m PTO-1595 (Rev. 09/ 04) B No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FOR	
PATENTS	
- the Director of the LLS. Patent and Trademark Office: Please	e record the attached documents or the new address(es) below.
Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
PETER HANSON (06/19/2009) AND GLEN	
ANDERSON (06/19/2009)	
AIDERSON (OC. 15/2005)	Name: GOOGLE INC.
	TVAITIC:
	Internal Address:
Execution Date(s): in parentheses after Inventor name	- Street Address:
Additional name(s) of conveying party(les) attached? Yes X No	
3. Nature of Conveyance:	1600 AMPHITHEATRE PARKWAY
x Assignment Merger	
Name of the second seco	City:MOUNTAIN VIEW
	State: CALIFORNIA
Government Interest Assignment	State: 94043
Executive Order 9424, Confirmatory License	Country: Officed States of Hindras 2.57
Other	Additional name(s) & address(es) Yes X No attached:
	This document is being filed together with a new application.
4. Application or patent number(s):	_
A. Patent Application No.(\$)	B. Patent No.(s)
12/487,383	
	\ <u>_</u>
Additional numbers attache	ed? Yes x No
5. Name and address to whom correspondence	6. Yotal number of applications and
concerning document should be mailed:	patents involved:
Name: Jeffrey S. Dickey	
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00
KROMHOLZ & MENTER, CEI	
	Authorized to be charged by credit card
Internal Address: Alty. Dkt.: Google 3.0-061	
and D. H. Surrun Wort	Authorized to be charged to deposit account
Street Address: 600 South Avenue West	Authorized to be charged to deposit account
	Enclosed
	None required (government interest not affecting t
City: Westfield	8. Payment Information
State: NJ Zip: 07090	a. Credit Card Last 4 Numbers
Phone Number: (908) 518-6399	b, Deposit Account Number 12-1095
Fax Number: (908) 654-0415	Authorized User Name Jeffrey S. Dickey
Email Address: jdickey@ldlkm.com	
9. Signature:	
//// ////	
Signature	
Jeffrey S. Dickey - 35,858	Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing	

PATENT REEL: 023081 FRAME: 0539

Docket Number (Optional)

WHEREAS, I. Pater Harsson of 47888 Wabans Cmp. Fremont. California 2458 have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled METHOD. APPARATUS AND NETWORKING EQUIPMENT FOR PERFORMING FLOW HASHING SUNG QUAST CRYPTOGRAPHIC HASH PUNCTIONS (hereafter, the "Patent Application"). WHEREAS, Goode Inc., incorporated or otherwise formed in Dejawers, and having a place of business at a 800 Amonthlester Parkway; Mountain View, California 94043 (hereafter, the assigned is desirous of acquiring or has acquired end is desirous of memorializing its acquisition further herein. the entire right, title and interest in the Patent Application; and herein, the entire right, title and interest in the Patent Application was filled with the U.S. Patent and Trademark Office on June 18, 2009. Application Number 12447,389 and WHEREAS (if the left box is chocked), the Patent Application norms like lollowing inventors. WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (and WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (and WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (And WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (And WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (And WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (And WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (And WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (And WHEREAS (if the left box is checked), the Patent Application norms like lollowing inventors. (And WHEREAS (if the left box is checked), the Patent Application inventors in the Patent Application inventors and valuable consideration inventors and valuable consideration i	ASSIGNMENT OF UTILITY APPLICATION	GOOGLE 3.0-061
WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on June 18, 2009. Application Number 12/487.3882 and: WHEREAS (if the left box is checked), the Patent Application names the following inventors whereas I hereby authorize Lemer, David, Litenberg, Krumholz & Mentilin, LLP, to insert in here in brackets (Application No., filed on the application number and filing date of the application when known), and 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. Glacoveries and other subject other countries, where "Assigned Applications" means the Patent Application, including any and all inventions, discoveries and other subject other countries, where "Assigned Applications or the Patent Application including any and all inventions, discoveries and other subject other countries, where "Assigned Applications pursuant to any law or treaty, and any patent issuling throm the foregoing. I agree to assign, and hereby do to or benefit of the Patent Application pursuant to any law or treaty, and any patent problem to require to assign and hereby do to or benefit of the Patent Applications or stimp and hereby do to or benefit of the Patent Applications or stimp and hereby do to or benefit of the Patent Application to a line party. I hereby author or treaty and any patent processing agency in the line the Assigned Applications to a third party. I hereby authorize the LUS. Patent and Trademark Office ownership there to assignee all patents resulting from the Assigned Applications and to record assignees ownership thereof. At assignee reasonable request I agree, without further remuneration, to execute and deliver documents prepared at assignees expense and to prevent the patent and deliver documents prepared at assignees register to the Assigned Applications. Assigned to make	subject matter of which is described in the parent open CRYPTOGRAPHIC HASH FL PERFORMING FLOW HASHING USING QUASI CRYPTOGRAPHIC HASH FL WHEREAS, <u>Geogle Inc.</u> , Incorporated or otherwise formed in <u>Delaware</u> , and his	JNCTIONS (hereafter, the "Palant Application").
WHEREAS (if the loft box is checked), the Patent Application nomes the following inventors whereas I hereby authorize Lemer, David, Littenberg, Krumholz & Mentilis, LLP, to insert in here in brackets [Application No., filed on the application number and filing date of the application when known), and NOW, THEREFORE, for good and valuable consideration the receipt of which is hareby acknowledged, I agree as follows. I agree to assign, and hereby do assign, to the assigneer my entire right, title and interest in and to the Assigned Applications in the United States of America and all hereby do assign, to the assigneer my entire right, title and interest in and to the Assigned Applications, discoveries and other subject other countries, where "Assigned Application mans the Patent Application, including any and all inventions, discoveries and other subject other countries, where "Assigned Application and provide in the Patent Application pursuant to any law or treatly, and any patent issuint in the toregoing. I agree to assign, and hereby do to or benefit of the Patent Application pursuant to any law or treatly, and any patent issuint in the foregoing. I agree to assign, and hereby do to or benefit of the Patent Application pursuant to any law or treatly, and any patent issuint in the foregoing. I agree to assign, and hereby do to or benefit of the Patent Application pursuant to any law or treatly, and any patent issuint my the foregoing. I agree to assign, and hereby do to or benefit of the Patent Application pursuant to any law or treatly, and any patent issuint provided to the patent and trademark. Office, and any or obligation to designed applications and to reach assigned applications to a third party. I nereby authorize the U.S. Patent and Trademark. Office, and any or obligations or the Assigned Applications to a third party. Interest party is applicated to evidence or protocial sadgness repeated assigness and to provide other sadgness and the Assigned Applications and to receive a support of the provision	wHEREAS (if the left box is checked), the Patent Application was Application Number <u>12/487,389</u>	
NOW. THEREPORE for good and valuable consideration the receipt of which is hereby acknowledged, I agree as follows. I agree to assign, all 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 the countries, where "Assigned Applications in easing the Patent Application, including any and all inventions, discoveries and other subject other countries, where "Assigned Application, continuation-in-part, substitute, reissue, re-examination or other application chairing priority matter described therein, any divisional, confirmation, continuation-in-part, substitute, reissue, re-examination or other application and the responsibility of the party. I have not previously conveyed, nor am I sware of an obligation to convey, my rights assign, to assignee the 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 party. I hereby authorize the U.S. Patent and Trademark Office, and any other governmental agency in the 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 In the Assigned Applications to assignee all patents resulting from the Assigned Applications and to record assignee's ownership thereof. At assignee's reasonable request I eared, without further remuneration, to execute and deliver documents prepared at assignee may affer its signature to expension to request the record assignee's rights in the Assigned Applications, Assignee cooperation, such as testimory, as may be reasonably required to evidence or protect assignee's rights in the Assignee may affer its signature to may assign or transfer all or part of its rights or obligations sot forth herein in its sole discretion. I agree that assignee may affer its signature of the provision shall remain to the full extent permit of the provision shall remain to the full extent permit of the pro	WHEREAS (if the left box is checked), the Patent Application norm whereas I hereby authorize Lemer, David, Littenberg, Krumholz & March 1997 (if the application when known).	es the following inventors
State of California County of	hereby do assign, to the assignee my entire fight, other countries, where "Assigned Applications" means the Patent Application other countries, where "Assigned Applications" means the Patent Application pursuant to any law or treaty, and any to or benefit of the Patent Application pursuant to any law or treaty, and any assign, to assignee the right to claim such priority or benefit. I have not previously in the Assigned Applications to a third party. I hereby authorize the U.S. Pate world, to issue to assignee all patents resulting from the Assigned Application, to issue to assignee all patents resulting from the Assigned Application, as the countries of the patents of the	on, including any and all inventions, discoveres and other society of the policy of th
On 6 19 2009 before me, Danilo Wood 57 personally appeared Peter Hanson, who proved to me of the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to the that he executed the basis of satisfactory evidence to the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to the that he executed the basis of satisfactory evidence to be the person within the person, or the entity upon behalf of which the person actually acknowledged to the basis of satisfactory evidence to the basis of satisfactory evidence to the basis of satisfactory evidence to the basis of the	(Signature of Peter Hanson)	<u>L/19/2009</u>
WITNESS my hand and official seal (NOTABY SEAL) DANIED MAYORGA JR.	On (a) 19 2009 before me, Danie Mocord Spasis of satisfactory evidence to be the person whose name is divisoribed to same in his authorized capacity, and that by his signature on the instrument executed the instrument.	the person, or the entity upon behalf of which the person acted,
Notary Public - California Contra Costa County My Comm. Expires May 24, 2013	WITNESS my hand and official soul	DANILO MAYORGA #R. Commission # 1850720 Notary Public - California Contra Costa County

1032363 1

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

GOOGLE 3.0-061

WHEREAS, I, Gien Anderson of 1667 Plymouth Ave.: Mountain View, California 94043 have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled METHOD, APPARATUS AND NETWORKING EQUIPMENT FOR PERFORMING FLOW HASHING USING QUASI CRYPTOGRAPHIC HASHI FUNCTIONS (hereafter, the "Patent Application"),

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 the Patent Application; and

×	WHEREAS (if the left box is checked). The Patent Application was filed with the U.S. Patent and Trademark Office on June 18, 2009. Application Number 12/487.383 and:
	WHEREAS (if the left box is checked), the Patent Application names the following inventors

NOW. THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged. Lagree as follows. Lagree 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 to or benefit of the Patent Application pursuant to any law or treaty, and any patent issuing from the foregoing. Lagree to assign, and hereby do assigne the right to claim such priority or benefit. Thave not previously conveyed nor am Laware of an obligation to convey, my rights in the Assigned Applications to a third party. Thereby 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 reasonable request Lagree, 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 or obligations set forth herein in its sole discretion. Lagree that assignee may affix its signature to this document as well as any other indicing of its acceptance of the provisions hereof. If any provision hereunder is unenforceable, the extent possible, with a provision most closely reflecting the purpose of the offending provisions.

(Signature of Glen Anderson)

6/19/09
(Dale)

State of California (Charce)

On 6 19 2009. before me. Danie Mayorg T., personally appeared Glen Anderson, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Signature

(NOTARY SEAL)

DANILO MAYORGA JR.
Commission # 1850720
Notary Public - California
Contra Costa County
My Comm. Expires May 24, 2013

1032363 1



600 South Avenue West . Westfield, New Jersey 07090 908.654.5000 · FAX 908.654.7866 · WWW.LDLKM.COM

PALENTS, TRADEMARKS, COPYRIGHTS & UNITAL COMPETITION

Facsimile Transmittal

Fax Number From To: Phyllis Kelly 571-273-0140 USPTO Assignment Division 908-518-6456

Date: August 11, 2009

No. Pages: 4

File Name.: Google 3.0-061 Client/Matter No: GOOGLE/74 Attorney/Secretary: JSD/las

MESSAGE:

Please record the attached assignment and fax the Notice of Recordation to Phyllis Kelly at 908-654-7866.

NOTICE: The information contained herein is intended only for the addressee identified above. It may be or may include material that is confidential, attorney-client privileged, attorney work product, copyrighted, and/or inside information. If you are not the intended recipient, or a person responsible for delivering this message to the intended recipient, you are hereby notified that the unauthorized use, disclosure, distribution or copying is strictly prohibited and may be in violation of court order or otherwise unlawful. If you have received this transmission in error, please immediately notify us at 908 654 5000 (collect, if necessary) and return this document to us by mail.

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PATENT REEL: 023081 FRAME: 0542

RECORDED: 08/11/2009