2002

Form PTO-1595 (Rev. 09/ 04) OMB No. 0651-0027 (exp. 6/30/2005)	U,S, DEPARTMENT OF COMMERCE United States Patent and Trademark Office				
RECORDATION FOR					
PATENTS ONLY					
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.				
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)				
BOB FELDERMAN (04/28/2009), ROY M. BANNON (04/28/2009), PETER HOCHSCHILD (04/27/2009), GUENTER ROECK (04/27/2009), AND	Name: GOOGLE INC.				
Execution Date(s): in parentheses after inventor name	Street Address:				
Additional name(s) of conveying party(les) attached? X Yes No					
3. Nature of Conveyance: X Assignment Merger	1600 AMPHITHEATRE PARKWAY				
Security Agreement Change of Name	City: MOUNTAIN VIEW				
Government Interest Assignment	State: CALIFORNIA				
Executive Order 9424, Confirmatory License	Country. United States of America Zip: 94043				
Other	Additional name(s) & address(es) Yes X No attached:				
12/387,196 Additional numbers attached?	Yes X No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:				
Name: Raymond B. Churchill, Jr. LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00				
Internal Address: Atty. Dkt.:	Authorized to be charged by credit card				
Street Address: 600 South Avenue West	Authorized to be charged to deposit account Enclosed None required (government interest not affecting IIIIe)				
City: Westfield	8. Payment Information				
State: NJ Zip: 07090	a. Credit Card Last 4 Numbers				
Phone Number: (908) 518-6398	Expiration Date				
Fax Number: (908) 654-0415 Email Address: rchurchill@ldlkm.com	b. Deposit Account Number 12-1095 Authorized User Name Raymond B. Churchill,				
9. Signature:	May 21, 2009				
Signature 14.047	Date Total number of pages including cover 7				
Raymond B. Churchill, Jr 44,617	Total number of pages including cover 7				

PATENT REEL: 022726 FRAME: 0917

Form PTO-1595	RECOR	DATION FORM COVER SHEET (CONTINUED)	
Additional Convey	ing Party(ies)/Exec	ution Date(s) (1. Continued):	
Hain- Ching Humphr	ey Liu (04/27/2009)		
Additional Assigne	ees (2. Continued):		-
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Assignee Name: Internal Address:		·	
Street Address:			
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City.	State.	Codiny.	
Assignee Name:		·	
Internal Address:			
Street Address:			
City:	State:	Country:	Zip:
Assignee Name:			
Internal Address:			
Street Address:			
City:	State:	Country:	Zip:
Additional Applica	tions and/or Patents	s (4. Continued):	
Additional Patent Application		Additional Patent Numbers 4B. Continued:	
Į			
	Additional numbers	attached? Yes No	o

1019515_1.DOC

Docket No.:

Docket Number (Optional)

-GOOGLE 3.0-027

WHEREAS, I, <u>Bob Felderman</u> of <u>310 la Mesa Drive</u>; <u>Portola Valley</u>, <u>California 94028</u> have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled <u>METHOD AND APPARATUS FOR A NETWORK QUEUING ENGINE AND CONGESTION MANAGEMENTGATEWAY</u> (hereafter "Patent Application").

WHEREAS. <u>Google Inc.</u>, 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 Concurrently Herewith, Application Number and;

X. WHEREAS (If the left box is checked), the Patent Application names the following inventors Bob Felderman; Roy M. Bannon; Peter Hochschild; Guenter Roeck; and Hain- Ching Humphrey Liu, (and whereas I hereby authorize Lemor, David, Littenberg, Krumholz & Mentilik, LLP, to insert in here in brackets Japplication No. 12/387_196_, filed on 04/28/09_____1 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 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. 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 assignee may affix hereto or hereon an indication, with its signature of its acceptance of the assignment and other provisions hereof. If any provision thereunder is unenforceable, the requirements of the provision shall remain to the full exent 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

I further agree to assign, and hereby do assign, to assignee my entire right, title and interest in and to Provisional Application No. 61/048,913, filed <u>April 29, 2008</u>, including the right to claim priority to or benefit of the filing date thereof, such provisional application being considered an Assigned Application for all purpose hereunder.

(Signature of Bob Felderman)

(Date)

State of California)
County of Santa Clara)

on 4/28/04, before me, Muviet Single. personally appeared Bob Felderman, 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.

WITNESS my hand end official seal.

Sionature

(NOTARY SEAL)

MUVJOT SINGH
COMM. # 1741396
MOTRRY PUBLIC-CALIFORNIA
CONTRA COSTA COUNTY
MY COMM. EXP. APR. 24, 2011

REEL: 022726 FRAME: 0919

and filing date of the application when known), and

Docket Number (Optional)

GOOGLE 3.0-027

WHEREAS, I, Roy M. Bannon of 256 Fullon Street; Palo Alto, California 84301 have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled. METHOD AND APPARATUS FOR A NETWORK QUEUING ENGINE AND CONGESTION MANAGEMENTGATEWAY (hereafter "Patent Application"),

WHEREAS, <u>Goode Inc.</u>, 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

	Herewar, Application Number and,	
ш	WHEREAS (if the left box is checked), the Patent Application names the following inventors Bob Felderman; Roy M. Bannor Hochschild; Guenter Roeck; and Hain- Ching Humphrey Liu. (and whereas I bereby authorize Lerner, David, Littenberg, Krun Mentlik, LLP, to insert in here in brackets [Application No. 12/387 196 n 04/28/09 The application	nholz &

WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on Concurrently

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 to or benefit of the Patent Application pursuant to any law or treaty, and any patent Issuing from the foregoing. I agree to assign, and hereby do 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 expanse 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 assignee may affix hereto or hereon an indication, with its signature of its acceptance of the assignment and other provisions hereof. If any provision hereunder 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

I further agree to assign, and hereby do assign, to assignee my entire right, title and interest in and to Provisional Application No. <u>61/048.913</u> filed <u>April 29, 2008</u>, including the right to claim priority to or benefit of the filing date thereof, such provisional application being considered an Assigned Application for all purposes hereunder.

possible, with a provision most closely reflecting the purpose of the offending provision

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State of California County of <u>Soute</u> Class)

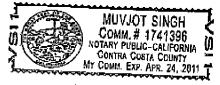
On 4 28 6 4 before me, Yuvet Single personally appeared Roy M. Bannon, who proved to me on the basis of setisfactory evidence to be the person whose-same is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the 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.

WITNESS my hand and official seal.

Signature _

(NOTARY SEAL)



REEL: 022726 FRAME: 0920

04/27/2009 MON 17:38 [TX/RX NO 7342] \$6:07

ASSIGNMENT OF UTILITY APPLICATION	
ASSIGNMENT OF OTILITY AFFEIGATION	GOOGLE 3.0-027
HEREAS. I. <u>Peter Hochschild</u> of <u>253 East Houston Street</u> , <u>Apt. 2: New York</u> , solveries, the subject matter of which is described in the patent application of JEUING ENGINE AND CONGESTION MANAGEMENTGATEWAY (hereafted the subject of the subject	er "Patent Application").
ew, California 34043 (Iteration) in the Patent Application; and irrein, the entire right, title and Interest in the Patent Application; and WHEREAS (If the left box is checked), the Patent Application was Herewith, Application Number and;	
and filing date of the application when known), and	187, 196 , filed on $04/28/09$. The application number
iOW, THEREFORE, for good and valuable consideration the receipt of which earthy to assign, to the assignee my entire right, title and interest in and to their countries, where "Assigned Applications" means the Patent Applicational matter described therein, any divisional, continuation, continuation-in-part, support of the Patent Application pursuant to any law or treaty, and any essign, to assignee the right to daim such priority or benefit. I have not previoud, to issue to assignee all patents resulting from the Assigned Applications to a third party. Thereby authorize the U.S. Patendd, to issue to assignee all patents resulting from the Assigned Applications to assignee, without further remaneration, to execute and discreptable frequest I agree, without further remaneration, to execute and discreptable, such as testimony, as may be reasonably required to evidence with its rights set forth herein in its sole discreptable in the provision of the assignment and other provisions had the provision shall remain to the full extent permissible by law and the possible, with a provision most closely reflecting the purpose of the offending further agree to assign, and hereby do assign, to assignee my entire right, its filed April 29, 2008, including the right to clerin priority to or benefit of the filing	on, Including any and all inventions, discoveries and other subject bistitute, reliseus, re-examination or other application claiming priority patent lissuing from the foregoing. I agree to assign, and hereby do custy conveyed, nor am I aware of an obligation to convey, my rights and Tradamark Office, and any other governmental agency in the ations and to record assignee's connership thereof. At assignee's inver documents prepared at assignee's expense and to provide other or protect assignee's rights in the Assigned Applications. Assignee ation, I agree that assignee may affix hereto or hereon an indication, steel. If any provision hereunder is unenforceable, the requirements offending portions thereof shall be deemed replaced. To the extent provision
essigned Application for all purposes hereunder.	April 27, 2009
PAT OPENS	
(a)	(Date)
(Signature of Peter Hochschild)	April 27, 2009
(Signature of Peter Hochschild) State of New York) State of New York) Sections of New York)	
(Signature of Peter Hochschild) State of New York County of On theday ofin the year , before me personally a contine basis of satisfactory evidence to the individual whose name is subscribed in the same in his capacity, and that by his signature on the instrume	appeared Peter Hochschild, personally known to me or proved to me
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04/27/2009 MON 17:39 FAX

Docket Number (Optional)

GOOGLE 3.0-027

WHEREAS, I, Guenter Rocck of 4108 Arros Way. San Jose, California 95135 have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled METHOD AND APPARATUS FOR A NETWORK QUEUING ENGINE AND CONGESTION MANAGEMENTGATEWAY (hereafter "Patent Application"),

WHEREAS, Google Inc., incorporated, or otherwise formed in <u>Delaware</u> and having a place of business at 1600 Amphitheatre Parkway; Mountain venences, <u>google me</u>, incorporated, or otherwise runned in <u>peraware</u> and naving a prace or occurred and is desirous of memorializing its acquisition further 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 filled with the U.S. Patent and Trademark Office on Concurrently Herewith, Application Number and;

WHEREAS (if the left box is checked), the Patent Application names the following inventors Bob Falderman; Roy M. Bannon; Peter Hochschild; Guenter Rosek; and Hain- Ching Humphrey Liu, (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. 12/387,196], filed on 04/28/09. 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 assigned 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 end 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. I agree to assign, and hereby do easign, to essigned 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 in the Assigned Applications to a unit party. Thereby adminize the 0.3, Fatentiated trademark office, and any other governmental egistry in the world, to issue to assignee all patents resulting from the Assigned Applications and to record assignee's ownership thereof. At assignee's world, to issue to assignee all patents resulting from the Assigned Applications and to record assignee's expense and to provide other 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 assignee may affix hereto or hereon an indication. with its signature of its acceptance of the assignment and other provisions hereof. If any provision hereunder 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

I further agree to assign, and hereby do assign, to assignee my entire right, title and interest in and to Provisional Application No. 61/046,913, filed April 29, 2008, including the right to claim priority to or benefit of the filing date thereof, such provisional application being considered an Assigned Application for all purposes hereunder. 4-27-2006 (Date)

WITNESSED BY:

._____

04/27/2009 MON 20:54 [TX/RX NO 7345] 2004

Docket Number (Optional)

GOOGLE 3.0-027

WHEREAS, I. <u>Hain- Ching Humphrey Liu</u> of <u>42600 Palm Avenue; Fremont, California 94539</u> have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled. METHOD AND APPARATUS FOR A NETWORK QUEUING ENGINE AND CONGESTION MANAGEMENTGATEWAY (hereafter "Patent Application").

WHEREAS, <u>Google Inc.</u> , 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 destrous of acquiring, or has acquired and is destrous 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 fitted with the U.S. Patent and Trademark-Office on Concurrently

-	Herewith, Application Number and;	
	WHEREAS (if the left box is checked), the Patent Application names the following inventors Bob Felderman; Roy M. Bannon; Peter Hochschild; Guenter Rock; and Hain-Ching Humphrey Liu, (and whereas I hereby authorize Lemar, David, Littenberg, Krumhotz & Mentils, LLP, to Insert in here in brackets (Application No. 12/387, 196), filed on 04/28/09] the application numbers of the participal when known) and	

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby ecknowledged, I agree as follows. Lagree to assign, and hereby do assign, to the 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 calming priority to or benefit of 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 cleim such priority or benefit. I have not previously conveyed, nor am I sware of an obligation to convey, my rights in the Assignee 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 essignee'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 easignee may affix hereto or hereon an Indication, with its signature of its acceptance of the assignment and other provisions hereof. If any provision hereunder is unenforceable, the requirements of the provision most closely reflecting the purpose of the offending provision.

I further agree to assign, and hereby do assign, to assignee my entire right, title and interest in and to Provisional Application No. <u>51/048.913</u>, filed <u>April 29, 2008</u>, including the right to daim pointly to or benefit of the fitting date thereof, such provisional application being considered an Assigned Application (grading process hereunder).

(Signaldre of Harr- Coping Humphrey Llu)

4-27-2009 (Date)

WITNESSED BY:

3y: _____(Signature)

Name: ______(Typed or Printed Name)

1009957_1.DOC

PATENT REEL: 022726 FRAME: 0923

RECORDED: 05/22/2009