Form <b>PTO-1595</b> (Rev. 03-11) DMB No. 0651-0027 (exp. 03/31/ <u>2</u> 015)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office	
RECORDATION FORM COVER SHEET PATENTS ONLY		
	e record the attached documents or the new address(es) below.	
Name of conveying party(ies):	2. Name and address of receiving party(les)	
Boris Babenko (12/14/2009), Hartwig Adam		
(12/15/2009), John Flynn (12/17/2009), and	Name: Google Inc.	
Hartmut Neven (12/17/2009)	Internal Address:	
Additional name(s) of conveying party(les) attached? Yes X No	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	
	Additional name(s) & address(es) Yes X No	
Other	- attached?	
Additional numbers attached	d? Yes X No	
5. Name and address to whom correspondence concerning document should be malled:	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 3.0-133 CON		
Street Address: 600 South Avenue West	X Authorized to be charged to deposit account	
	Enclosed	
	None required (government interest not affecting title	
Clty: Westfield	8. Payment Information	
State: NJ Zip: 07090	_	
Phone Number: 908-654-5000	_	
Fax Number: 908-654-7866	Deposit Account Number 12-1095	
Email Address: ataylor@ldlkm.com	Authorized User Name Andrew T. Zldel	
9. Signature:		
	July 25, 2012	
Signature	Date	
Andrew T. Zidel - 45,256	Total number of pages including cover sheet, attachments, and documents.	

2743889

**PATENT** REEL: 028641 FRAME: 0445

700490185

ASSIGNMENT OF PATENT APPLICATION	Docket Number (Optional)	
ASSIGNMENT OF FAIRM AFFLICATION	GOOGLE 3.0-133	
WHEREAS, I, <u>Boris Babenko</u> of <u>43 W Yale Loop: Irvine</u> , <u>California 92504</u> , have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "SCENE CLASSIFICATION FOR PLACE RECOGNITION" (hereafter "Petent Application"),		
X WHEREAS (If the left box is checked), the Patent Application was filed with the U.S. Petent and Trademark Office on December 7, 2009, Application Number 12/632,284, and		
WHEREAS (if the left box is checked), the Petent Application names the following inventors:  (and whereas I hereby authorize Lerner, David, Littenberg, Krumhoiz & Mentilk, LLP, to insert in here in brackate [Application No filed on the application number and filing date of the application when known), and		
WREREAS, <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 84043</u> (hereafter, the "assignee") is decirous of acquiring, or has acquired and is dealrous of memorializing its acquialtion 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 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 Assigned Applications in the Assigned Applications in the Assigned Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation, continuation-in-part, substitute, release, 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 essignee 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 effending provision.		
12/14/2009	But Sto	
(Date)	(Signature)	
Signature of Witness  Seroe Belong!  Printed Name of Witness		

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	Docket Number (Optional)	
ADDIONMENT OF BATCHT ADDITOATION	Pomor (duings) (obtains)	
ASSIGNMENT OF PATENT APPLICATION	GOOGLE 3.0-133	
WHEREAS, I, <u>Highwig Adam</u> of <u>13082 Mindaneo Way #27: Marina Del Rey, California 90292</u> , have invented or discovered inventions or discoveres, the subject matter of which is described in the patient application entitled "SCENE CLASSIFICATION FOR PLACE RECOGNITION" (hereafter "Patient Application"),		
WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Petent and Trademark Office on December 7, 2009, Application Number 12/632,284, and		
WHEREAS (If the left box is checked), the Petent Application names the following inventors: (and whereas I hereby authorize Lerner, David, Littanberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No, filed on] the application number and filing date of the application when known), and		
WHEREAS, Google Inc., incorporated or otherwise formed in <u>Delaware</u> and having a place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043 (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 receipt of which is hereby scknowledged, 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, release, re-examination or other application claiming priority or benefit to the Patent Application pursuant to any law or treety, 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 Tredemark 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 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 est forth herein in its societion. I agree that the assignee may sfilk its eignature to this document as well as any other indicis of its acceptance of the provisions hereof, if any provision herein is unaniforceable, the requirements of the provision shall remain to the full extent permissible by lew 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.		
12/15/2009	A Alam	
12/15/200 T /	(Signature)	
Signature of Witness Jiayong Zhang	·	
Funition waters of Anthess		

PATENT

REEL: 028641 FRAME: 0447

<u> </u>	Docket Number (Optional)	
ASSIGNMENT OF PATENT APPLICATION	Ducket Mullider (Optional)	
	GOOGLE 3.0-135	
WHEREAS, I, John Flynn of 3115 Strongs Drive. Apartment A: Marina Del Rev. California, 90292, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "SCENE CLASSIFICATION FOR PLACE RECOGNITION" (hereafter "Patent Application"),  WHEREAS (If the left box is checked), the Patent Application was filed with the U.S. Patent and		
Trademark Office on December 7, 2009, Application Number 12/832,		
WHEREAS (If the left box is checked), the Patent Application names the following inventors:  (and whereas I hereby authorize Lemer, David, Ultenberg, Kruimholz & Mentilk, LLP, to insert in here in brackets  [Application No		
WHEREAS. <u>Goode Inc.</u> , Incorporated or otherwise formed in 1600 Amohitheatre Parkway. Mountain View, California 94043 (hared or has acquired and is desirous of mamorializing its acquisition further same;	efter, the "assignee") is desirous of scquiring, ir herein, the entire right, title and interest in	
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 Tradement 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 indical 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.		
17/17/20		
(Date)	(Signature)	
Signatural of Wiliness  Printed Name of Witness		

REEL: 028641 FRAME: 0448

RECORDED: 07/25/2012

WHEREAS, I, Hartmul Nevan of 4107 Excendido Drive: Mellau, California, 80285, have invented or discovered inventions or discovered subsections, the subject metitor of which is described in the patient application entitled "SCENE CLASS/ICATION PROPER PLACE RECOGNITION "(hereafter "Patient Applications").  WHEREAS (if the left box is checked), the Patient Application was filed with the U.S. Patient and Trademark Office on December 7, 2009, Application Number 12/532,284, and  WHEREAS (if the left box is checked), the Patient Application was filed with the U.S. Patient and Trademark Office on December 7, 2009, Application whom the 12/532,284, and  WHEREAS (for the left box is checked), the Patient Application names the following inventors: (and whereas I hamby subtorize Lamer, David, Littenberg, Krumholz & Mentilk, LLP., to heart in hare in brackets [Application No filed on filed on the application number and filing date of the application when known), and  WHEREAS, Goodle Ing., incorporated or otherwise formed in <u>Delawate</u> and having a place of business at 1800 Anothheatra Parkway Mentilan View, California, 24653 (hereafter, the "seeggree") is destrous of acquiring on has social and is destrous of acquiring and and is destrous of acquiring the application in the United States of America and all other countries, where "Assigned Applications in the United States of America and all other countries, where "Assigned Application in the United States of America and all other countries, where "Assigned Applications in the United States of America and all other countries, where "Assigned Applications in the United States of America and all other countries, where "Assigned Applications in the United States of America and all other countries, where "Assigned Applications in the Patient Application pursuant to a subcovers and other subject and thereafted therein, any divisional, confirmation, confirmation, confirmation, conduction pursuant to any law of the subcovers and the application of the pur		Docket Number (Optional)		
discovered inventions or discoveries, the subject matter or which is described in the plant application? "SCENE CLASSIFICATION FOR PLACE RECOGNITION" (herasifier "Patent Application").  WHEREAS (If the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on December 7, 2006, Application Number 12/632,284, and  WHEREAS (if the left box is checked), the Patent Application names the following inventors: (and whereas I hareby suthorize Lerner, David, Littenberg, Krumhotz & Mentilk, LLP, to insert in hare in brackets (Application No	ASSIGNMENT OF PATENT APPLICATION	GOOGLE 3.0-133		
Trademark Office on December 7, 2009, Application Number 12/632,284, and  WHEREAS (if the left box is checked), the Patent Application names the following inventors:  (and whereas I hareby authorize Lerner, David, Littenberg, Krumholz & Mentilik, LLP, to insert in here in breckets (Application No	the fill and the control of the fill of the control			
(and whereas I hereby authorize Lerner, David, Littenberg, Krumhotz & Mentilit, LLP, to insert in here in decides (Application No	WHEREAS (If the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on December 7, 2009, Application Number 12/632,284, and			
1800 Amohitheatre Parkway: Moudain View. California 94043 (hereater, the settine right, title and interest in 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 receipt of which is hereby acknowledged, I agree as follows. I agree to assign, and hereby do setign, 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 in the United States of America and all other countries, where "Assigned Application means the Platent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation-in-part, substitute, relissue, re-examination or other application claiming priority or benefit. I 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 exhip provide the previously conveyed, nor am it 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 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 easign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the assignee may ensign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the assignee may ensign or transfer all or part of its rights as forth herein in its sole discretion. I agree that the assignee may ensign or transfer all or part of its part of the part of the part of the	WHEREAS (if the left box is checked), the Patent Application names the following inventors:  (and whereas I hereby suthorize Lerner, David, Littenberg, Krumholz & Mentilk, LLP, to insert in here in breckets  [Application No			
agree as follows. I agree to assign, and hereby do assign, to the assigneed my entire right, to are the Assigned Application in the United States of America and all other countries, where "Assigned Application 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 easign, and hereby do assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor em 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 goovernmental 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 Applicatione. 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 algrature to this document as well as any other indical 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 end the offending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision.	1600 Amphitheatre Parkway: Mountain View. California 94043 (nereates, the seeigned ) is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, the entire right, illustration in same;			
(Signature)  Signature of Witness	agree as follows. I agree to assign, and hereby do assign, to the assignee my entire right, the 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 claiming priority or benefit. I have not previously conveyed, nor am I sware of an obligation to convey, my rights in the Assigned Applications to a third perty. 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 Applicatione. 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 provision hereof. If any provision herein is unenforceable, that requirements of the provision shall remain to the full extent permission most closely reflecting the purpose of the			
(Signature)  Signature of Witness	12/12/09	14-14 12		

**PATENT** 

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