

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 FORM COVER SHEET
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):BOB FELDERMAN (04/28/2009), ROY M.
BANNON (04/28/2009), PETER HOCHSCHILD
(04/27/2009), GUENTER ROECK (04/27/2009),
AND

Execution Date(s): in parentheses after inventor name

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No**3. Nature of Conveyance:**

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)Name: GOOGLE INC.

Internal Address: _____

Street Address: _____

1600 AMPHITHEATRE PARKWAYCity: MOUNTAIN VIEWState: CALIFORNIACountry: United States of America Zip: 94043Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

12/387,196☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Raymond B. Churchill, Jr.
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK, LLP

Internal Address: Atty. Dkt.:

Street Address: 600 South Avenue WestCity: WestfieldState: NJ Zip: 07090Phone Number: (908) 518-6398Fax Number: (908) 654-0415Email Address: rchurchill@idlkm.com**6. Total number of applications and patents involved:**1**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

- a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit Account Number 12-1095
Authorized User Name Raymond B. Churchill,

9. Signature:
Signature
Raymond B. Churchill, Jr. - 44,617
Name of Person SigningMay 21, 2009

Date

Total number of pages including cover
sheet, attachments, and documents:7

CH \$40.00 121095 12387196

Form PTO-1595		RECORDATION FORM COVER SHEET (continued)	
Additional Conveying Party(ies)/Execution Date(s) (1. Continued): Hain- Ching Humphrey Liu (04/27/2009)			
Additional Assignees (2. Continued):			
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____ State: _____ Country: _____ Zip: _____			
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____ State: _____ Country: _____ Zip: _____			
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____ State: _____ Country: _____ Zip: _____			
Additional Applications and/or Patents (4. Continued):			
Additional Patent Application Numbers 4A. Continued:		Additional Patent Numbers 4B. Continued:	
Additional numbers attached?		<input type="checkbox"/> Yes <input type="checkbox"/> No	

1019515_1.DOC

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

GOOGLE 3.0-027

WHEREAS, I, Bob Felderman of 310 La Mesa Drive, Portola Valley, California 94028 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 MANAGEMENT GATEWAY (hereafter "Patent Application").

WHEREAS, Google Inc., incorporated, or otherwise formed in Delaware 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;

☒ WHEREAS (if the left box is checked), the Patent Application names the following inventors Bob Felderman; Roy M. Bannon; Peter Hochschild; Guenter Roock; 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] 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 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. 61/049,913, 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.

(Signature of Bob Felderman)

(Date)

State of California
County of Santa Clara

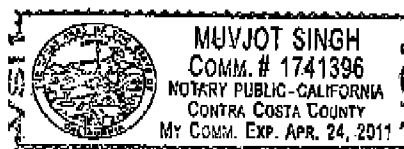
On 4/28/09, before me, Muvjot Singh, personally appeared Bob Felderman, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the 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 and official seal.

Signature

(NOTARY SEAL)



ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

GOOGLE 3.0-027

WHEREAS, I, Roy M. Bannon of 256 Fullon Street, Palo Alto, California 94301 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 MANAGEMENT GATEWAY (hereafter "Patent Application"),

WHEREAS, Google Inc., incorporated, or otherwise formed in Delaware 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;

☒ WHEREAS (if the left box is checked), the Patent Application names the following inventors Bob Felderman; Roy M. Bannon; Peter Hochschild; Guenter Roock; 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] 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 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. 61/048,913, 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.

Roy M. Bannon
(Signature of Roy M. Bannon)

28 APR 2009
(Date)

State of California
County of San Francisco

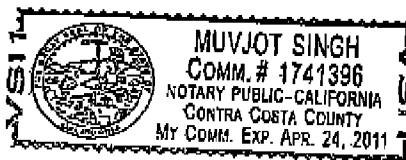
On 4/28/09, before me, Muvjot Singh, personally appeared Roy M. Bannon, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the 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 and official seal.

Signature Muvjot Singh

(NOTARY SEAL)



0007 12/27/2009 17:38 TX/RX NO 73421

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

GOOGLE 3.0-027

WHEREAS, I, Peter Hochschild of 253 East Houston Street, Apt. 2, New York, New York, 10002 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 MANAGEMENT GATEWAY (hereafter "Patent Application").

WHEREAS, Google Inc., incorporated, or otherwise formed in Delaware 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;

☒ WHEREAS (If the left box is checked), the Patent Application names the following inventors Bob Felderman; Roy M. Bannan; Peter Hochschild; Guenter Roeck; and Hsin-Ching Humphrey Liu, (and whereas I hereby authorize Lerner, David, Litzenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. 12/387,196, filed on 04/28/09] 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 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.

Peter Hochschild
(Signature of Peter Hochschild)

April 27, 2009
(Date)

State of New York)
County of New York) ss.:

On the _____ day of _____ in the year _____, before me personally appeared Peter Hochschild, personally known to me or proved to me on the basis of satisfactory evidence to the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Signature Notary Public

(SEAL)

Typed, Printed or Stamped Name of Notary Public

Office of Person Taking Acknowledgement

My commission expires: _____

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

GOOGLE 3.0-027

WHEREAS, I, Gunter Roeck of 4108 Amos 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 MANAGEMENT GATEWAY (hereafter "Patent Application"),

WHEREAS, Google Inc., incorporated, or otherwise formed in Delaware 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;

☒ WHEREAS (if the left box is checked), the Patent Application names the following inventors Bob Felderman; Roy M. Bannon; Peter Hochschild; Gunter Roeck; 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] 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 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. 61/046,813, 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.

Gunter Roeck
(Signature of Gunter Roeck)

4-27-2009
(Date)

WITNESSED BY:

By: Luise Genzinger
(Signature)

Name: Luise Genzinger
(Typed or Printed Name)

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

GOOGLE 3.0-027

WHEREAS, I, Hain- Ching Humphrey Liu of 42800 Palm Avenue, Fremont, California 94538 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 MANAGEMENT GATEWAY (hereafter "Patent Application"),

WHEREAS, Google Inc., incorporated, or otherwise formed in Delaware 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;

☒ WHEREAS (if the left box is checked), the Patent Application names the following inventors Bob Felderman; Roy M. Bannon; Peter Hochschild; Guenter Roock; and Hain- Ching Humphrey Liu, (and whereas I hereby authorize Lemar, David, Uttenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. 12/387,196, filed on 04/28/09] the application number and filing date of the continuation 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 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. 61/048,913, 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.

(Signature of Hain- Ching Humphrey Liu)

(Date)

WITNESSED BY:

By: _____
(Signature)

Name: _____
(Typed or Printed Name)

1008957_1.DOC

PATENT

RECORDED: 05/22/2009

REEL: 022726 FRAME: 0923