

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6805785

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	NING ZHANG	02/25/2021
	FANG QIAN	02/08/2021
	JIANGWEI LIU	02/22/2021
	WEI XIONG	02/08/2021
	DEFENG LIU	02/25/2021
	HAITONG YU	02/25/2021
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED	
<b>Street Address:</b>	35/F, TENCENT BUILDING, KEJIZHONGYI ROAD	
<b>Internal Address:</b>	MIDWEST DISTRICT OF HI-TECH PARK, NANSHAN DISTRICT	
<b>City:</b>	SHENZHEN, GUANGDONG	
<b>State/Country:</b>	CHINA	
<b>Postal Code:</b>	518057	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	17192708
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(650)843-4001	
<i>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.</i>		
<b>Phone:</b>	6508434000	
<b>Email:</b>	cheryl.rogers@morganlewis.com	
<b>Correspondent Name:</b>	YALEI SUN	
<b>Address Line 1:</b>	MORGAN, LEWIS & BOCKIUS	
<b>Address Line 2:</b>	1400 PAGE MILL ROAD	
<b>Address Line 4:</b>	PALO ALTO, CALIFORNIA 94304	
<b>ATTORNEY DOCKET NUMBER:</b>	031384-7073-US	
<b>NAME OF SUBMITTER:</b>	YALEI SUN	
<b>SIGNATURE:</b>	/Yalei Sun/	
<b>DATE SIGNED:</b>	07/09/2021	

PATENT

**Total Attachments: 6**

source=031384-7073-US Executed DEC-ASSIGN#page1.tif

source=031384-7073-US Executed DEC-ASSIGN#page2.tif

source=031384-7073-US Executed DEC-ASSIGN#page3.tif

source=031384-7073-US Executed DEC-ASSIGN#page4.tif

source=031384-7073-US Executed DEC-ASSIGN#page5.tif

source=031384-7073-US Executed DEC-ASSIGN#page6.tif

**PATENT**

**REEL: 056808 FRAME: 0719**

**COMBINED ASSIGNMENT & DECLARATION**

**ASSIGNMENT**

WHEREAS, I hereinafter called the "Assignor", has made the invention described in the United States patent application entitled **METHOD AND APPARATUS FOR AUTOMATICALLY SPLITTING TABLE CONTENT INTO COLUMNS, COMPUTER DEVICE, AND STORAGE MEDIUM**, executed by Assignor on the same date as, or on a date prior to, this Assignment;

WHEREAS, Tencent Technology (Shenzhen) Company Limited, a corporation organized and existing under the laws of P. R. China, having a place of business at 35/F, Tencent Building, Kejizhongyi Road, Midwest District of Hi-tech Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, be it known that, for good and valuable consideration the receipt of which by the Assignor from Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignor hereby covenants and agrees, for both the Assignor and the Assignor's legal representatives, that the Assignor will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and that the Assignor will execute and

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

**DECLARATION**

As the below-named inventor, I hereby declare that:

This Declaration is directed to the attached application. I have reviewed and understand the contents of the above-identified patent application including the claims, and I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified patent application. The above-identified patent application was made or authorized to be made by me.

I acknowledge my duty to disclose to the United States Patent and Trademark Office all information that I know to be material to the patentability of this application as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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.

Further, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

Date 2021.02.25 Ning ZHANG L.S.  
Ning ZHANG

Date \_\_\_\_\_ Fang QIAN L.S.  
Fang QIAN

Date \_\_\_\_\_ Jiangwei LIU L.S.  
Jiangwei LIU

Date \_\_\_\_\_ Wei XIONG L.S.  
Wei XIONG

Date 2021.02.25

Defeng LIU  
Defeng LIU

L.S.

Date 2021.02.25

Haitong YU  
Haitong YU

L.S.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

**DECLARATION**

As the below-named inventor, I hereby declare that:

This Declaration is directed to the attached application. I have reviewed and understand the contents of the above-identified patent application including the claims, and I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified patent application. The above-identified patent application was made or authorized to be made by me.

I acknowledge my duty to disclose to the United States Patent and Trademark Office all information that I know to be material to the patentability of this application as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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.

Further, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

Date \_\_\_\_\_ Ning ZHANG L.S.

Date \_\_\_\_\_ Fang QIAN L.S.

Date 2021.2.22 Jiangwei Liu L.S.  
Jiangwei LIU

Date \_\_\_\_\_ Wei XIONG L.S.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

#### DECLARATION

As the below-named inventor, I hereby declare that:

This Declaration is directed to the attached application. I have reviewed and understand the contents of the above-identified patent application including the claims, and I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified patent application. The above-identified patent application was made or authorized to be made by me.

I acknowledge my duty to disclose to the United States Patent and Trademark Office all information that I know to be material to the patentability of this application as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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.

Further, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

Date \_\_\_\_\_

\_\_\_\_\_  
Ning ZHANG L.S.

Date 2021-02-08

\_\_\_\_\_  
Fang QIAN L.S.  
Fang QIAN

Date \_\_\_\_\_

\_\_\_\_\_  
Jiangwei LIU L.S.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

**DECLARATION**

As the below-named inventor, I hereby declare that:

This Declaration is directed to the attached application. I have reviewed and understand the contents of the above-identified patent application including the claims, and I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified patent application. The above-identified patent application was made or authorized to be made by me.

I acknowledge my duty to disclose to the United States Patent and Trademark Office all information that I know to be material to the patentability of this application as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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.

Further, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

Date \_\_\_\_\_  
Ning ZHANG \_\_\_\_\_ L.S.

Date \_\_\_\_\_  
Fang QIAN \_\_\_\_\_ L.S.

Date \_\_\_\_\_  
Jiangwei LIU \_\_\_\_\_ L.S.

Date 2021.02.08  
Wei XIONG \_\_\_\_\_ L.S.  
Wei XIONG