

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>Qixing Huang</td> <td>03/28/2012</td> </tr> <tr> <td>Mei Han</td> <td>03/21/2012</td> </tr> <tr> <td>Bo Wu</td> <td>03/21/2012</td> </tr> <tr> <td>Sergey Ioffe</td> <td>03/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Qixing Huang	03/28/2012	Mei Han	03/21/2012	Bo Wu	03/21/2012	Sergey Ioffe	03/21/2012
Name	Execution Date										
Qixing Huang	03/28/2012										
Mei Han	03/21/2012										
Bo Wu	03/21/2012										
Sergey Ioffe	03/21/2012										
RECEIVING PARTY DATA											
Name:	Google Inc.										
Street Address:	1600 Amphitheatre Parkway										
Internal Address:	Building 41										
City:	Mountain View										
State/Country:	CALIFORNIA										
Postal Code:	94043										
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>13434515</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13434515						
Property Type	Number										
Application Number:	13434515										
CORRESPONDENCE DATA											
Fax Number:	(650)938-5200										
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Correspondent Name:	Jason E. Amsel										
Address Line 1:	801 California Street										
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ATTORNEY DOCKET NUMBER:	24207-19499										
NAME OF SUBMITTER:	Jason E. Amsel										

CH \$40.00 13434515

Total Attachments: 4

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to Google Inc., a Delaware corporation, having a place of business at 1600 Amphitheatre Parkway, Building 41, Mountain View, CA 94043 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional application filed under 35 U.S.C. § 111(b), non-provisional application filed under 35 U.S.C. § 111(a), international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

- Application No. 13/434,515, entitled "Hierarchical Conditional Random Field Model for Labeling and Segmenting Images," filed on March 29, 2012.

2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION;
(c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

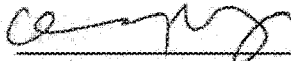
INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

Title: Hierarchical Conditional Random Field Model for Labeling and Segmenting Images
Filed: March 29, 2012
Application No.: 13/434,515

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature



Qixing Huang

Date of Signature

03/28/2012, 2012

Name and Signature

Mei Han

Date of Signature

, 2012

Name and Signature

Bo Wu

Date of Signature

, 2012

Name and Signature

Sergey Ioffe

Date of Signature

, 2012

