PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Rajat Monga	03/23/2012
Xiaoyun Wu	03/23/2012
Andrew Ng	03/23/2012

RECEIVING PARTY DATA

Name:	Google Inc.
Street Address:	1600 Amphitheatre Parkway
City:	Mountain View
State/Country:	CALIFORNIA
Postal Code:	94043

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13428985

CORRESPONDENCE DATA

Fax Number:	(650)941-4405
Phone:	6509414470
Email:	admin@jasipc.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name:	Jonathan A. Small JAS IP Consulting
Address Line 1:	309 2nd Street, Suite 8
Address Line 4:	Los Altos, CALIFORNIA 94022

ATTORNEY DOCKET NUMBER:	GGL-11-09
NAME OF SUBMITTER:	Jonathan A. Small

Total Attachments: 1
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The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled **Distribution of Parameter Calculation for Iterative Optimization Methods** (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

- ☒ is being executed concurrently herewith,
- ☐ was first executed on
- ☐ was filed on   as Application Number   .
- ☐ claims the benefit of U.S. Provisional Application(s) No(s).   filed   .

Google Inc., a Delaware Corporation, on behalf of itself, its successors and assigns, and its legal representatives ("**GOOGLE**"), is entitled to all rights in the Application and the Invention(s), and the full cooperation of the Inventor(s).

For valuable consideration, the receipt of which is hereby acknowledged, the Inventor(s) hereby sell(s), assign(s), and transfer(s) to **GOOGLE** the entire and exclusive right, title and interest in the Invention(s), in the Application(s) and any Continuations (including CIP), Divisionals or Reissues thereof, in and for the United States, its territories, and all foreign countries, and in all applications, patents, design registrations and publications obtained or derived therefrom, world wide, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed in the Application; and
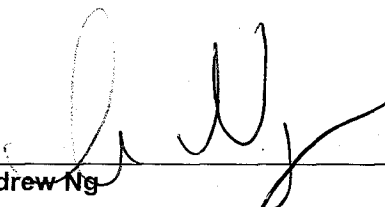
(1)   request the granting body to issue any and all letters patent granted thereon to **GOOGLE**;
(2)   agree that **GOOGLE** may apply for, prosecute, and receive all letters patent thereon;
(3)   agree that **GOOGLE** may file and prosecute any continuations, continuations-in-part, divisionals, or other related intellectual property rights, whether patent or otherwise, thereon, and receive same as may be granted;
(4)   agree to execute all papers and take all actions necessary or desirable in connection with any of the foregoing requested by **GOOGLE**; and
(5)   authorize **GOOGLE** to subsequently enter the Application Number on this Assignment, if not already entered above.

_____   03/23/12
Rajat Monga   Date

_____   03/23/2012
Xiaoyun Wu   Date

_____   03/23/2012
Andrew Ng   Date