orm PTO-1595 (Rev. 03-11) MB No. 0851-0027 (exp. 03/31/2015)	U.S. DEPARTMENT OF COMMERCE United States Petent and Trademark Office	
RECORDATION FOR		
PATENTS ONLY		
To the Director of the U.S. Patent and Trademark Office: Please		
1. Name of conveying party(les):	2. Name and address of receiving party(les)	
Dragomir Anguelov (04/22/2009), Abhijit S. Ogale (04/25/2009), Ehud Rivlin (04/21/2009), and Jay Yagnik (04/22/2009) Additional name(s) of conveying party(les) attached? Yes X No	Name: Google Inc. Internal Address: Street Address:	
3. Nature of conveyance/Execution Date(s):		
Execution Date(s): in parentheses after Inventor name X Assignment Merger Change of Name Security Agreement Joint Research Agreement	1600 Amphitheatre Parkway City:	
Government Interest Assignment	State: California	
Executive Order 9424, Confirmatory License Other	Country: United States of America Zlp: 94043 Additional name(s) & address(es) Yes X No attached?	
14/055,242 Additional numbers attached	7 Yes X No	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: Cicero H. Brabham, Jr. LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
Internal Address: Atty. Dkt.: GOOGLE 3.0-036 CON 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	
Stale: NJ Zip: 07090		
Phone Number: 908-654-5000		
Fax Number: 908-654-7866	Deposit Account Number 12-1095	
Email Address: mcormier@ldlkm.com	Authorized User Name Cicero H. Brabham, Jr.	
9. Signature: Signature	October 24, 2013 Date	
Cicero H. Brabham, Jr 66,809 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:	

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PATENT REEL: 031558 FRAME: 0416

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	Docket Number (Optional)	
ASSIGNMENT OF APPLICATION	GOOGUE 3.0-036	
WHEREAS, I, Dragomir Anguelov of 211 Comwall Street; #2.; San Francisco, California 94118, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application initited "AUTOMATIC VIDEO AND DENSE IMAGE-BASED GEOGRAPHIC INFORMATION MATCHING AND PROWSING" (hereafter "Patent Application").		
WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and ademark Office on Application Number, and		
WHEREAS (If the left box is checked), the Patent Application names the following inventors: Oragomir Anguelov, Abhijit Ogale, Ehud Rivlin and Jay Yagrik (and whereas I hereby authorize Lemer, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets (Application No. 12/431,279 filed on 04/28/09] the application number and filing date of the application when known), and		
WHEREAS, Google Inc., Incorporated in Delaware and havin Perkway, Mountain View, California 94043 (hereafter, the "assignee" and is desirous of memorializing its acquisition further herein, the entir	"), is desirous of acquiring, or has acquired	
NOW, THEREFORE, for good and valuable consideration the agree as follows. I agree to assign, and hereby do assign, to assign the Assigned Applications in the United States of America and all off means: the Patent Application, including any and all Inventions, distinction; any divisional, continuation, continuation-in-part, substitute, claiming priority to or benefit of the Petent Application pursuant to an the foregoing. I agree to assign, and hereby do assign, to assign Applications, including but not limited to the right to file applications to the Assigned Applications. I have not previously conveyed, nor am in the Assigned Applications to a third party. I hereby authorize the other governmental agency in the world, to issue to assignee all pate and to record assignee's ownership thereof. At assignee's referenteership, to execute and deliver documents prepared at accoperation, such as testimony, as may be reasonably required to Assigned Applications. Assignee may assign or transfer all or part of permissible by law and the offending portions thereof shell be deep provision most closely reflecting the purpose of the offending provision	se my entire right, title and interest in and to her countries, where "Assigned Applications" coveries and other subject matter described reissue, re-examination or other application by law or treaty, and; any patent issuing from the right to claim priority to the Assigned laiming the priority or benefit of the filling date it aware of an obligation to convey, my rights U.S. Patent and Trademark Office, and any ents resulting from the Assigned Applications assonable request 1 agree, without orther evidence or protect assignee's rights in the its rights set forth herein in its sole discretion, the provision shall remain to the full extent med replaced, to the extent possible, with a	
<u>04/z2/09</u> (Date)		
(Date)	(Signature)	
WITNESSED BY:	•	
By: (Signature)		
Name: LUC VINCENT (Typed or Printed Name)		
*Total offorms are submitted.		
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PATENT REEL: 031558 FRAME: 0417

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100000000000000000000000000000000000000	Docket Number (Optional)
ASSIGNMENT OF APPLICATION	GOOGLE 3 0-036
WHEREAS, I. Abhijii Ogale of 100 N. Whisman Road, Apt. I vented or discovered inventions or discoveries, the subject matter of the AUTOMATIC VIDEO AND DENSE IMAGE-BASED GEOGROWSING" (hereafter "Patent Application").	RAPHIC INFORMATION MATCHING AND
WHEREAS (if the left box is checked), the Patent Application Number	
WHEREAS (If the left box is checked), the Patent Applicat nguelov, Abhijit Ogale, Ehud Rivlin and Jay Yagnik (and whereas rumhetz & Mentilii. LLP, to insent in here in brackets (Appl 04/28/09). The application number and filing date of the application number and filing date of the application number and filing date.	ion names the following inventors. Dragomii I hereby authorize Lerner, David, Littenberg, ication No. 12/431,279 filed on ication when known), and
WHEREAS Google Inc., incorporated in Delaware and having any Mountain View, California 94043 (hereafter, the "assigned in a desting of memorializing its acquisition further herein, the entities as the call of the call in the call of t	ng a place of business at 1600 Amphitheatre "), is destrous of acquiring, or has acquired a right, title and interest in same.
PROW THEREFORE, for good and valuable consideration the greens follows. Fagree to assign, and hereby do assign, to assign and Applications in the United States of America and all of search applications in the United States of America and all of search applications in the United States of America and all of search applications of the Application pursuant to all similing priprity to or benefit of the Patent Application pursuant to all independent of a season and hereby do assign, to assign a foregoing. I agree to assign, and hereby do assign, to assign applications including but not limited to the right to file applications of the Assigned Applications. I have not previously conveyed, nor and the Assigned Applications to a third party. I hereby authorize the their governmental agreecy in the world, to issue to assignee all patent vector assignee's ownership thereof. At assignee's representation, to execute and deliver documents prepared at coperation, such as testimony, as may be reasonably required to any provision bergunder is unenforceable, the requirements of any provision bergunder is unenforceable, the requirements of any provision bergunder is unenforceable, the requirements of	her countries, where "Assigned Applications" coveries and other subject matter described felsaue, re-examination or other application by law or treaty, and; any patent issuing from the right to claim priority to the Assigned claiming the priority or benefit of the thing date in Laware of an obligation to convey, my rights t.U.S. Patent and Trademark Office, and any ents resulting from the Assigned Applications easonable request 1 agree, without further assignee's expense and to provide other evidence or protect assignee's rights in the lits rights set forth herein in its sole discretion, the provision shall remain to the full extent smed replaced, to the extent possible, with a
rovision most closely reflecting the purpose of the offending provision	, I
4/25/09	Mhy 1 5 Ogarum
(Date)) (Signatura)
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NITNESSED BY:	
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By (Signature)	ļ
(Signature)	
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Name DRAGOMIR ANGUGLOV (Typed or Printed Name)	
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1987 July 1 Den.	

PATENT REEL: 031558 FRAME: 0418

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	Docket Number (Optional)
ASSIGNMENT OF APPLICATION	GOOGLE 3.0-036
WHEREAS, I, Ehud Rivlin of 2 Lincoln St.: #7; 34369 Hanventions or discoveries, the subject matter of which is described in the AND DENSE IMAGE-BASED GEOGRAPHIC INFORMATION Patent Application"),	ma dalant addiication curtico wotowing i
WHEREAS (if the left box is checked), the Petent Application Number	cation was filled with the U.S. Palent and, and
WHEREAS (If the left box is checked), the Patent Applications and Jay Yagnik (and whereas krumholz & Mentilik, LLP, to insert in here in brackets [Application number and filing date of the application number and filing date.	ication No. 12/431,279 filed on
WHEREAS, Google Inc., incorporated in Delaware and having Parkway, Mountain View, California 94043 (hereafter, the "assignee and is desirous of memorializing its acquisition further herein, the entire	"). IS CESTOUR OF ECCUINING, OF 1122 SUNDINGS
NOW, THEREFORE, for good and valuable consideration the agree as follows. I agree to assign, and hereby do assign, to assign the Assigned Applications in the United States of America and all off means: the Patent Application, including any and all inventions, distriction; any divisional, continuation, continuation-in-part, substitute, claiming priority to or benefit of the Patent Application pursuant to arithe foregoing. I agree to assign, and hereby do assign, to assign Applications, including but not limited to the right to file applications of the Assigned Applications. I have not previously conveyed, nor an in the Assigned Applications to a third party. I hereby authorize the other governmental agency in the world, to issue to assignee all pate and to record assignee's ownership thereof. At assignee's referemmentation, to execute and deliver documents prepared at cooperation, such as testimony, as may be reasonably required to Assigned Applications. Assignee may assign or transfer all or part of if any provision hereunder is unenforceable, the requirements of permissible by law and the offending portions thereof shall be deeprovision most closely reflecting the purpose of the offending provision	se my-entire right, this and interest it and to her countries, where "Assigned Applications" coverles and other subject matter described reissue, re-examination or other application by law or treaty, and; any patent issuing from the right to claim priority to the Assigned diaming the priority or benefit of the filling date in I aware of an obligation to convey, my rights to U.S. Patent and Trademark Office, and any ents resulting from the Assigned Applications resoluting from the Assigned Applications resoluting from the Assigned Supplications resolutions are provided to the revidence or protect assignees rights in the rist rights set forth herein in its sole discretion, the provision shall remain to the full extent med replaced, to the extent possible, with a m.
4. 27. 09	(Signature)
(Date)	(Signature)
WITNESSED BY:	
By: (Signature)	
Name: VC N NCENT (Typed or Printed Name)	
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	Docket Number (Optional)
ASSIGNMENT OF APPLICATION	GOOGLE 3.0-036
WHEREAS, I, Jay Yagnik of 600 Rainbow Drive, Apt. ovented or discovered inventions or discoveries, the subject matter initial "AUTOMATIC VIDEO AND DENSE IMAGE-BASED GEO BROWSING" (hereafter "Pateri Application").	
WHEREAS (if the left box is checked), the Patent Ap	plication was filed with the U:S. Patent and
WHEREAS (if the left box is checked), the Patent Applic Anguetov, Abhijit Ogste, Ehud Rivlin and Jay Yagnik (and where Krumholz & Mentik, LLP, to insert in here in brackets [A] 04/28/09] the application number and filing date of the application number.	tation names the following inventors: Oragomir as I hereby authorize Ferner. David, Littenberg, policiation, No. 12/431, 279, filed on
WHEREAS, Google Inc., incorporated in Delaware and hi Parkway, Mountain View, California 94043 (hereafter, tha "assign and is desirous of memorializing its acquisition further herein, the e	IDD I IS CESTIONS OF SECTION OF AN AND ANALYSIS I
NOW, THEREFORE, for good and valuable consideration agree as follows. I agree to assign, and hereby do assign, to assigned Applications in the United States of America and all means; the Patent Application, including any and all inventions, therein; any divisional, continuation, continuation-in-part, substituctaiming priority to or benefit of the Patent Application pursuant to the foregoing. I agree to assign, and hereby do assign, to assign applications, including but not limited to the right to file application of the Assigned Applications. I have not previously conveyed, nor in the Assigned Applications to a third party. I hereby authorize other governmental agency in the world, to issue to assignee all and to record assignee's ownership thereof. All assignee's remuneration, to execute and deliver documents prepared a cooperation, such as testimony, as may be reasonably required Assigned Applications. Assignee may assign or transfer all or part if any provision heraunder is unenforceable, the requirements permissible by law and the offending portions thereof shall be corrected.	other countries, where "Assigned Applications" discoveries and other subject matter described to, release, re-examination or other application any law or treaty, and; any patent issuing from ignee the right to claim priority to the Assigned and I aware of an obligation to convey, my rights the U.S. Patent and Trademark Office, and any patents resulting from the Assigned Applications reasonable request I agree, without further to evidence or protect assignee's rights in the of its rights set forth herein in its sole-discretion, of the provision shall remain to the full extent islamed replaced, to the extent possible, with a signer.
04/22/2009 (Date)	(Signeture)
. (Date)	* (Signatura)
WITNESSED BY:	
By: A King (Signature)	
	,
Name: Henry A. Rowley (Typed or Printed Name)	
'Total of forms are submitted.	
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PATENT

REEL: 031558 FRAME: 0420