application under the terms of the vention and any other relevant treaties;
I hereby countries to issue and to the same,	without and request the United States Patent & Trademark Office and officials in patent offices in foreign any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and interest in for the sole use and on behalf of the ASSIGNEE, its successors, assigns, and legal representatives, to the m for which said Letters Patent may be granued.
[hereby and property here	warrant and represent that no assignment, grant, morigage, license, or other agreement affecting the rights ein conveyed has been made to others by the undersigned, and that full right to convey the same as herein sessed by the undersigned; and
respecting said in continuation-in-papers to cause sa	agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me ivention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, art, substitute, renewal, reexamination, extension, and reissue applications, execute all necessary assignment id Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and
LEGAL NAME (
Inventor: <u>></u>	Ging SUN Date: 5/16/2017
Signature:	\mathcal{P}

INVENTIVE PATENT LAW P.C. 2280 East Bidweil St. #214, Folsom, CA 95630 US (408) 406-4855

Docket Number TuS-14 As the below named inventor, I hereby declare that: This declaration Image: State inventor is a state of the
This declaration The attached patent application, or is directed to: United States patent application or PCT international application number. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be 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. WHEREAS, TUSIMPLE (hereinafter referred to as "ASSIGNEE") having a place of business at: 9191 Towne Centre Dr., Suite 600, San Diego, CA 22122, desites to acquire the entire right, title and interest in said invention and the above- identified United States patent application, NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I hereby assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above- identified United States patent application and in all divisions, continuations-in-part of said application, and reissues, reevanianiations, extensions and renewals of Letters Patent granted thereon, and in all corresponding patent applications, filed in countries foreign to the United States ("foreign countries") and corresponding international patent applications in the aSIGNEE the right to file patent applications in foreign countries I hereby assign to the ASIGNEE the right to file patent application in origin countries on said invention in its own name and the right to claim priority to the above-identified United States patent application under the terms of the
 is directed to: United States patent application or PCT international application number. United States patent application or PCT international application number. is dibrity from the assignee to itsent on the designated lines above, the filling date and application another of said application when known.) The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any wilfful 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. WHEREAS, TUSIMPLE (hereinafter referred to as "ASSIGNEE") having a place of business at: 9191 Towne Centre Dr., Suite 600, San Diego, CA 92122, desires to acquire the entire right, title and interest in said invention and the above-identified United States patent application, NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I hereby assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above-identified United States patent applications and reisues, creasanianidions, extensions and renewals of Letters Patent granted thereon, and in all divisions, continuations in-part of said applications applications filed in countries foreign to the United States ("foreign countries") and corresponding patent applications, and in all Letters Patent granted thereon, and final false the right to file patent applications in breind countries on said invention in its own name and the tight to claim priority to the above-identified United States patent application in its invention in its own name and the r
In the solution of the solution of the solution of the solution of the solution indices. If the discrete solution is a solution is a solution in the solution of the solution is and request any atoms having appropriate application when known.) The above-identified application when known.) WHEREAS, TUSIMPLE (hereinsinfler referred to as "ASSIGNEE") having a place of business at: 9191 Towne Centre Dr., Suite 600, San Diego, CA 92122, desires to acquire the entire right, title and interest in said invention and the above-identified United States patent application, NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I hereby assign to the ASSIGNEE, the entire right, title and interest is said invention and in the above-identified United States patent application and reissues, reexaminations, extensions and renewals of Letters Patent granted thereon, and in all Corresponding patent applications in the latter sponding patent applications filed in countries foreign to the United States ("foreign countries") and corresponding international patent applications in the ASIGNEE the right to file patent applications in hereign countries on said invention in its own name and the right to claim priority to the above-identified United States patent application under the te
spplication was nade or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I bereby acknowledge that any wilfful 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. WHEREAS, TUSIMPLE (hereinafter referred to as "ASSIGNEE") having a place of business at: 9191 Towne Centre Dr., Suite 600, San Diego, CA 92122, desires to acquire the entire right, title and interest in said invention and the above- identified United States patent application, NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I hereby assign to the ASSIGNEE, the entire right, title and interest in said invention and in the above- identified United States patent application and in all divisions, continuations and continuations-in-part of said application and reissues, reexaminations, extensions and renewals of Letters Patent granted thereon, and in all corresponding patent applications filed in countries foreign to the United States ("foreign countries") and corresponding international patent applications, and in all Letters Patents issuing on any such patent applications in the United States and foreign countries I hereby assign to the ASSIGNEE the right to file patent applications in ordine countries on said invention in its own name and the tight to claim priority to the above-identified United States patent application under the terms of the
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International Convention and any other relevant treaties; I hereby authorize and request the United States Patent & Trademark Office and officials in patent offices in foreign countries to issue any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and interest in
and to the same, for the sole use and on behalf of the ASSIGNEE, its successors, assigns, and legal representatives, to the full end of the term for which said Leiters Patent may be granted;
I hereby warrant and represent that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned; and
Further, I agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation, in-part, substitute, renewal, reexamination, extension, and reissue applications, execute all necessary assignment papers to cause said Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid the ASSIGNEE, its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and foreign countries.
LEGAL NAME OF INVENTOR . 1, 06/17
Inventor: Wutu LIN
Signature:V V V V V V V

INVENTIVE PATENT LAW p.c. 2280 East Bidwell St. #214, Folsom, CA 95630 US (408) 406-4855

Title of	
Invention	PERCEPTION SIMULATION FOR IMPROVED AUTONOMOUS VEHICLE CONTROL
Docket Number	TuS-14
As the below nan	ned inventor, I hereby declare that:
This declaration	The attached patent application, or
is directed to:	United States patent application or PCT international application number:
	filed on (I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines above, the filing date and application number of said application when known.)
The above-identit	fied application was made or authorized to be made by me.
I believe that I an	the original inventor or an original joint inventor of a claimed invention in the application.
	edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of not more than five (5) years, or both.
Dr., Suite 600, Sa identified United	AS, TUSIMPLE (hereinafter referred to as "ASSIGNEE") having a place of business at: 9191 Towne Centre an Diego, CA 92122, desires to acquire the entire right, title and interest in said invention and the above- States patent application;
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I hereby own name and t	assign to the ASSIGNEE the right to file patent applications in foreign countries on said invention in its he right to claim priority to the above-identified United States patent application under the terms of the ivention and any other relevant treaties;
I hereby countries to issue and to the same,	authorize and request the United States Patent & Trademark Office and officials in patent offices in foreign e any and all of said Letters Patent to the ASSIGNEE as the assignee of my entire right, title and interest in for the sole use and on behalf of the ASSIGNEE, its successors, assigns, and legal representatives, to the rm for which said Letters Patent may be granted;
and property her	warrant and represent that no assignment, grant, mortgage, license, or other agreement affecting the rights ein conveyed has been made to others by the undersigned, and that full right to convey the same as herein sessed by the undersigned; and
respecting said ir continuation-in-p papers to cause sa	agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me avention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, art, substitute, renewal, reexamination, extension, and reissue applications, execute all necessary assignment tid Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and
LEGAL NAME (OF INVENTOR
Inventor: <u>Y</u>	Aufei ZHAO Date: May. 17, 2017
Signature:	mpl

INVENTIVE PATENT LAW P.C. 2280 East Bidwell St. #214, Folsom, CA 95630 US (408) 406-4855

> PATENT REEL: 047467 FRAME: 0728

Title of Invention	PERCEPTION SIMULATION FOR IMPROVED AUTONOMOUS VEHICLE CONTROL
Docket Number	TuS-14
As the below nam	and inventor, I bereby declare that:
This declaration	The attached patent application, or
is directed to:	United States patent application or PCT international application number:
	filed on If hereby authorize and request any attorney having appropriate authority from the assignce to insert on the designated lines above, the filing date and application outober of said application when known.)
The above-identif	fied application was made or authorized to be made by me.
	a the original inventor or an original joint inventor of a claimed invention in the application.
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and property here	warrant and represent that no assignment, grant, morigage, license, or other agreement affecting the rights ein conveyed has been made to others by the undersigned, and that full right to convey the same as herein sessed by the undersigned; and
respecting said in continuation-in-papers to cause sa	agree that, without further consideration, I will communicate to the ASSIGNEE any facts known to me ivention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, art, substitute, renewal, reexamination, extension, and reissue applications, execute all necessary assignment id Letters Patent to be issued to the ASSIGNEE, make all rightful oaths, and, perform all lawful acts to aid its successors and assigns, to obtain and enforce Letters Patent for said invention in the United States and successors and assigns.
LEGAL NAME (OF INVENTOR
Inventor: <u>1</u>	.iu LIU Date: 5/17/21]
Signature:	

INVENTIVE PATENT LAW P.C. 2280 East Bidwell St. #214, Folsom, CA 95630 US (408) 406-4855