# 504914300 05/15/2018

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4961044

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY DA	ATA	·		
		Name	Execution Date	
PAUL NICHOLAS WHAT	MOUGH		04/04/2018	
IAN RUDOLF BRATT			04/27/2018	
MATTHEW MATTINA			04/18/2018	
RECEIVING PARTY DA	ТА			
Name:	ARM LIMIT	ED		
Street Address:	110 FULBOURN ROAD			
City:	CAMBRIDGE			
State/Country:	UNITED KINGDOM			
Postal Code:	CB1 9NJ			
	Totolu 1			
PROPERTY NUMBERS Total: 1 Property Type		Number	]	
Application Number:	159	45952	1	
	(30 <sup>-</sup> sent to the	1)668-3074 e e-mail address first; if that is uns that is unsuccessful, it will be ser		
		-668-3073		
•		on@levequeip.com		
•		EQUE INTELLECTUAL PROPERTY LAW, P.C.		
		E. 4TH STREET, #102 DERICK, MARYLAND 21701		
		-		
ATTORNEY DOCKET NUMBER:		P04768US.FAMILY		
NAME OF SUBMITTER:		RENEE' MICHELLE LEVEQUE		
SIGNATURE:		/Renee' Michelle Leveque/		
DATE SIGNED:		05/15/2018	05/15/2018	
Total Attachments: 4 source=P04768USfamily_ source=P04768USfamily_ source=P04768USfamily_ source=P04768USfamily_	ASN#page2 ASN#page3	.tif .tif		

#### JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

(1) Paul Nicholas Whatmough, a resident of Cambridge, Massachusetts, United States of America,

(2) Ian Rudolf Bratt, a resident of Portola Valley, California, United States of America,

(3) Matthew Mattina, a resident of Boylston, Massachusetts, United States of America,

have invented certain new and useful improvements in:

#### Systolic Convolutional Neural Network (US Application Number 15/945,952 filed 5 April 2018)

and have executed a declaration for an application for a United States Patent disclosing and identifying the invention, the last completed declaration being executed on  $\underline{17}$  MRU  $\underline{W}$ 

WHEREAS Arm Limited (hereinafter termed "Assignee"), a corporation organized and existing under the laws of the United Kingdom, having a place of business at 110 Fulbourn Road, Cambridge CB1 9NJ, United Kingdom, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE. in consideration of Ten Dollars (\$10.00) and other good and valuable consideration from said Assignce, the receipt-in-full and sufficiency of which are hereby acknowledged by said Inventor:

I. Said Inventor does hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any and all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a re-examination certificate for any and all of said patents.

2. Said Inventor hereby covenants and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths. specifications, declarations or other papers, and other assistance all to the extent deemed essential by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

### PATENT REEL: 045803 FRAME: 0524

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor and said Inventor's legal representatives.

4. Said Inventor hereby warrants and represents that said Inventor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Inventor understands and agrees that Assignee's attorneys Leveque Intellectual Property Law, P.C. have represented only Assignee and will continue to represent only Assignee with respect to this invention.

Date: 4th APRIL 2019

Pon (1)

Paul Nicholas Whatmough

Date:

(2)

Ian Rudolf Bratt

Date:\_\_\_\_\_

(3)

Matthew Mattina

2

## PATENT REEL: 045803 FRAME: 0525

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor and said Inventor's legal representatives.

4. Said Inventor hereby warrants and represents that said Inventor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Inventor understands and agrees that Assignee's attorneys Leveque Intellectual Property Law, P.C. have represented only Assignee and will continue to represent only Assignee with respect to this invention.

(1)

Date:

Paul Nicholas Whatmough

Date: (2)27/4/18

Ian Rudolf Bratt

Date:

(3)

Matthew Mattina

2

## PATENT REEL: 045803 FRAME: 0526

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor and said Inventor's legal representatives.

4. Said Inventor hereby warrants and represents that said Inventor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Inventor understands and agrees that Assignee's attorneys Leveque Intellectual Property Law, P.C. have represented only Assignee and will continue to represent only Assignee with respect to this invention.

(1)

Date:\_\_\_\_\_

Paul Nicholas Whatmough

Date:\_\_\_\_\_

(2)

(3)

2

Ian Rudolf Bratt

Date: 4/18/2018

an-\_\_\_\_\_

Matthew Mattina

**RECORDED: 05/15/2018**