orm PTO-1595 (Rev. 03-11) MB No. 0851-0027 (exp. 03/31/2015)	บ S DEPARTMENT OF COMMERCE United States Petent and Trademark Office	
RECORDATION FORM COVER SHEET  PATENTS ONLY		
1. Name of conveying party(ies):	2. Name and address of receiving party(les)	
Kenneth Ryan Loo (08/28/2012) and Leng Ooi	Name: Google Inc.	
(08/29/2012)	Internal Address:	
Additional name(s) of conveying party(les) attached?	Street Address:	
3. Nature of conveyance/Execution Date(s):		
Execution Date(s): in parentheses after inventor name	1600 Amphitheatre Parkway	
x Assignment Merger Change of Name		
Security Agreement Joint Research Agreement	City: Mountain View	
Government Interest Assignment	State California	
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 94043	
Other	Additional name(s) & eddress(es) Yes X No attached?	
A. Patent Application No.(s)     13/606,744  Additional numbers attached	B. Palent No.(s)	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: Andrew T. Zidel  LERNER, DAVID, LITTENBERG,  KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00	
Internal Address: Atty. Dkt.: GOOGLE 3.0-722 Street Address: 600 South Avenue West	Authorized to be charged to deposit account     Enclosed	
	None required (government interest not affecting title	
City: Westfield	8. Payment information	
State: NJ zip: 07090		
Phone Number: 908-654-5000	40.4005	
Fax Number: 908-654-7866	Deposit Account Number 12-1095  Authorized User Name Andrew T. Zidel	
Email Address: ataylor@ldlkm.com	, Marian and a second a second and a second	
9. Signature:	A	
	September 20, 2012 Date	
Andrew T. Zidel - 45,256	Total number of pages including cover sheet, attachments, and documents:	

PATENT REEL: 029053 FRAME: 0188

WHEREAS, I, Kenneth Ryan Loo of 5570 Dent Avenue; San Jose, California 951 discovered inventions or discoveries, the subject matter of which is described in the patent (INTEGRATED I/O OPENING* (hereefter "Patent Application"),  WHEREAS (If the left box is checked), the Patent Application was filed with the U. Trademark Office on, Application Number, and  WHEREAS (if the left box is checked), the Patent Application names the following Kenneth Ryan Loo and Leng Qoi (and whereas I hereby authorize Lemer, David, Littenberg, Insert in here in brackets (Application No	8, have invented or pplication entitled "SWITCH		
WHEREAS, I, Kenneth Ryan Loo of 5570 Dent Avenue; San Jose, California 951 discovered inventions or discoverlas, the subject matter of which is described in the patent of INTEGRATED I/O OPENING" (hereefler "Patent Application").  WHEREAS (If the left box is checked), the Patent Application was filed with the U. Trademark Office on, Application Number, and	8, have invented or pplication entitled "SWITCH		
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WHEREAS (if the left box is checked), the Patent Application names the following Kenneth Ryan Loo and Leng Qoi (and whereas I hereby authorize Lemer, David, Littenberg, Insert in here in brackets [Application No. 13/606,744 filed on 9-7-12 filing date of the application when known), and  WHEREAS, Google Inc., incorporated or otherwise formed in Delaware and havin Amphitheetre Parkway: Mountain View, California 94043 (hereafter, the "assignee") is desi acquired and is desirous of memorializing its acquisition further herein, the entire right, title as follows. I agree to assign, and hereby do assign, to the assignee my entire right, title as follows. I agree to assign, and hereby do assign, to the assignee my entire right, title as follows. I agree to assign, and all inventions, discoveries and other subject matter do continuation, continuation-in-part, substitute, relssue, re-examination or other application of Patent Application pursuant to any law or treaty, and any patent issuing from the foregoing, do assign, to assignee the right to claim such priority or benefit. I have not previously convobiligation to convey, my rights in the Assigned Applications to a third party. I hereby author Trademark Office, and any other governmental agency in the world, to issue to assignee a Assigned Applications and to record assignee's ownership thereof. At assignee's reasonat further remuneration, to execute and deliver documents prepared at assignee's expense at such as testimony, as may be reasonably required to evidence or protect assignee's rights Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion. affix its signature to this document as well as any other Indicia of its acceptance of the province in unenforceable, the requirements of the provision shall remain to the full extent per offending portions thereof shall be deemed replaced, to the extent possible, with a provision purpose of the offending provision.	Patent and		
Kenneth Ryan Loo and Leng Qoi (and whereas I hereby authorize Lemer, David, Entenberg, Insert in here In brackets [Application No. 13/606, 744, filed on 9-7-12 filing date of the application when known), and  WHEREAS, Google Inc., incorporated or otherwise formed in Delaware and havin Amphitheetre Parkway; Mountain View, California 94043 (hereafter, the "assignee") is desi acquired and is desirous of memorializing its acquisition further herein, the entire right, title an Assigned Applications in the United States of America and all other countries, where "Assigned Application, including any and all inventions, discoveries and other subject matter de continuation, continuation-in-part, substitute, relessue, re-examination or other application of Patent Application pursuant to any law or treaty, and any patent issuing from the foregoing do assign, to assignee the right to claim such priority or benefit. I have not previously convoligation to convey, my rights in the Assigned Applications to a third party. I hereby author Trademark Office, and any other governmental agency in the world, to issue to assignee al Assigned Applications and to record assignee's ownership thereof. At assignee's expense at such as testimony, as may be reasonably required to evidence or protect assignee's rights Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion affix its signature to this document as well as any other Indicia of its acceptance of the provheren is unenforceable, the requirements of the provision shall remain to the full extent per offending portions thereof shall be deemed replaced, to the extent possible, with a provision purpose of the offending provision.	WHEREAS (If the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on, Application Number, and		
Amphitheetre Parkway: Mountein View, California 94043 (hereefter, the "assignee") is desi acquired and is desirous of memorializing its acquisition further herein, the entire right, title NOW, THEREFORE, for good and valuable consideration the receipt of which is the asteroidal states of America and all other countries, where "Assigned Applications in the United States of America and all other countries, where "Assignet Application, including any and all inventions, discoveries and other subject matter do continuation, continuation-in-part, substitute, releasue, re-examination or other application of Patent Application pursuant to any law or treaty, and any patent issuing from the foregoing do assign, to assignee the right to claim such priority or benefit. I have not previously convobligation to convey, my rights in the Assigned Applications to a third party. I hereby author Trademark Office, and any other governmental agency in the world, to issue to assignee Assigned Applications and to record assignee's ownership thereof. At assignee's reasonat further remuneration, to execute and deliver documents prepared at assignee's expense at such as testimony, as may be reasonably required to evidence or protect assignee's rights Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion, affix its signature to this document as well as any other Indicia of its acceptance of the province in unenforceable, the requirements of the provision shall remain to the full extent per offending portions thereof shall be deemed replaced, to the extent possible, with a provision purpose of the offending provision.	Kenneth Rvan Loo and Leng Qoi (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to Insert in here in brackets (Application No. 13/606, 744, filed on 9-7-12 the application number and		
as follows. I agree to assign, and hereby do assign, to the assignee my entire right, title an Assigned Applications in the United States of America and all other countries, where "Assignet Application, including any and all inventions, discoveries and other subject matter do continuation, continuation-in-part, substitute, reissue, re-examination or other application of Patent Application pursuant to any law or treaty, and any patent issuing from the foregoing do assign, to assignee the right to claim such priority or benefit. I have not previously convobiligation to convey, my rights in the Assigned Applications to a third party. I hereby author Trademark Office, and any other governmental agency in the world, to issue to assignee Assigned Applications and to record assignee's ownership thereof. At assignee's reasonat further remuneration, to execute and deliver documents prepared at assignee's expense at such as testimony, as may be reasonably required to evidence or protect assignee's rights Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion, affix its signature to this document as well as any other indicia of its acceptance of the provision is unenforceable, the requirements of the provision shall remain to the full extent per offending portions thereof shall be deemed replaced, to the extent possible, with a provision purpose of the offending provision.	WHEREAS, <u>Google Inc.</u> , incorporated or otherwise formed in <u>Delaware</u> and having a place of business at <u>1600</u> <u>Amphitheetre 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;		
8/28/12 / (Date) (Sign	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, relissue, 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 hereof 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.		
8/28/ 2 (Date) (Sign			
,	ature)		
Signature of Witness  Felix 41000-2.  Printed Name of Wilness			

LDLKM

PATENT REEL: 029053 FRAME: 0189

RECORDED: 09/20/2012

	Docket Number (Optional)	
ASSIGNMENT OF PATENT APPLICATION	Docker Humber (Optional)	
VOOLOMBELL OF LATERIA VELERATION	GOOGLE 3.0-722	
WHEREAS, I. <u>Leng Qol</u> of <u>1386 Redmond Avenue</u> ; <u>San Jose, California 95120</u> , have Invented or discovered Inventions or discoveries, the subject matter of which is described in the patent application entitled "SWITCH INTEGRATED I/O OPENING" (hereafter "Patent Application"),		
WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on, Application Number, and		
WHEREAS (If the left box is checked), the Palent Application names the following inventors:  Kenneth Ryan Loo and Leng Qoi (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. 13/606,744], filed on 9-7-12 ] the application number and filing date of the application when known), and		
WHEREAS, <u>Google Inc.</u> , incorporated or otherwise formed in <u>Delaware</u> and having a place of business at <u>1600</u> <u>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;		
NOW, THEREFORE, for good and valuable consideration the reas follows. I agree to essign, and hereby do assign, to the assignee my exasigned 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. Assignther remuneration, to execute and deliver documents prepared at assign such as testimony, as may be reasonably required to evidence or protect. Assignee may essign 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 accepherein 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.	acelpt of which is hereby acknowledged, I agree writine 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 orn 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 use to assignee all patents resulting from the signee's reasonable request I agree, without gree's expense and to provide other cooperation, assignee's rights in the Assigned Applications, to sole discretion. I agree that the assignee may betance of the provisions hereof. If any provision the full extent permissible by law and the	
Fel's Alvarez Printed Name of Witness		
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PATENT

REEL: 029053 FRAME: 0190