505807496 12/06/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5854325

		NEW ASSIGNMENT	
NATURE OF CONVEYA	NCE:	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
Loic Matthey-de-l'Endroi	t		06/04/2017
Arka Tilak Pal			06/12/2017
Shakir Mohamed			06/09/2017
Xavier Glorot			06/02/2017
Irina Higgins			06/12/2017
Alexander Lerchner			06/12/2017
RECEIVING PARTY DA			
Name:	DEEPMIND TECHNOLOGIES LIMITED		
Street Address:	5 NEW STREET SQUARE		
City:	LONDON		
State/Country:	UNITED KINGDOM		
Postal Code:	EC4A 3TW		
PROPERTY NUMBERS Property Type	Total: 1	Number	
Application Number:		16532191	
CORRESPONDENCE D		(877)769-7945	
CORRESPONDENCE E Fax Number: <i>Correspondence will b</i>	e sent to	(877)769-7945 • the e-mail address first; if that is uns I; if that is unsuccessful, it will be sen	
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CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NO NAME OF SUBMITTER:	e sent to provided	b the e-mail address first; if that is uns l; if that is unsuccessful, it will be sentend +1 (650) 839-5164 apsi@fr.com, thames@fr.com MICHAEL PORTNOV FISH & RICHARDSON P.C. P.O.BOX 1022 MINNEAPOLIS, MINNESOTA 55440-102 45288-7962002 SARAH THAMES	t via US Mail.
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Total Attachments: 3 source=62083253#page1.tif source=62083253#page2.tif source=62083253#page3.tif

ASSIGNMENT and CONFIRMATION

We, Loic Matthey-de-l'Endroit, Arka Tilak Pal, Shakir Mohamed, Xavier Glorot, Irina <u>Higgins</u> and <u>Alexander Lerchner</u>, each hereby confirm the assignment and transfer to Google Inc., a Delaware corporation having a place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043, and its successors and assigns (collectively, "ASSIGNEE") of all of our individual and joint right, title and interest throughout the world in and to any and all inventions and improvements that are the subject or subjects of a patent application entitled

TRAINING VARIATIONAL AUTOENCODERS TO GENERATE DISENTANGLED LATENT FACTORS

that names us as inventors, and was filed in <u>the United States</u> on May 19, 2017 as Application No. <u>15/600.696</u>. We authorize and request the attorneys filing the application to complete this assignment by inserting the filing date and serial number of the application when known. The foregoing assignment and transfer occurred by operation of one or more agreements relating to our employment by Google Inc. or an affiliate of Google Inc. Should any of us have any remaining interest, we each hereby assign and transfer any right, title or interest we may have in the above-mentioned inventions and improvements anywhere in the world to ASSIGNEE.

This assignment and confirmation includes the foregoing patent application or patent; all legal equivalents thereof in any country and all patents issuing therefrom; all patents, utility models, and design registrations granted for any of said inventions and improvements throughout the world; and the right to claim priority based on the filing date of the foregoing patent application or patent 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. We authorize ASSIGNEE to apply in all countries in our names or in the name of ASSIGNEE for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for the assigned inventions and improvements.

PATENT REEL: 051200 FRAME: 0589 The foregoing assignments have been made for good and valuable consideration, the receipt of which is hereby acknowledged, and in accordance with the employment-related agreements existing at the time the above-mentioned inventions and improvements were made.

We hereby represent and covenant that no assignment, agreement or encumbrance has been or will be made or entered into by us that would conflict with the abovementioned assignment of the inventions and improvements to ASSIGNEE.

We further covenant for ourselves and our respective heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents relating to any of the above-mentioned inventions and improvements, patent applications, patents and legal equivalents, as may be known and accessible to us; to testify as to the same in any interference, litigation, or proceeding relating thereto; and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce any of the above-mentioned applications, inventions and improvements, patents and equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Dated: 6/4/2017

Loic Matthey-de-l'Endroit

Dated: 6/12/2017

cossianed by:

Arka Tilak Pal

DecaStreed by: Maria

Shakir Mohamed

Dated:_____7

PATENT REEL: 051200 FRAME: 0590

Attorney's Docket No.: 16113-7962001 Page 3 of 3

Decessinged by: onsk

Dated: 6/2/2017

Dated:_____

Dated: 6/12/2017

Xavier Glorot

Irina Higgins

 Decusioned by Alam

Alexander Lerchner

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