505815200 12/11/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5862029

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEPHAN WENGER	10/31/2019
JING YE	10/30/2019
BYEONGDOO CHOI	11/07/2019
SHAN LIU	10/31/2019

RECEIVING PARTY DATA

Name:	TENCENT AMERICA LLC	
Street Address:	2747 PARK BOULEVARD	
City:	PALO ALTO	
State/Country:	CALIFORNIA	
Postal Code:	94306	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16710389

CORRESPONDENCE DATA

Fax Number: (202)293-7860

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.

Phone: 202-293-7060

Email: mguerrero@sughrue.com, sughrue@sughrue.com

SUGHRUE MION, PLLC **Correspondent Name:**

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Address Line 2: SUITE 900

Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	Q249158	
NAME OF SUBMITTER:	MELANIE GUERRERO	
SIGNATURE:	/Melanie Guerrero/	
DATE SIGNED:	12/11/2019	

Total Attachments: 12

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ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

專利申請轉讓聲明書 (37 CFR 1.63)

Chinese Language Assignment with Declaration

整於,我/我們,即下面簽名之發明人(以下簡稱「轉讓 人」),已發明下文確認之申請中所述的若干改善之處;和	Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and
鑒於。(地址位於)(「承 讓人」)意欲購買申請和發明以及就此隨後獲取的任何美國 專利中的全部權利、所有權和權益;	Whereas, TENCENT AMERICA LLC of 2747 Park Boulevard, Palo Alto, CA, 94306, United States, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;
因此,就有值代價而富、相關收據特此確認:	Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
我/我們,上文指名轉讓人,特此向上文指名承讓人及其繼承人和受讓人出售、轉讓及出讓該申請中遊話的適用於美剛的全部權利,所有權和權益,及該申請中披護的適用於美利堅合眾國的金部權利,所有權和權益,及該申請中披護的適用於美利堅合眾國的發明(包括該申請的所有分案和延續申請),及可能據此顯發的所有美國專利證書及所有再頒發之專利證書(包括35 USC 1191頁下的要求優先權的權利及就過往損害賠償提起訴訟的權利),及適用於所有其他國家的發明(包括經緣訂1883年巴黎國際公約項下的優先權);我/我們請求美國專利及商標局局長向承讓人及其繼承人和受讓人簽裝該申請中所載列之發明的任何專利證書,及我/我們特此同意承讓人可申請外國發明之專利證書,且我/我們將會應承讓人可申請外國發明之專利證書,且我/我們將會應承讓人的要求,無價簽立承讓人申請美國和外國專利所必需的所有文件。	I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.
(合法化審批無需記錄,但須作為35 USC 26U項下執行的表 面證據)	(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)
作為下述發明人,我特此聲明:	As the below named inventor, I hereby declare that:
該轉讓聲明書乃有關:	This assignment with declaration is directed to:
□ 強耕的申請或	The attached application, or
□ 於日提交的 美國專利申請或PCT國際申請號碼 	United States Application or PCT International Application Number
該申請有權:	The application is entitled:
	ADAPTIVE PICTURE RESOLUTION RESCALING FOR INTER-PREDICTION AND DISPLAY

[Page 1]

我已做出或授權他人做出上述確認的申請。

我相信我是申請中要求保護的發明的原始發明人或原始聯合發明人之一。

我己讓閱並了解提出該轉讓聲明的申請內容。

根據37 CFR 1.56之規定,我知悉我有義務向專利局透露據我 所知的有關專利性的所有實質性資訊。

特此確認,根據18 USC 1001之規定,於本轉讓發明書中蓄意 做出任何虛假發明會被處以罰款或五 (5) 年以下監禁或兩者 並罰。 The above identified application was made or was 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 application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):

The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

Signature

Date March 17, 2014

NAME OF SOLE OR FIRST INVENTOR: 唯一發明人或第一發明人姓名、		
Given Name (first and middle [if any]) 名字(名和中名〔若有〕) Stephan	Family Name or Surname 姓氏	WENGER
Inventor's signature 發明人簽名		Date 日期 10/31/2019
Residence: 住所: Palo Alto, California, United States		
Mailing Address: - 選級地址: c/o TENCENT AMERICA LLC, 2747 Park Boule	vard, Palo Alto, California 9	4306, United States
NAME OF SECOND INVENTOR: 第二转明人终名:		
Given Name (first and middle {if any}) 名字(名和中名〔若有〕) Jing	Pamily Name or Surname 姓氏	YE
Inventor's signature 發明人簽名		Date 日期
Residence: 住所: San Jose, California, United States		
Mailing Address: 遊訊地址: c/o TENCENT AMERICA LLC, 2747 Park Boule	vard, Palo Alto, California 9	4306, United States
NAME OF THIRD INVENTOR: 第三卷朝人姓名:		
Given Name (first and middle {if any}) 名字(名和中名〔若有〕) Byeongdoo	Family Name or Surname 姓氏	CHOI
Inventor's signature 發明人簽名		Date 日期
Residence: 住所: Palo Alto, California, United States		
Mailing Address: 透訊地址: c/o TENCENT AMERICA LLC, 2747 Park Boule	vard, Palo Alto, California 9	4306, United States
NAME OF FOURTH INVENTOR: 筹额發明人姓名:		
Given Name (first and middle [if any]) 名字(名和中名〔若有〕) Shan	Family Name or Surname 姓氏	LIU
Inventor's signature 發明人簽名		Date 日期
Residence: 住所: San Jose, California, United States		
Mailing Address: 通無連址: c/a TENICENT AMERICA LLC 2747 Park Roule	ward Pala Alta California 8	3386 United States

PATENT

[Page 3]

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

專利申請轉讓聲明書 (37 CFR 1.63)

Chinese Language Assignment with Declaration

鑒於,我/我們,即下面簽名之發明人(以下簡稱「轉讓 人」),已發明下文確認之申請中所述的若干改善之處,和	Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and
鑒於, (地址位於)(「承 讓人」)意欲購買申請和發明以及就此隨後獲取的任何美國 專利中的全部權利、所有權和權益;	Whereas, TENCENT AMERICA LLC of 2747 Park Boulevard, Palo Alto, CA, 94306, United States, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;
因此,就有值代價而音、相關收據特此確認:	Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
我/教們,上文指名轉讓人,特此向上文指名承讓人及其繼承人和受讓人出售、轉讓及出讓該申請中適用於美利堅合眾國的全部權利、所有權和權益,及該申請中披露的適用於美利堅合眾國的發明(包括該申請的所有分案和延繳申請).及可能據此頒發的所有美國專利證書及所有再頒發之專利證書(包括35 iSC 119項下的要求優先權的權利及就過往損害賠償提起訴訟的權利),及適用於所有其他國家的發明(包括經緣訂1883年巴黎國際公約項下的優先權);我/我們請求美國專利及商標局局長向承讓人及其繼承人和受讓人簽穀該申請中所載列之發明的任何專利證書,及我/我們特此同意承讓人可申請外國發明之專利證書,且我/我們將會應承讓人的要求,無償簽立承讓人申請美國和外國專利所必需的所有文件。	I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assigner, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.
(合法化審批無需記錄、但須作為35 USC 261項下執行的表 面證據)	(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)
作為下述發明人,我特此聲明:	As the below named inventor, I hereby declare that:
該轉讓聲明盡乃有關:	This assignment with declaration is directed to:
□ 縫附的申請或	∑ The attached application, or
□ 於	United States Application or PCT International Application Numberfiled on
該申請有權:	The application is entitled:
	ADAPTIVE PICTURE RESOLUTION RESCALING FOR INTER-PREDICTION AND DISPLAY

[Page 1]

我已做出或授權他人做出上述確認的申請。

我相信我是申請中要求保護的發明的原始發明人或原始聯合 發明人之一。

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Signature

Date

March 17, 2014

NAME OF SOLE OR FIRST INVENTOR: 唯一發明人或第一發明人姓名、		
Given Name (first and middle [if any]) 名字(名和中名〔若有〕) Stephan	Family Name or Surname 姓氏	WENGER
Inventor's signature 發明人簽名	4	Date 日期
Residence: 住所: Palo Alto, California, United States		
Mailing Address: 邊派地址: c/o TENCENT AMERICA LLC, 2747 Park Bouler	vard, Palo Alto, California 9	4306, United States
NAME OF SECOND INVENTOR: 第二發明人姓名:		
Given Name (first and middle [if any]) 名字(名和中名〖若有〗) Jing	Family Name or Surname 姓氏	YE
Inventor's signature Jing Ge 豫明太簽名		Date 日期 10/30/2019
Residence: 住所: San Jose, California, United States		
Mailing Address: 透影地址: c/o TENCENT AMERICA LLC, 2747 Park Bonler	vard, Palo Alto, California 9	4306, United States
NAME OF THIRD INVENTOR: 第三發蝦人姓名:		
Given Name (first and middle [if any]) 名字(名称中名〔若有〕) Byeongdoo	Family Name or Surname 姓氏	CHOI
Inventor's signature 發明人簽名	4	Date 日期
Residence: 住所: Palo Alto, Culifornia, United States		
Mailing Address: 適部地址: c/o TENCENT AMERICA LLC, 2747 Park Boule	vard, Palo Alto, California 9	4306, United States
NAME OF FOURTH INVENTOR: 藻胆發網人姓名:		
Given Name (first and middle [if any]) 名字(名和中名(若有)) Shati	Family Name or Sumame 姓氏	LIU
Inventor's signature 發明人簽名		Date 日期
Residence: 住所: San Jose, California, United States	***************************************	
Mailing Address: 遺無地址: c/o TENCENT AMERICA LLC, 2747 Park Bouler	vard, Palo Alto, California 9	4306, United States

PATENT

[Page 3]

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

專利申請轉讓聲明書 (37 CFR 1.63)

	Enment with Declaration
鑒於,我/我們,即下面簽名之發明人(以下屬稱「轉讓 人」),己發明下文確認之申請中所述的若干改善之處;和	Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and
鑒於,(地址位於)(『承 讓人』)意欲購買申請和發明以及就此隨後獲取的任何美國 專利中的全部權利,所有權和權益;	Whereas, TENCENT AMERICA LLC of 2747 Park Boulevard Palo Alto CA 94306 United States, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;
因此,就有值代價而言,相關收據特此確認;	Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
我/我們,上文指名轉讓人、特此向上文指名承讓人及其繼承人和受讓人出售、轉讓及出讓該申請中適用於美利堅合眾國的全部權利、所有權和權益,及該申請中披露的適用於美利堅合眾國的發明(包括該申請的所有分案和延續申請),及可能據此滿發的所有美國專利證書及所有再頒發之專利證書(包括35 USC 1191頁下的要求優先權的權利及就過往損害賠償提起訴訟的權利),及適用於所有其他國家的發明(包括經修行1883年已黎國際公約項下的優先權),我/我們的說終修行1883年已黎國際公約項下的優先權),我/我們的說求美國專利及商標局局長向承讓人及其繼承人和受讓人簽發該申請中所載列之發明的任何專利證書,及我/我們特此同意承讓人可申請外國發明之專利證書,且我/我們將會應承讓人可申請外國發明之專利證書,且我/我們將會應承讓人的要求,無價簽立承讓人申請美國和外國專利所必需的所有文件。	I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns, and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.
(合法化審批無需記錄,但須作為35 USC 261項下執行的表 面證據)	(Legalization not required for recording but is prime facie evidence of execution under 35 USC 261)
作為下述發明人,我特此聲明;	As the below named inventor, I hereby declare that:
該轉讓聲明得乃有關,	This assignment with declaration is directed to:
□ 髓附的申請或	The attached application, or
□ 於	United States Application or PCT International Application Numberfiled on
该申請有權:	The application is entitled: ADAPTIVE PICTURE RESOLUTION RESCALING FOR INTER-PREDICTION AND DISPLAY
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我已做出或授權他人做出上達確認的申請。

我相信我是申請中要求保護的發明的原始發明人或原始聯合 發明人之一。

我已讓閱並了解提出該轉讓聲明的申請內容。

根據37 CFR 1.56之規定,我知悉我有義務向專利周遊器據我 所知的有關專利性的所有實質性資訊。

特此確認、根據18 USC 1001之規定、於本轉讓聲明數中蓄意 做出任何虛假聲明會被處以罰款或五(5)年以下監禁或兩者 並翻。 The above identified application was made or was authorized to be made by me.

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The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

Signature

Date

March 17, 2014

[Page 2]

PATENT---

Given Name (first and middle [if any]) 名字(名和中名 [若有])	Family Name or Surname 姓氏
Stephan Inventor's signature 發明人簽名	Date WENGER
Residence: 住所: Palo Alto, California, United States	
failing Address:	747 Dook Bustowed D.J. 44, C.V.
NAME OF SECOND INVENTOR: 第二發明人姓名:	747 Park Boulevard, Palo Alto, California 94306, United States
Jiven Name (first and middle [if any]) B子(名和中名 [취심]) - Jing	Family Name or Surname 好氏 YE
nventor's signature 律時人簽名	Date E M
iesidence: EM: San Jose, California, United States	
failing Address:	187 RJ. P
AME OF THIRD INVENTOR: S. 新明人姓名:	47 Park Boulevard, Palo Alto, California 94306, United States
iven Name (first and middle [if any]) 字(名和中名【若有】) Byeongdoo	Family Name or Surname 姓氏 CHOI
ventor's signature 明人簽名	Date 11/02/2019
esidence:	
siling Address; 28 W 45	47 Park Boulevard, Palo Alto, California 94306, United States
AME OF FOURTH INVENTOR: 四致明人姓名。	Valle State Med, v Bio Price, Camorina 94506, Office States
ven Name (first and middle [if any]) 字(名和中名〔若有〕) Shan	Family Name or Surname 姓氏
ventor's signature 明人簽名	Date II (8)
sidence: R: San Jose, California, United States	
ling Address:	

[Page 3]

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

專利申請轉讓聲明書 (37 CFR 1.63)

Chinese Language Assignment with Declaration

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and	
Whereas, TENCENT AMERICA LLC of 2747 Park Boulevard, Palo Alto, CA, 94306, United States, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;	
Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,	
I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.	
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As the below named inventor, I hereby declare that:	
This assignment with declaration is directed to:	
∑ The attached application, or	
United States Application or PCT International Application Number	
The application is entitled:	
ADAPTIVE PICTURE RESOLUTION RESCALING FOR INTER-PREDICTION AND DISPLAY	

[Page 1]

我已做出或授權他人做出上述確認的申請。

我相信我是申請中要求保護的發明的原始發明人或原始聯合發明人之一。

我己讓閩並了解提出該轉讓聲明的申請內容。

根據37 CFR 1.56之規定,我知悉我有義務向專利局透露據我 所知的有關專利性的所有實質性資訊。

特此確認,根據18 USC 1001之規定,於本轉讓聲明書中蓄意 做出任何虛假聲明會被處以罰款或五 (5) 年以下監禁或兩者 並罰。 The above identified application was made or was 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 application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):

The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

Signature

Date

March 17, 2014

NAME OF SOLE OR FIRST INVENTOR:			
唯一發明人或第一發明人姓名。			
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Inventor's signature		WENGER Date	
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NAME OF THIRD INVENTOR: 第三發明人姓名:			
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NAME OF FOURTH INVENTOR: 筹期發明人姓名:			
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Inventor's signature 發明人簽名 Shan Liu		Date ^{員數} 2019-10-31	
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