

Form PTO-1595 (Rev. 05-11)
OMB No. 0651-0027 (exp. 03/31/2012)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Jiajun Zhu (07/11/2011), Michael Steven Montemerlo (07/12/2011), Christopher Paul Urmson (07/11/2011), and
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Google Inc.
Internal Address: _____
Street Address: _____

1600 Amphitheatre Parkway
Mountain View, California 94043

City: _____
State: _____
Country: _____ Zip: _____
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s): in parentheses after inventor name
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):
A. Patent Application No. (s)
13/181,999
Additional numbers attached? Yes No

This document is being filed together with a new application.
B. Patent No.(s)

 Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Noelle L. Cacciabeve
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK, LLP
Internal Address: Atty. Dkt., GOOGLE 3.0-352
Street Address: 600 South Avenue West

City: Westfield
State: NJ Zip: 07090
Phone Number: (908) 654-5000
Fax Number: (908) 654-0415
Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
Deposit Account Number 12-1095
Authorized User Name Noelle L. Cacciabeve

9. Signature:
Noelle L. Cacciabeve Signature
Date July 25, 2011
Noelle L. Cacciabeve - 63,075 Name of Person Signing
Total number of pages including cover sheet, attachments, and documents: 6

CH \$40.00 121095 13181999

**RECORDATION FORM COVER SHEET (PTO-1595)
(supplemental sheet)**

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Andrew Chatham (06/20/2011)

Additional Assignees (2. Continued):

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ Country: _____ Zip: _____


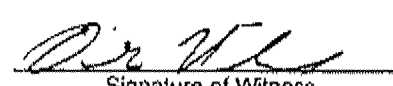
Additional Applications and/or Patents (4. Continued):



Additional Patent Application Numbers
4A. Continued.

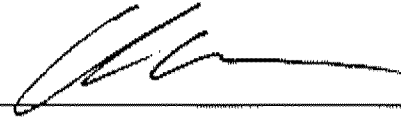
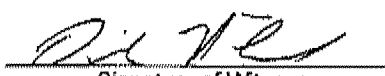
Additional Patent Numbers
4B. Continued.

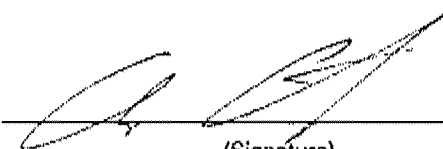

Additional numbers attached?

Yes No

<p style="text-align: center;">ASSIGNMENT OF PATENT APPLICATION</p>	<p style="text-align: center;">Docket Number (Optional) GOOGLE 3.0-352</p>
<p>WHEREAS, I, <u>Jiajun Zhu of 421 Paria Terrace, Sunnyvale, California 94089</u>, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "OBJECT DETECTION AND CLASSIFICATION FOR AUTONOMOUS VEHICLES" (hereafter "Patent Application"),</p> <p><input type="checkbox"/> WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on _____, Application Number _____, and</p> <p><input checked="" type="checkbox"/> WHEREAS (if the left box is checked), the Patent Application names the following inventors: <u>Jiajun Zhu, Michael Steven Montemerlo, Christopher Paul Urmson, and Andrew Chatham</u> (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Montlik, L.P., to insert in here in brackets [Application No. <u>13/181,999</u>, filed on <u>7-13-11</u>] the application number and filing date of the application when known), and</p> <p>WHEREAS, <u>Google Inc.</u>, incorporated or otherwise formed in <u>Delaware</u> and having a place of business at <u>1600 Amphitheatre Parkway, Mountain View, California 94043</u> (hereafter, the "assignee") is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same;</p> <p>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.</p> <p style="text-align: center;"> <u>7/11/2011</u> _____ (Date) </p> <p style="text-align: center;">  _____ (Signature) </p> <p style="text-align: center;">  _____ Signature of Witness </p> <p style="text-align: center;"> <u>DIRK HANDEL</u> _____ Printed Name of Witness </p>	

ASSIGNMENT OF PATENT APPLICATION	Docket Number (Optional) GOOGLE 3.0-352
<p>WHEREAS, I, <u>Michael Steven Montemerlo of 2306 Jane Lane, Mountain View, California 94043</u>, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "OBJECT DETECTION AND CLASSIFICATION FOR AUTONOMOUS VEHICLES" (hereafter "Patent Application"),</p>	
<p><input type="checkbox"/> WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on _____, Application Number _____, and</p>	
<p><input checked="" type="checkbox"/> WHEREAS (if the left box is checked), the Patent Application names the following inventors: <u>Jiajun Zhu, Michael Steven Montemerlo, Christopher Paul Urmson, and Andrew Chatham</u> (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. <u>13/181,999</u>, filed on <u>7-13-11</u>] the application number and filing date of the application when known), and</p>	
<p>WHEREAS, <u>Google Inc.</u>, incorporated or otherwise formed in <u>Delaware</u> and having a place of business at <u>1600 Amphitheatre Parkway, Mountain View, California 94043</u> (hereafter, the "assignee") is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same;</p>	
<p>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.</p>	
<p><u>7/12/11</u> _____ (Date)</p>	<p> _____ (Signature)</p>
<p> _____ Signature of Witness</p> <p><u>DMITRI DOGOV</u> _____ Printed Name of Witness</p>	

ASSIGNMENT OF PATENT APPLICATION	Docket Number (Optional) GOOGLE 3.0-352
<p>WHEREAS, I, <u>Christopher Paul Urmson of 218 Central Avenue, Mountain View, California 94043</u>, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "OBJECT DETECTION AND CLASSIFICATION FOR AUTONOMOUS VEHICLES" (hereafter "Patent Application"),</p>	
<p><input type="checkbox"/> WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on _____, Application Number _____, and</p>	
<p><input checked="" type="checkbox"/> WHEREAS (if the left box is checked), the Patent Application names the following inventors: <u>Jijun Zhu, Michael Steven Montemerlo, Christopher Paul Urmson, and Andrew Chatham</u> (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Montlik, LLP, to insert in here in brackets [Application No. <u>13/181,999</u>, filed on <u>7-13-11</u>] the application number and filing date of the application when known), and</p>	
<p>WHEREAS, <u>Google Inc.</u>, incorporated or otherwise formed in <u>Delaware</u> and having a place of business at <u>1600 Amphitheatre Parkway, Mountain View, California 94043</u> (hereafter, the "assignor") is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same;</p>	
<p>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.</p>	
<p><u>July 11, 2011</u> (Date)</p>	<p> (Signature)</p>
<p> Signature of Witness</p>	
<p><u>DIRK HANDEL</u> Printed Name of Witness</p>	

ASSIGNMENT OF PATENT APPLICATION	Docket Number (Optional) GOOGLE 3.0-352
<p>WHEREAS, I, <u>Andrew Chatham of 500 Broome Street, Floor 4, New York, New York 10013</u>, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "OBJECT DETECTION AND CLASSIFICATION FOR AUTONOMOUS VEHICLES" (hereafter "Patent Application"),</p> <p><input type="checkbox"/> WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on _____, Application Number _____, and</p> <p><input checked="" type="checkbox"/> WHEREAS (if the left box is checked), the Patent Application names the following inventors: <u>Jiajun Zhu, Michael Steven Montomero, Christopher Paul Urmeon, and Andrew Chatham</u> (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. <u>13/181,999</u>, filed on <u>7-13-11</u>] the application number and filing date of the application when known), and</p> <p>WHEREAS, <u>Google Inc., incorporated or otherwise formed in Delaware and having a place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043</u> (hereafter, the "assignee") is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same;</p> <p>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.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p><u>June 20, 2011</u></p> <p>(Date)</p> </div> <div style="text-align: center;">  <p>(Signature)</p> </div> </div> <div style="margin-top: 20px;"> <p><u></u></p> <p>Signature of Witness</p> <p><u>Walton Lin</u></p> <p>Printed Name of Witness</p> </div>	