### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4970072

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BO ZHENG	04/25/2018
ZHIBIN LIU	04/25/2018
RIJIA LIU	04/25/2018
QIAN CHEN	04/25/2018

#### **RECEIVING PARTY DATA**

Name:	TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED	
Street Address:	35/F,TENCENT BUILDING, KEJIZHONGYI ROAD, MIDWEST DISTRICT OF HI-TECH PARK, NANSHAN DISTRICT	
City:	SHENZHEN, GUANGDONG	
State/Country:	CHINA	
Postal Code:	518057	

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

Property Type	Number
Application Number:	15984754

#### **CORRESPONDENCE DATA**

(703)413-2220 Fax Number:

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.

(703) 413-3000 Phone: Email: yzhuang@oblon.com **Correspondent Name:** OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	512363US	
NAME OF SUBMITTER:	YAN ZHUANG	
SIGNATURE:	/Yan Zhuang/	
DATE SIGNED:	05/21/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 4** 

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# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	MACHINE LEARNING-BASED NETWORK MODEL BUILDING METHOD AND APPARATUS	
As the below name	d inventor, I hereby declare that:	
This declaration 🗵	The attached application, or	
is directed to:	United States application or PCT international application number	
The above-identifie	d application was made or authorized to be made by me.	
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.	
WHEREAS, TE	NCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED	
Midwest District of the entire right, tit	d to as "ASSIGNEE") having places of business at: 35/F, Tencent Building, Kejizhongyi Road, f Hi-tech Park, Nanshan District, Shenzhen, Guangdong, 518057, China, is desirous of acquiring le and interest in and to said invention and in and to any Letters Patent that may be granted ited States and its territorial possessions and in any and all foreign countries;	
acknowledged, and said ASSIGNEE, the and in all foreign cother relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and mational Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, mewals thereof.	
any and all foreign assignee of my ent (his) successors an	ze and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made.	
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.		
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
LEGAL NAME OF	FINVENTOR	
Inventor: Bo ZHI	ENG Date: 2018, 4, 25	
Signature R. 7		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

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acknowledged, and said ASSIGNEE, t and in all foreign c other relevant Inter interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby I for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and mational Treaties and Arrangements from the aforesaid application) and the entire right, title and any and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, mewals thereof.	
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.		
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.		
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LEGAL NAME OF INVENTOR		
Inventor: Zhibin, LIU Date: 2018. 4. 25		
Signature: Zh	ibin /IU	

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LEGAL NAME OF	INVENTOR	
Inventor: Rijia Ll	U Date: 2018. 4.25	
Signature: Rij	ia LIV	

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As the below name	d inventor, I hereby declare that:	
This declaration	The attached application, or	
is directed to:	United States application or PCT internations filed on	
The above-identifie	ed application was made or authorized to be ma	de by me.
I believe that I am t	the original inventor or an original joint invento	or of a claimed invention in the application.
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	vledge that any willful false statement made in tument of not more than five (5) years, or both.	this declaration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	FINVENTOR	
Inventor: Qian C	HEN	Date: 2018 4. 75
Signature Gi		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW

1940 DUKE STREET

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**RECORDED: 05/21/2018**