

Form PTO-1595 (Rev. 01-11)
OMB No. 0651-0027 (exp. 03/31/2015)

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):

Jiangbo Li (06/26/2012), Junian Zhou
(06/26/2012), and Joon Ong (06/25/2012)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

- ☒ Assignment ☐ Merger ☐ Change of Name
☐ Security Agreement ☐ Joint Research Agreement
☐ 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 Parkway

City: Mountain View

State: California

Country: United States of America Zip: 94043

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)
13/535.557

☐ 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: Niraj A. Desai
LERNER, DAVID, LITTENBERG,
KRUMHOLZ & MENTLIK, LLP

Internal Address: Atty. Dkt.: GOOGLE 3.0-500
Street Address: 600 South Avenue West

City: Westfield
State: NJ Zip: 07090
Phone Number: 908-654-5000
Fax Number: 908-654-7866
Email Address: ataylor@ldikm.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 to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 12-1095
Authorized User Name Niraj A. Desai

9. Signature:

Niraj A. Desai
Signature

July 5, 2012
Date

Niraj A. Desai - 64,934
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

ASSIGNMENT OF PATENT APPLICATION

Docket Number (Optional)

GOOGLE 3.0-500

WHEREAS, I, Jiangbo Li of 373 River Oaks Cir. #1205, San Jose, California 95134, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "INBAND MANAGEMENT IN A MULTI-STAGE CLOS NETWORK" (hereafter "Patent Application"),

☐ WHEREAS (If the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on _____, Application Number _____, and

☒ WHEREAS (If the left box is checked), the Patent Application names the following inventors: Jiangbo Li, Junlan Zhou, and Joon Ong (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. 13/535,557, filed on 6-28-12] the application number and filing date of the application when known), and

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 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 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 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 assignee 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 shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision.

06/26/2012
(Date)



(Signature)


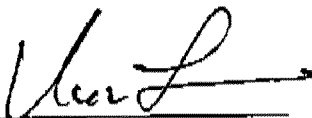

Signature of Witness

PETRI GYNTER
Printed Name of Witness

PATENT

REEL: 028553 FRAME: 0728

ASSIGNMENT OF PATENT APPLICATION	Docket Number (Optional) GOOGLE 3.0-500
<p style="text-align: right;">94057 <i>ML</i></p> <p>WHEREAS, I, <u>Junlan Zhou of 1660 Kamsack Drive, Sunnyvale, California 94086</u>, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "INBAND MANAGEMENT IN A MULTI-STAGE CLOS NETWORK" (hereafter "Patent Application"),</p>	
<p><input type="checkbox"/> WHEREAS (If the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on _____, Application Number _____, and</p>	
<p><input checked="" type="checkbox"/> WHEREAS (If the left box is checked), the Patent Application names the following inventors: <u>Jiangbo Li, Junlan Zhou, and Joon Ong</u> (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. <u>13/535,557</u>, filed on <u>6-28-12</u>] the application number and filing date of the application when known), and</p>	
<p>WHEREAS, <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 94043</u> (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;</p>	
<p>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 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 assignee 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 shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision.</p>	
<p><u>06/26/12</u> (Date)</p>	<p> (Signature)</p>
<p><u>Jingxian Lu</u> Signature of Witness</p> <p><u>JINGXIAN LU</u> Printed Name of Witness</p>	

ASSIGNMENT OF PATENT APPLICATION	Docket Number (Optional) GOOGLE 3.0-500
<p>WHEREAS, I, <u>Joon Ong of 7412 Stanford Place, Cupertino, California 95014</u>, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "INBAND MANAGEMENT IN A MULTI-STAGE CLOS NETWORK" (hereafter "Patent Application"),</p> <p><input type="checkbox"/> WHEREAS (If the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on _____, Application Number _____, and</p> <p><input checked="" type="checkbox"/> WHEREAS (If the left box is checked), the Patent Application names the following inventors: <u>Jiangbo Li, Junlan Zhou, and Joon Ong</u> (and whereas I hereby authorize Lerner, David, Litteberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No. <u>13/535,557</u>, filed on <u>6-28-12</u>] the application number and filing date of the application when known), and</p> <p>WHEREAS, <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 94043</u> (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;</p> <p>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 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 assignee 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 shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"> <u>6/25/12</u> (Date) </div> <div style="text-align: center;">  _____ (Signature) </div> </div> <div style="margin-top: 20px;"> <div style="text-align: center;">  _____ Signature of Witness </div> <div style="text-align: center; margin-top: 10px;"> <u>Victor Lin</u> _____ Printed Name of Witness </div> </div>	

PATENT

RECORDED: 07/05/2012

REEL: 028553 FRAME: 0730