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Form PTO-1595 (Rev 03-09)
OMB No. 0651-0027 (exp. 03/31/2009)

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02/03/2011



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

103616900				
To the Director of the U.S. Patent and	se record the attached documents or the new address(es) below.			
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)			
Tushar UDESHI	Name: Google Inc.			
Emil PRAUN	Internal Address:			
Additional name(s) of conveying party(les) attached? Yes X No				
3. Nature of conveyance/Execution Date(s):	Street Address: 1600 Amphitheatre Parkway			
Execution Date(s) 1/29/2011 and 1/31/2011				
X Assignment Merger	Ohun Ada at a Nati			
Security Agreement Change of Name	City: Mountain View			
Joint Research Agreement	State: California			
Government Interest Assignment	2			
Executive Order 9424, Confirmatory License	Country: USA Zip: 94043			
Other	Additional name(s) & address(es) attached? Yes X No			
4. Application or patent number(s):	document is being filed together with a new application.			
A. Patent Application No.(s)	B. Patent No.(s)			
13/018,333				
	tached? Yes XNo			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1			
Name: Sterne, Kessler, Goldstein & Fox P.I.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00			
Internal Address: <u>c/o Ioseph E. Mutschelknaus</u>	7. Total 150 (67 5) N. 1.21(11) & 0.41)			
	Authorized to be charged to deposit account			
Street Address: 1100 North Address:	X Enclosed			
Street Address: 1100 New York Avenue, N.W.	None required (government interest not affecting title)			
City: Washington	8. Payment Information 1005			
State: <u>D.C.</u> Zip: <u>20005-3934</u>				
Phone Number: 202 371-2600	08/2013			
Fax Number: 202 371-2540	Deposit Account Number 19-0036			
Email Address: jmutsche@skgf.com	Authorized User Name 92/83/2011 HRULLINS 88888829 13818333			
9. Signature: ////////////////////////////////////	81 FC:8821 [-31-264 48.88			
Signature	Date			
Joseph E. Mutschelknaus	Total number of pages including cover			
Name of Person Signing	sheet, attachments, and documents: 5			

recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Sox 1450, Alexandria, V.A. 22313-1460

1315449.1

Jan. 24. 2011 10:02AM Google

No. 0898 P. 11/16

Atty. Docket No. 2525.4680000

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: Tushar UDESHI and Emil PRAUN, hereby seil and assign to Google Inc., a corporation formed under the laws of Dolaware, whose mailing address is 1600 Amphitheatre Parkway, Mountain View, California 94043 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

- (a) in the invention(s) known as Methods for Efficiently Querying Multiple Points in a Indexed Quadtree for which application(s) for patent in the United States of America has a filing date or a 371(c) date of ______ (also known as United States Application No. To Be Assigned), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignce, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

PAGE 11/16 * RCVD AT 1/24/2011 12:06:54 PM [Eastern Standard Time] * SVR:NT-RIGHTFAX1/0 * DNIS:2 * CSID: * DURATION (mm-ss):03-22

PATENT

REEL: 025749 FRAME: 0212

Jan. 24. 2011 10:02AM

Google

SKGF

No. 0898 P. 12/16

P.005

Appl. No. To Be Assigned Atty. Docket No. 2525.4680000

The undersigned inventors agree to execute all papers accessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant the patent practitioners associated with CUSTOMER NUMBER 66777 the power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

The undersigned inventors hereby represent that he/she understands that the patent practitioners associated with CUSTOMER NUMBER 66777 are the legal representatives of, and attorneys for, the assignee, and are <u>NOT</u> the legal representatives of, and attorneys for, the inventors.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: 1/25/2011	Signature of Inventor;	Techar UDESHI
Date:	Signature of Inventor:	
•		Emil PRAUN
1310512_I.DOC		

Page 2 of 2

REEL: 025749 FRAME: 0213

Jan. 31. 2011 4:07PM GOOGLE

No. 0168 P. 7

Atty. Docket No. 2525.4680000

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: Tushar UDESHI and Emil PRAUN, hereby sell and assign to Google Inc., a corporation formed under the laws of Delaware, whose mailing address is 1600 Amphitheatre Parkway, Mountain View, California 94043 (hereafter referred to as the Assignes), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

- (a) in the invention(s) known as Methods for Efficiently Querying Multiple Points in a Indexed Quadtree for which application(s) for patent in the United States of America has a filing date or a 371(c) date of ______ (also known as United States Application No. To Be Assigned), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

PAGE 7/11 * RCVD AT 1/31/2011 4:05:06 PM [Eastern Standard Time] * SVR:NT-RIGHTFAX1/0 * DMS:2 * CSID: * DURATION (mm-ss):02-16

REEL: 025749 FRAME: 0214

1310512 1.DOC

Jan. 31. 2011 4:07PM GOOGLE

No. 0168 P. 8

Appl. No. To Be Assigned Atty. Docket No. 2525.4680000

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

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IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date:		Signature of Inventor:	•	
Date:	1/31/2011	Signature of Inventor:	Tushar UDESH	11 Praun
			Emil PRAUN	

Page 2 of 2

Joseph E. Mutschelknaus ATTORNEY (202) 772-8874 JMUTSCHE@SKGF.COM



Urgent

Return reply requested

Original will be sent as confirmation

To: USPTO

Date: January 31, 2011

Attention: Assignment Branch

Re: Appl. No. 13/018,333; Filed: January 31, 2011

For: Methods for Efficiently Querying Multiple

Points in an Indexed Quadtree

Inventors: UDESHI et al.

Pages (including cover sheet): 7

From: Joseph E. Mutschelknaus

Fax No: 703 756-1648

Our Reference: 2525,4680000

Message

1. Credit Card Payment Form (PTO-2038) in the amount of \$40.00 to cover the recordation fee;

2. Recordation cover sheet (PTO-1595); and

3. Executed Assignment to Google Inc.

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I hereby certify that the above documents are being facsimile transmitted to the Patent/and Trademark Office on the date shown below.

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