#### 503202287 03/03/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3248902

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TAESUP MOON	01/29/2015
YEHA LEE	02/02/2015
HEEYOUL CHOI	01/29/2015

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City:	SUWON-SI		
State/Country:	KOREA, REPUBLIC OF		

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	14636684	

## CORRESPONDENCE DATA

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NAME OF SUBMITTER:	LOREN H. TUNG
SIGNATURE:	/Loren H. Tung/
DATE SIGNED:	03/03/2015

### **Total Attachments: 4**

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> **PATENT** REEL: 035076 FRAME: 0121

503202287

# **DECLARATION**

DECLARATION
As a below-named inventor, I hereby declare that this declaration is directed to the application attached hereto, or
to United States Application Number or PCT International Application Number14/636,684
filed on March 3, 2015 (if applicable), entitled:
NEURAL NETWORK TRAINING METHOD AND APPARATUS, AND DATA PROCESSING APPARATUS
The above-identified application was made or authorized to be made by me.
I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.
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.
I have reviewed and understand the contents of the above-identified application, including the claims.
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.
ASSIGNMENT
For valuable consideration, I, as a below-named assignor, hereby assign to:
SAMSUNG ELECTRONICS CO., LTD. 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do, 443-742 Republic of Korea
and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest
throughout the world in the inventions and improvements that are the subject of the application identified in the
above declaration, which is United States Application Number or PCT International Application Number
<u>14/636,684</u> filed on <u>March 3, 2015</u> .
I authorize and request the attorneys appointed in the above-identified application to hereafter complete this Assignment by inserting above the application number and the filing date of the above-identified application when known, and to correct any typographical errors that may be discovered in this Assignment.
This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified application under the International Convention for the Protection of Industrial Property, the Patent Cooperation

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Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements that are the subject of the above-

identified application; and I agree for myself and my 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.

in witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	MOON, Taesup	
Inventor's Signature	Date / 29/2015	
Residence (City, Country)	Seoul, Republic of Korea	
c/o Samsung Advanced Institute of Technology 130 Samsung-ro , Youngtong-gu Suwon-si, Gyeonggi-do, 443-803 Republic of Korea		

Inventor's Legal Name	LEE, Yeha	***************************************	
		Date	/ /2015
Residence (City, Country)	Hwaseong-si, Republic of Korea		
Mailing Address	c/o Samsung Advanced Institute of Technology 130 Samsung-ro ,Youngtong-gu Suwon-si, Gyeonggi-do, 443-803 Republic of Korea		

Inventor's Legal Name	CHOI, Heeyoul	***************************************	
Inventor's Signature	Mi	Date	「 / ふぐ /2015
Residence (City, Country)	Hwaseong-si, Republic of Korea		
Mailing Address	c/o Samsung Advanced Institute of Technology 130 Samsung-ro ,Younglong-gu Suwon-si, Gyeonggi-do, 443-803 Republic of Korea		

### **DECLARATION**

As a below-named inventor, I hereby declare that this declaration is directed to the application attached hereto, or
to United States Application Number or PCT International Application Number 14/636,684
filed on March 3, 2015 (if applicable), entitled:
NEURAL NETWORK TRAINING METHOD AND APPARATUS, AND DATA PROCESSING APPARATUS
The above-identified application was made or authorized to be made by me.
I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.
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.
I have reviewed and understand the contents of the above-identified application, including the claims.
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.
ASSIGNMENT
For valuable consideration, I, as a below-named assignor, hereby assign to:
SAMSUNG ELECTRONICS CO., LTD. 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do, 443-742 Republic of Korea
and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest
throughout the world in the inventions and improvements that are the subject of the application identified in the
above declaration, which is United States Application Number or PCT International Application Number
14/636,684 filed on
I authorize and request the attorneys appointed in the above-identified application to hereafter complete this Assignment by inserting above the application number and the filing date of the above-identified application when known, and to correct any typographical errors that may be discovered in this Assignment.
This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified

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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 I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements that are the subject of the above-

identified application; and I agree for myself and my 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.

In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	MOON, Taesup			
Inventor's Signature		Date	ı	/2015
Residence (City, Country)	Seoul, Republic of Korea			
Mailing Address	c/o Samsung Advanced Institute of Technology 130 Samsung-ro ,Youngtong-gu Suwon-si, Gyeonggi-do, 443-803 Republic of Korea			

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Residence (City, Country)	Hwaseong-si, Republic of Korea		
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