

## PATENT ASSIGNMENT

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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>Thomas J. Duerig</td> <td>02/02/2012</td> </tr> <tr> <td>Jason E. Weston</td> <td>01/31/2012</td> </tr> <tr> <td>Charles J. Rosenberg</td> <td>02/03/2012</td> </tr> <tr> <td>Kunlong Gu</td> <td>02/02/2012</td> </tr> <tr> <td>Samy Bengio</td> <td>01/31/2012</td> </tr> </tbody> </table>		Name	Execution Date	Thomas J. Duerig	02/02/2012	Jason E. Weston	01/31/2012	Charles J. Rosenberg	02/03/2012	Kunlong Gu	02/02/2012	Samy Bengio	01/31/2012
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<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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CORRESPONDENCE DATA													
<p>Fax Number: (877)769-7945          Phone: (617) 542-5070          Email: apsi@fr.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Frank L. Gerratana          Address Line 1: FISH &amp; RICHARDSON P.C.          Address Line 2: P.O.BOX 1022          Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022</p>													
ATTORNEY DOCKET NUMBER:	16113-3815001												
NAME OF SUBMITTER:	Christine M. Grace												

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**Total Attachments: 12**

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ASSIGNMENT

For valuable consideration, we, THOMAS J. DUERIG of 1355R Sage Hen Way, Sunnyvale, CA 94087, JASON E. WESTON of 280 East Second Street, Apt. 10C, New York, NY 10009, CHARLES J. ROSENBERG of 6033 Shadygrove Drive, Cupertino, CA 95014, KUNLONG GU of 192 Oxford Way, Belmont, CA 94002, and SAMY BENGIO of 1951 Sorrento Court, Mountain View, CA 94040, 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 REFINING IMAGE RELEVANCE MODELS, filed February 1, 2012, and assigned U.S. Serial Number 13/363,979, 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.

  
THOMAS J. DUERIG

Witnessed by:

  
Signature

Date: 2-Feb-2012

Sean O'Malley  
Typed or Printed Name

777 W. Middlefield Rd. Apt. 139  
Mountain View, CA 94043  
Witness Address

\_\_\_\_\_  
JASON E. WESTON

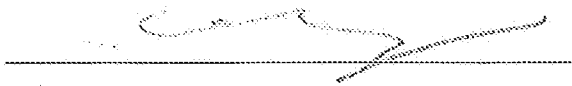
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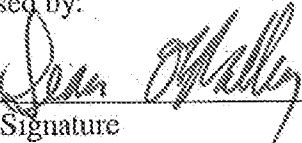
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Witness Address

  
CHARLES J. ROSENBERG

Witnessed by:

  
Signature

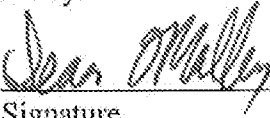
Date: 2/3/12

Sean O'Malley  
Typed or Printed Name

777 W. Middlefield Rd. #139  
Mountain View, CA 94043  
Witness Address

  
KUNLONG GU

Witnessed by:

  
Signature

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Sean O'Malley  
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Witness Address

\_\_\_\_\_  
SAMY BENGIO

Witnessed by:

\_\_\_\_\_  
Signature

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

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

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THOMAS J. DUERIG


Witnessed by:

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

\_\_\_\_\_  
Signature

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


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



JASON E. WESTON

Witnessed by:

Date: 31<sup>ST</sup> JAN 2012

  
Signature

AMEESH MAKADIA  
Typed or Printed Name

55 GREENWICH AVE, #7

NEW YORK, NY 10014  
Witness Address



\_\_\_\_\_  
CHARLES J. ROSENBERG

Witnessed by:

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

\_\_\_\_\_  
Signature

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

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

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KUNLONG GU

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KUNLONG GU

Witnessed by:

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Signature

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

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Typed or Printed Name

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Witness Address

Samy Bengio  
SAMY BENGIO

Witnessed by:

Philip M. Long  
Signature

Date: 11/31/2012

Philip M. Long  
Typed or Printed Name

2003 Edgewood Dr.  
Palo Alto, CA 94303  
Witness Address

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