PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AYYAVU MADHAVARAJ	10/10/2017
SRI VENKATA SURYA SIVA RAMA KRISHNA GARIMELLA	10/07/2019

RECEIVING PARTY DATA

Name:	AMAZON TECHNOLOGIES, INC.
Street Address:	PO BOX 81226
City:	SEATTLE
State/Country:	WASHINGTON
Postal Code:	98108-1226

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15393972

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	30197-003001
NAME OF SUBMITTER:	CASSIE A. ZALESKI
SIGNATURE:	/Cassie A. Zaleski/
DATE SIGNED:	10/10/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5
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source=30197-003001_ASI#page3.tif
source=30197-003001_ASI#page4.tif

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. <u>15/393,972</u>

Attorney Docket No. <u>30197-003001</u>

Filing Date <u>December 29, 2016</u>

Client Docket No. P33542-US

PARTIES TO THE ASSIGNMENT

<u>Assignor(s):</u>
Ayyavu Madhavaraj
410 Terry Avenue North
Seattle, WA 98109-5210

Sri Venkata Surya Siva Rama Krishna Garimella
410 Terry Avenue North
Seattle, WA 98109-5210

<u>Assignee:</u>
Amazon Technologies, Inc.
PO Box 81226
Seattle, WA 98108-1226

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"INITILIAZING AND LEARNING RATE ADJUSTMENT FOR RECTIFIER LINEAR UNIT BASED ARTIFICIAL

NEURAL" (Invention) for which a non-provisional application for United States Letters Patent

(Application):

☒ was filed on <u>December 29, 2016</u> and accorded U.S. Application No. <u>15/393,972</u>; or

☐ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT

for recordation.

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/393,972   Attorney Docket No. 30197-003001

Filing Date December 29, 2016   Client Docket No. P33542-US

Title of Invention: INITIALIZING AND LEARNING RATE ADJUSTMENT FOR RECTIFIED LINEAR UNIT BASED ARTIFICIAL NEURAL NETWORK

Inventors: **Ayyavu Madhavaraj and Sri Venkata Surya Siva Rama Krishna Garimella**

ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of

Occhiuti & Rohlicek LLP, associated with Customer No. 69713, to insert in the header above and

here in parentheses (U.S. Patent Application No. 15/393,972, filed December 29, 2016) this

application's U.S. application number and filing date, when known.

WHEREAS, ASSIGNEE, a corporation of the State of Nevada, is desirous of acquiring the

entire right, title and interest in and to the Invention and in and to any letters patent that may be

granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which

is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its

successors and assigns, the entire right, title and interest in and to said Invention and any

improvements thereto, said Application and any and all letters patent which may be granted for

said Invention in the United States of America and its territorial possessions and in any and all

foreign countries, and in any and all provisional, divisions, reissues, re-examinations and

continuations thereof, including the right to file foreign applications directly in the name of

ASSIGNEE and to claim priority rights deriving from said Application to which said foreign

applications are entitled by virtue of international convention, treaty or otherwise, said Invention,

Application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its

successors and assigns for their use and benefit and of their successors and assigns as fully and

entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment,

transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner

of Patents and Trademarks, as well as all other applicable patent offices throughout the world, to

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/393,972   Attorney Docket No. 30197-003001

Filing Date December 29, 2016   Client Docket No. P33542-US

Title of Invention: INITIALIZING AND LEARNING RATE ADJUSTMENT FOR RECTIFIED LINEAR UNIT BASED ARTIFICIAL NEURAL NETWORK

Inventors: **Ayyavu Madhavaraj and Sri Venkata Surya Siva Rama Krishna Garimella**

issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said Invention, for litigation regarding said letters patent, or for the purpose of protecting title to said Invention or letters patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said letters patent before or after issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Invention or said Application, and testify in any legal proceeding, assist in the preparation of any other patent property relating to the Application and the Invention or any Improvements made thereto, sign/execute all lawful papers, provide all requested documents, execute and make all rightful oaths and/or declarations in connection with the Application and the Invention including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Invention in all countries. These provisions are binding upon ASSIGNOR's heirs, legal representatives, administrators, and assigns.

<u>**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**</u>

U.S. Patent Appln. No. <u>15/393,972</u>   Attorney Docket No. <u>30197-003001</u>

Filing Date <u>December 29, 2016</u>   Client Docket No. <u>P33542-US</u>

Title of Invention: <u>INITIALIZING AND LEARNING RATE ADJUSTMENT FOR RECTIFIED LINEAR UNIT BASED ARTIFICIAL NEURAL NETWORK</u>

Inventors: **Ayyavu Madhavaraj and Sri Venkata Surya Siva Rama Krishna Garimella**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

☐ the attached application; or

☒ United States Patent Application number <u>15/393,972</u> filed on <u>December 29, 2016</u>; or

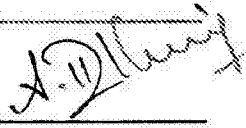☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

Ayyavu Madhavaraj

Date   Oct, 10, 2017

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 15/393,972

Attorney Docket No. 30197-003001

Filing Date December 29, 2016

Client Docket No. P33542-US

Title of Invention: INITIALIZING AND LEARNING RATE ADJUSTMENT FOR RECTIFIED LINEAR UNIT BASED ARTIFICIAL NEURAL NETWORK

Inventors: **Ayyavu Madhavaraj and Sri Venkata Surya Siva Rama Krishna Garimella**

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

☐ the attached application; or

☒ United States Patent Application number 15/393,972972 filed on December 29, 2016; or

☐ PCT International Application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, and acknowledge the duty to disclose to the US Patent & Trademark Office all information known to me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

G. S. V. S. C A K

Sri Venkata Surya Siva Rama Krishna Garimella

10/07/2019
Date