#### 504188543 01/20/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4235218

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JENNIFER ARDEN	12/02/2015
BRIAN DOUGLAS CULLINANE	12/01/2015
MIN LI CHAN	12/01/2015
RENAUD-ROLAND HUBERT	12/01/2015

### **RECEIVING PARTY DATA**

Name:	GOOGLE INC.
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15410242

#### **CORRESPONDENCE DATA**

Fax Number: (908)654-7866

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.

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**Correspondent Name:** LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP

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ATTORNEY DOCKET NUMBER:	XSDV 3.0F-1938 CON
NAME OF SUBMITTER:	MELINDA C. CORMIER
SIGNATURE:	/Melinda C. Cormier/
DATE SIGNED:	01/20/2017

#### **Total Attachments: 4**

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> **PATENT REEL: 041026 FRAME: 0523** 504188543

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PATENT REEL: 041026 FRAME: 0524

Docket Number (Optional)

GOOGLE 3.0F-1938 (E)

	GOOGLE S.OF. 4 (850 (E.)
WHEREAS, I, <u>Jennifer Arden</u> of <u>Tiburon, California</u> , have invent subject matter of which is described in the patent application entitled "Pick Vehicles" (hereafter "Patent Application"),	
WHEREAS (if the left box is checked), the Patent Application was Trademark Office on, Application Number	
WHEREAS (if the left box is checked), the Patent Application na Jennifer Arden, Brian Douglas Cullinane, Min Li Chan, and Renaud-Roland David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Ap 12/2/15] the application number and filing date of the application.	Hubert (and whereas I hereby authorize Lerner, polication No. 14/955, 769 filed on
WHEREAS, <u>Google Inc.</u> , incorporated or otherwise formed in <u>Dr. Amphitheatre Parkway, Mountain View, California 94043 (hereafter, the "acquired and is desirous of memorializing its acquisition further herein, the</u>	assignee*) is desirous of acquiring, or has
NOW, THEREFORE, for good and valuable consideration the reas follows. I agree to assign, and hereby do assign, to the assignee my experience and applications in the United States of America and all other country. Patent Application, including any and all inventions, discoveries and other continuation, continuation-in-part, substitute, reissue, re-examination or of Patent Application pursuant to any law or treaty, and any patent issuing from the assign, to assignee the right to claim such priority or benefit. I have not obligation to convey, my rights in the Assigned Applications to a third part Trademark Office, and any other governmental agency in the world, to issue Assigned Applications and to record assignee's ownership thereof. At assigned Applications, as may be reasonably required to evidence or protect Assignee may assign or transfer all or part of its rights set forth herein in its affix its signature to this document as well as any other indicia of its acceptance in superforceable, the requirements of the provision shall remain to offending portions thereof shall be deemed replaced, to the extent possible purpose of the offending provision.	ntire right, title and interest in and to the ries, where "Assigned Applications" means the subject matter described therein, any divisional, ther application claiming priority or benefit to the om the foregoing. I agree to assign, and hereby at previously conveyed, nor am I aware of an y. I hereby authorize the U.S. Patent and ue to assignee all patents resulting from the signee's reasonable request I agree, without mee's expense and to provide other cooperation, assignee's rights in the Assigned Applications. Its sole discretion. I agree that the assignee may stance of the provisions hereof. If any provision the full extent permissible by law and the
12/2/2015	Lunifer Arden
(Date)	(Signature)

Docket Number (Optional)

GOOGLE 3.0F-1938 (E)

WHEREAS I, Brian Douglas Cullinane of Palo Alto, California, have invented or discovered inventions or scoveries, the subject matter of which is described in the patent application entitled 'Plokup And Drop Off Zones For utchnomous Vehicles' (hereafter "Patent Application').  WHEREAS (if the left box is checked), the Patent Application was filled with the U.S. Patent and ademark Office on	WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and ademark Office on		
WHEREAS (if the left box is checked), the Patent Application names the following inventors:  unifer Arden, Brian Douglas Cullinane, Min Li Chan, and Renaud-Roland Hubert (and whereas I hereby authorize Lerner, avid, Littenberg, Krumholz & Mentilk, LLP, to insert in here in brackets (Application No. 14/955,769 filed on 12/2/15 ] the application number and filing date of the application when known), and  WHEREAS, Google Inc., incorporated or otherwise formed in Delaware and having a place of business at 1600 mphitheatre Parkway, Mountain View, California 94043 (hereafter, the "assignee") is desirrous of acquiring, or has acquired and is desirrous of memorializing its acquisition further herein, the entire right, title and interest in same;  NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree is follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the satigned Applications in the United States of America and all other countries, where "Assigned Applications" means the atent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, ontinuation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the atent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby a assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an oligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and rademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the sisginee Applications and to record assignee's ownership thereof. At assignee's expense and to provide other cooperation, och as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigne	WHEREAS (if the left box is checked), the Patent Application names the following inventors: Implied Arden, Brian Douglas Cullinane, Min Li Chan, and Renaud-Roland Hubert (and whereas I hereby authorize Lerner, avid, Littenberg, Krumhotz & Mentlik, LLP, to insert in here in brackets (Application No. 14/955,769 filed on 12/2/15 the application number and filing date of the application when known), and  WHEREAS, Google Inc., incorporated or otherwise formed in Delaware and having a place of business at 1600 mphitheatre Parkway. Mountain View. California 94043 (hereafter, the "assignee") is desirous of acquiring, or has equired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same;  NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree is foliows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the signed Applications in the United States of America and all other countries, where "Assigned Applications" means the attent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, intinuation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the attent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby a assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an aligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and ademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the sisgined Applications and to record assignee's ownership thereof. At assignee's reasonable request I agree, without other remuneration, to execute and deliver documents prepared at assignee's rights in the Assignee Applications, si		
international process and the provision of the properties of the project project of the project	inter Arden, Brian Douglas Cullinane, Min Li Chan, and Renaud-Roland Hubert. (and whereas I hereby authorize Lerner, avid, Littenberg, Krumholz & Mentik, LLP, to insert in here in brackets [Application No. 14/955,769], filed on 12/2/15. It has application number and filing date of the application when known), and  WHEREAS, Google Inc., incorporated or otherwise formed in Delawarg and having a place of business at 1600 mphitheatre Parkway. Mountain View. California 94043 (hereafter, the "assignee") is desirous of acquiring, or has aquired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same;  NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree is follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the signed Applications in the United States of America and all other countries, where "Assigned Applications" means the atent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, intinuation, including any and all inventions, discoveries and other subject matter described therein, any divisional, intinuation, including any and all inventions, discoveries and other subject matter described therein, any divisional, intinuation, part, substitute, reissue, re-examination or other application claiming priority or benefit to the atent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby a assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an illustration to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and ademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the signed Applications and to record assignee's ownership thereof. At assignee's expense and to pro	WHEREAS (if the left box is checked), the Patent Ap Trademark Office on, Application Number	pplication was filed with the U.S. Patent and
mohitheatre Parkway. Mountain View. California 94043 (hereafter, the "assignee") is desirous of acquiring, or has equired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same;  NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree is follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the saigned Applications in the United States of America and all other countries, where "Assigned Applications" means the atent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, ontinuation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the atent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby to assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and rademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the assigned Applications and to record assignee's ownership thereof. At assignee's repasse and to provide other cooperation, uch as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigned Applications, singular to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision erein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the fending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the urpose of the offending provision.	nohitheatre Parkway. Mountain View. California 94043 (hereafter, the "assignee") is desirous of acquiring, or has equired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same;  NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree of follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the signed Applications in the United States of America and all other countries, where "Assigned Applications" means the atent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, intimation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the atent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and ademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the assigned Applications and to record assignee's ownership thereof. At assignee's reasonable request I agree, without other remuneration, to execute and deliver documents prepared at assignee's expense and to provide other cooperation, inch as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigned Applications. Sesignee may assign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the assignee may fix its signature to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision berein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the fending provision.	Jennifer Arden, Brian Douglas Cullinane, Min Li Chan, and Ren David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in	naud-Roland Hubert (and whereas I hereby authorize Lemer, brackets [Application No. 14/955,769], filed on
Is follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the signed Applications in the United States of America and all other countries, where "Assigned Applications" means the atent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, ontinuation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the atent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an oligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and rademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the ssigned Applications and to record assignee's ownership thereof. At assignee's reasonable request I agree, without orther remuneration, to execute and deliver documents prepared at assignee's repense and to provide other cooperation, such as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigned Applications, singular to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision erein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the fending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the unpose of the offending provision.  12/1/2015	is follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the assigned Applications in the United States of America and all other countries, where "Assigned Applications" means the atent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, nontinuation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the atent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an oligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and ademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the assigned Applications and to record assignee's ownership thereof. At assignee's reasonable request I agree, without other remuneration, to execute and deliver documents prepared at assignee's expense and to provide other cooperation, inch as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigned Applications, inch as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigned Applications. Singular to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision erein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the fending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the impose of the offending provision.  12/1/2015	Amphitheatre Parkway, Mountain View, California 94043 (her	reafter, the "assignee") is desirous of acquiring, or has
12/1/2015 Sixes Colorera Colorera	12/1/2015  SEXESCHARMOGRAFIE.	Assigned Applications in the United States of America and all Patent Application, including any and all inventions, discoveries continuation, continuation-in-part, substitute, reissue, re-example attent Application pursuant to any law or treaty, and any pate do assign, to assignee the right to claim such priority or beneficially beligation to convey, my rights in the Assigned Applications to Trademark Office, and any other governmental agency in the Assigned Applications and to record assignee's ownership the further remuneration, to execute and deliver documents prepared as testimony, as may be reasonably required to evidence Assignee may assign or transfer all or part of its rights set fortiaffix its signature to this document as well as any other indicial herein is unenforceable, the requirements of the provision shapefending portions thereof shall be deemed replaced, to the expression of the provision of the expression of the provision of the expression of the provision of the expression of the expression of the expression of the provision of the expression of the expression of the provision of the pro	other countries, where "Assigned Applications" means the es and other subject matter described therein, any divisional, nination or other application claiming priority or benefit to the ent issuing from the foregoing. I agree to assign, and hereby fit. I have not previously conveyed, nor am I aware of an o a third party. I hereby authorize the U.S. Patent and world, to issue to assignee all patents resulting from the ereof. At assignee's reasonable request I agree, without ared at assignee's expense and to provide other cooperation, we or protect assignee's rights in the Assigned Applications. It herein in its sole discretion. I agree that the assignee may a of its acceptance of the provisions hereof. If any provision all remain to the full extent permissible by law and the
12/1/2015	12/1/2015 SIXC83(XIARI9644FQ	burpose of the offending provision.	, OocuSigned by:
(Date) (Signature)	(Date) (Signature)	12/1/2015	Free allner
		(Date)	(Signature)

Docket Number (Optional)

GOOGLE 3.0F-1938 (E)

	GOOGLE S.OF. 4 (800 (E.)
WHEREAS, I, Min Li Chan of San Francisco, California, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "Pickup And Drop Off Zones For Autonomous Vehicles" (hereafter "Patent Application"),	
WHEREAS (if the left box is checked), the Patent Application was Trademark Office on, Application Number	
WHEREAS (if the left box is checked), the Patent Application na Jennifer Arden, Brian Douglas Cullinane, Min Li Chan, and Renaud-Roland David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Ap 12/2/15] the application number and filing date of the application.	<u>Hubert</u> (and whereas I hereby authorize Lerner, oplication No. 14/955, 769 , filed on
WHEREAS, <u>Google Inc.</u> , incorporated or otherwise formed in <u>De</u> <u>Amphitheatre Parkway</u> , <u>Mountain View</u> , <u>California</u> , <u>94043</u> (hereafter, the " acquired and is desirous of memorializing its acquisition further herein, the	assignee") is desirous of acquiring, or has
NOW, THEREFORE, for good and valuable consideration the reas follows. I agree to assign, and hereby do assign, to the assignee my e Assigned Applications in the United States of America and all other country. Patent Application, including any and all inventions, discoveries and other continuation, continuation-in-part, substitute, reissue, re-examination or of Patent Application pursuant to any law or treaty, and any patent issuing find assign, to assignee the right to claim such priority or benefit. I have no obligation to convey, my rights in the Assigned Applications to a third part Trademark Office, and any other governmental agency in the world, to iss Assigned Applications and to record assignee's ownership thereof. At assignether remuneration, to execute and deliver documents prepared at assign such as testimony, as may be reasonably required to evidence or protect Assignee may assign or transfer all or part of its rights set forth herein in it affix its signature to this document as well as any other indicia of its accepterein is unenforceable, the requirements of the provision shall remain to offending portions thereof shall be deemed replaced, to the extent possible purpose of the offending provision.	ntire right, title and interest in and to the ries, where "Assigned Applications" means the subject matter described therein, any divisional, ther application claiming priority or benefit to the om the foregoing. I agree to assign, and hereby at previously conveyed, nor am I aware of an y. I hereby authorize the U.S. Patent and ue to assignee all patents resulting from the signee's reasonable request I agree, without mee's expense and to provide other cooperation, assignee's rights in the Assigned Applications. Its sole discretion. I agree that the assignee may stance of the provisions hereof. If any provision the full extent permissible by law and the
12/1/2015	Decusigned by:
(Date)	(Signature)

Docket Number (Optional)

	GOOGLE 3.0F-1938 (E)
WHEREAS, I, Renaud-Roland Hubert of Gilroy, California, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "Pickup And Drop Off Zones For Autonomous Vehicles" (hereafter "Patent Application"),	
WHEREAS (if the left box is checked), the Patent Application with Trademark Office on, Application Number	
WHEREAS (if the left box is checked), the Patent Application na Jennifer Arden, Brian Douglas Cullinane, Min Li Chan, and Renaud-Roland David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [April 12/2/15] the application number and filing date of the application.	Hubert (and whereas I hereby authorize Lerner, pplication No. 14/955, 769 , filed on
WHEREAS, Google Inc., incorporated or otherwise formed in Dean Amphitheatre Parkway, Mountain View, California, 94043 (hereafter, the acquired and is desirous of memorializing its acquisition further herein, the	'assignee") is desirous of acquiring, or has
NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree as follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the Assigned Applications in the United States of America and all other countries, where "Assigned Applications" means the Patent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the Patent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby do assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and Trademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the Assigned Applications and to record assignee's ownership thereof. At assignee's reasonable request I agree, without further remuneration, to execute and deliver documents prepared at assignee's expense and to provide other cooperation, such as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigned Applications. Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the assignee may affix its signature to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision herein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the offending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the	
purpose of the offending provision.	DocuSigned by:
12/1/2015	Designation of the property of
(Date)	(Signature)

PATENT REEL: 041026 FRAME: 0528