

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2569679

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yuan Yuan</td> <td>02/14/2011</td> </tr> <tr> <td>Shuyi Chen</td> <td>02/28/2011</td> </tr> <tr> <td>C. Philip Gossett</td> <td>02/14/2011</td> </tr> <tr> <td>Jeremy Thorpe</td> <td>02/14/2011</td> </tr> </tbody> </table>		Name	Execution Date	Yuan Yuan	02/14/2011	Shuyi Chen	02/28/2011	C. Philip Gossett	02/14/2011	Jeremy Thorpe	02/14/2011
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Google Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1600 Amphitheatre Parkway</td> </tr> <tr> <td>City:</td> <td>Mountain View</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94043</td> </tr> </table>		Name:	Google Inc.	Street Address:	1600 Amphitheatre Parkway	City:	Mountain View	State/Country:	CALIFORNIA	Postal Code:	94043
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14048242</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14048242						
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CORRESPONDENCE DATA											
Fax Number:	(877)769-7945										
Phone:	(612) 335-5070										
Email:	jhr@fr.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	ANDREW DOMMER										
Address Line 1:	FISH & RICHARDSON P.C.										
Address Line 2:	P.O.BOX 1022										
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022										
ATTORNEY DOCKET NUMBER:	16113-2666003										
NAME OF SUBMITTER:	ANDREW DOMMER										

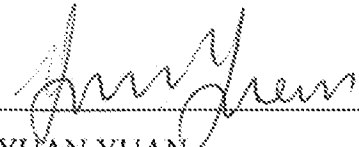
Signature:	/Andrew Dommer/
Date:	10/08/2013
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ASSIGNMENT

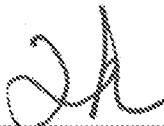
For valuable consideration, we, YUAN YUAN of 1035 Aster Avenue #2174 Sunnyvale, CA, 94086, SHUYI CHEN of 1009 W. Main Sreet. #31 Urbana, IL, 61801, C. PHILIP GOSSETT of 1169 Burgoyne Street Mountain View, CA 94043, JEREMY THORPE of 356 Fernando Avenue Palo Alto, CA 94306, hereby assign to: Google Inc., a corporation of Delaware having a place of business at:

1600 Amphitheatre Parkway  
Mountain View, California 94043; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled RATE ADAPTATION IN A COMMUNICATION SYSTEM, filed February 23, 2011, and assigned U.S. Serial Number 13/033,356, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

  
YUAN YUAN

Witnessed by:

  
Signature

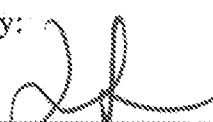
Date: Feb. 14 2011

Guangyu Zhu  
Typed or Printed Name

1035 Aster Ave, Apt 2174  
Sunnyvale, CA, 94088  
Witness Address

SHUYI CHEN

Witnessed by:

  
Signature

Date:

Guangyu Zhu  
Typed or Printed Name

1035 Aster Ave, Apt 2174  
Sunnyvale CA 94086  
Witness Address

\_\_\_\_\_  
YUAN YUAN

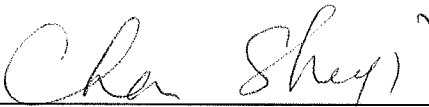
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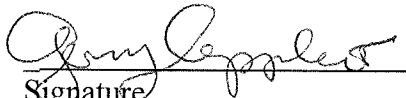
Date: \_\_\_\_\_

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Witness Address

  
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SHUYI CHEN

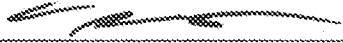
Witnessed by:

  
Signature


Date: Jan. 28, 2011

Jenny Applegquist  
Typed or Printed Name

1709 Gentry Square Lane Apt 202  
Champaign IL 61821  
Witness Address

  
C. PHILIP GOSSETT


Witnessed by:

  
Signature

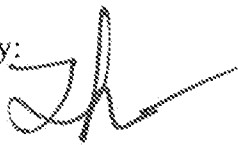
Date: 2/14/11

Mike Gunter  
Typed or Printed Name

2 Bell Waver Way  
Oakland, CA, 94619  
Witness Address

  
JEREMY THORPE

Witnessed by:

  
Signature

Date: 2/14/11

Guangyu Zhu  
Typed or Printed Name

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San Jose, CA 9408  
Witness Address