

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yaowu Xu</td> <td>10/05/2012</td> </tr> <tr> <td>Paul Gordon Wilkins</td> <td>10/05/2012</td> </tr> <tr> <td>James Bankoski</td> <td>10/05/2012</td> </tr> <tr> <td>Adrian William Grange</td> <td>10/05/2012</td> </tr> </tbody> </table>	Name	Execution Date	Yaowu Xu	10/05/2012	Paul Gordon Wilkins	10/05/2012	James Bankoski	10/05/2012	Adrian William Grange	10/05/2012	
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Yaowu Xu	10/05/2012										
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Adrian William Grange	10/05/2012										
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:	13647076										
CORRESPONDENCE DATA											
Fax Number:	2486493338										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	GOGL-853-A										
NAME OF SUBMITTER:	Andrew R. Basile, Jr.										
Total Attachments: 2 source=GOGL853A_ExecutedAssign (00020518)#page1.tif source=GOGL853A_ExecutedAssign (00020518)#page2.tif											

CH \$40.00 13647076

ASSIGNMENT AND AGREEMENT

WHEREAS, Yaowu Xu of Santa Clara, CA, Paul Gordon Wilkins of Cambridge, UK, James Bankoski of Los Gatos, CA, and Adrian William Grange of Los Gatos, CA, (hereinafter referred to as "ASSIGNORS") have invented a certain invention entitled DETERMINE REFERENCE MOTION VECTORS as set forth in this United States Patent Application,

☐ executed concurrently herewith
☐ executed on _____
☒ Serial No. 13/647,076 Filed October 8, 2012

WHEREAS, Google Inc., a corporation organized under the laws of the state of Delaware, having a place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043, ("ASSIGNEE"), desires to acquire the entire right, title, and interest in and to said invention;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS have sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNORS HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNORS HEREBY AGREE (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNORS respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and

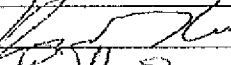
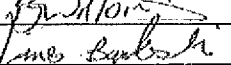
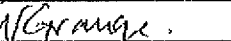
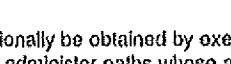
Attorney Docket No.: GOGL-853-A

(d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNORS HEREBY REPRESENT AND WARRANT that ASSIGNORS have the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNORS have not executed and will not execute any document or instrument in conflict herewith.

ASSIGNORS HEREBY GRANT to the law firm of Young Basile Hanlon & MacFarlane, P.C. the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNORS UNDERSTAND AND AGREE that the attorneys and agents of the law firm of Young Basile Hanlon & MacFarlane, P.C. do not personally represent ASSIGNORS or ASSIGNORS' legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNORS with respect to this Assignment, ASSIGNORS acknowledge their right to seek their own independent legal counsel.

NAME(S) AND SIGNATURE OF ASSIGNOR		
Name: Yaowu Xu	Signature: 	Date: 10/15/2012
Name: Paul Gordon Wilkins	Signature: 	Date: 10/5/2012
Name: James Bankoski	Signature: 	Date: 10/5/2012
Name: Adrian William Grange	Signature: 	Date: 10/5/2012

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.