

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7441343

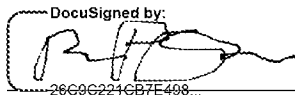
SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRIAN STROPE	03/23/2017
YUN-HSUAN SUNG	03/24/2017
MATTHEW HENDERSON	03/23/2017
RAMI AL-RFOU'	03/23/2017
RAYMOND KURZWEIL	03/31/2017
RECEIVING PARTY DATA	
Name:	GOOGLE INC.
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17502343
CORRESPONDENCE DATA	
Fax Number:	(502)561-0442
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	502-584-1135
Email:	kabbott@middletonlaw.com
Correspondent Name:	MIDDLETON REUTLINGER
Address Line 1:	401 S. 4TH STREET
Address Line 2:	SUITE 2600
Address Line 4:	LOUISVILLE, KENTUCKY 40202
ATTORNEY DOCKET NUMBER:	ZS202-22135 (1)
NAME OF SUBMITTER:	JOHN P. PURCELL
SIGNATURE:	/John P. Purcell/
DATE SIGNED:	07/20/2022
Total Attachments: 2	

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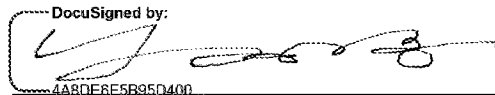
ASSIGNMENT

For valuable consideration, we, Brian Strobe of Palo Alto, California; Yun-hsuan Sung of Mountain View, California; Matthew Henderson of Redwood City, California; Rami Al-Rfou' of Mountain View, California; and Raymond Kurzweil of San Francisco, California, 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 **Cooperatively Training and/or Using Separate Input and Subsequent Content Neural Networks for Information Retrieval**, filed March 31, 2017 and assigned U.S. Serial Number 15/476,280, which claims priority to U.S. Provisional Application 62/460,554, filed February 17, 2017, 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 names 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.

DocuSigned by:

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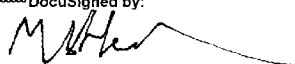
Brian Strobe

Date: 3/23/2017

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Yun-hsuan Sung

Date: 3/24/2017

DocuSigned by:

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Matthew Henderson

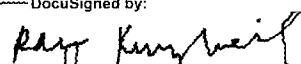
Date: 3/23/2017

DocuSigned by:

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Rami Al-Rfou'

Date: 3/23/2017

DocuSigned by:

FD3B97F144F0441

Raymond Kurzweil

Date: 3/31/2017