

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Vincent Olivier Vanhoucke</td> <td>03/14/2013</td> </tr> <tr> <td>Jeffrey Adgate Dean</td> <td>03/20/2013</td> </tr> <tr> <td>Georg Heigold</td> <td>03/13/2013</td> </tr> <tr> <td>Marc'aurelio Ranzato</td> <td>03/14/2013</td> </tr> <tr> <td>Matthieu Devin</td> <td>03/15/2013</td> </tr> <tr> <td>Patrick An Phu Nguyen</td> <td>03/20/2013</td> </tr> <tr> <td>Andrew William Senior</td> <td>03/14/2013</td> </tr> </tbody> </table>		Name	Execution Date	Vincent Olivier Vanhoucke	03/14/2013	Jeffrey Adgate Dean	03/20/2013	Georg Heigold	03/13/2013	Marc'aurelio Ranzato	03/14/2013	Matthieu Devin	03/15/2013	Patrick An Phu Nguyen	03/20/2013	Andrew William Senior	03/14/2013
Name	Execution Date																
Vincent Olivier Vanhoucke	03/14/2013																
Jeffrey Adgate Dean	03/20/2013																
Georg Heigold	03/13/2013																
Marc'aurelio Ranzato	03/14/2013																
Matthieu Devin	03/15/2013																
Patrick An Phu Nguyen	03/20/2013																
Andrew William Senior	03/14/2013																
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						
Name:	Google Inc.																
Street Address:	1600 Amphitheatre Parkway																
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>13862541</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13862541												
Property Type	Number																
Application Number:	13862541																
CORRESPONDENCE DATA																	
Fax Number:	3129130002																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	312 913 0001																
Email:	huffman@mbhb.com																
Correspondent Name:	McDonnell Boehnen Hulbert & Berghoff LLP																
Address Line 1:	300 South Wacker Drive, Suite 3100																
Address Line 4:	Chicago, ILLINOIS 60606																
ATTORNEY DOCKET NUMBER:	12-1466																

CH \$40.00 13862541

NAME OF SUBMITTER:	Gregory M. Huffman
Signature:	/Gregory M. Huffman/
Date:	04/15/2013
Total Attachments: 2 source=12-1466_Assignment_20MAR2013#page1.tif source=12-1466_Assignment_20MAR2013#page2.tif	

## ASSIGNMENT

Case No.: 12-1466

Serial No.:

Inventor(s): Vincent Olivier Vanhoucke, Jeffrey Adgate Dean,  
Georg Heigold, Marc'aurelio Ranzato, Matthieu Devin,  
Patrick An Phu Nguyen, Andrew William Senior

Date of Execution  
of Application:

Filing Date:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

**Google Inc.**

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

### **Multilingual, Acoustic Deep Neural Networks**

and identified as:

**Case No. 12-1466**

in the offices of McDONNELL BOEHNNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

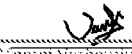
The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.


For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for

Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Signature:  Date: Mar 14, 2013  
Name: Vincent Olivier Vanhoucke


Signature:  Date: Mar 20, 2013  
Name: Jeffrey Adgate Dean

Signature:  Date: Mar 13, 2013  
Name: Georg Heigold

Signature:  Date: Mar 14, 2013  
Name: Marc aurelio Ranzato

Signature:  Date: Mar 15, 2013  
Name: Matthieu Dewin

Signature:  Date: Mar 20, 2013  
Name: Patrick An Phu Nguyen

Signature:  Date: Mar 14, 2013  
Name: Andrew William Senior