

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LIUWEN HUANG	03/21/2022
RECEIVING PARTY DATA		
Name:	TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED	
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PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	17693518
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NAME OF SUBMITTER:	SHANNON SHENTON	
SIGNATURE:	/Shannon Shenton/	
DATE SIGNED:	04/07/2022	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 3		
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source=Q272424_Executed_Combined_Assignment_with_Declaration_Updated_Liuwen_HUANG#page2.tif		
source=Q272424_Executed_Combined_Assignment_with_Declaration_Updated_Liuwen_HUANG#page3.tif		

COMBINED ASSIGNMENT & DECLARATION**ASSIGNMENT**

WHEREAS, I hereinafter called the "Assignor", have made the invention described in the attached United States patent application entitled METHOD FOR MANAGING NETWORK LIVE STREAMING DATA AND RELATED APPARATUS, AND DEVICE AND STORAGE MEDIUM.

WHEREAS, Tencent Technology (Shenzhen) Company Limited, 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 patent applications and or patents which may be filed and/or obtained for said invention in any country of the world, 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, any provisional application to which the patent application claims priority, 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, reissues 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.

Assignor represents and warrants that, to the best of its knowledge as of the date of this Assignment,

- Assignor has fully disclosed and/or claimed the invention, including all embodiments of the invention, in the application(s) and/or patent(s);
- Assignor has fully disclosed to the ASSIGNEE any refinements, improvements, and/or descriptions of the invention and/or of any embodiments of the invention, to the extent that the invention and/or any embodiments of the invention have been refined, improved, or disclosed beyond

that disclosed and/or claimed in the application(s) and/or patent(s); and

- Assignor is not aware of any basis for challenging the validity of any claim(s) of any patent(s), or the patentability of any claim(s) of any application(s), sold, assigned, and/or transferred by this Assignment.

Assignor will not challenge, and will not support any challenge to, the validity of any claim(s) of any patent(s), or the patentability of any claim(s) of any application(s), sold, assigned, and/or transferred by this Assignment, to the extent that such claim(s) are not materially broader than those that are contained or were contained in the patent(s) or application(s) at any time before the date of this Assignment. Assignor also will not challenge, and will not support any challenge to, the validity of any claim(s) of any patent(s), or the patentability of any claim(s) of any application(s), the subject matter of which is disclosed in the patent(s) to be issued for the invention and/or application(s) for the invention.

Assignor authorizes and request any official of the United States Patent and Trademark Office ("USPTO") and of any foreign patent office, to issue to the ASSIGNEE all patents for the invention and for the patent application in the U.S. and in any foreign country, as the assignee of the entire right, title, and interest in and to the same, for the sole use and benefit of the ASSIGNEE, for the full term for which the patent(s) extend, as if the same would have been held by Assignor had this Assignment not been made.

Assignor has the full right to convey the right, title, and interest being assigned by this Assignment, and has not executed and will not execute any agreement that conflicts with this Assignment.

Assignor will: (a) communicate to the ASSIGNEE, its successors and assigns, and its representatives, any facts known to Assignor regarding the invention, the patent application (including any divisional, continuation, continuation-in-part, substitute, renewal, and reissue), and any other application(s) or any patent(s) to be issued for the invention in the U.S. and in any foreign country; (b) sign all documents, testify in any legal proceeding or patent office proceeding, and make any required oath or declaration, to aid in causing all right, title, and interest to all such patent(s) to be issued to the ASSIGNEE; and (c) generally do everything possible to aid the ASSIGNEE and its successors and assigns in obtaining and enforcing its entire right, title, and interest assigned by this Assignment in the U.S. and in any foreign country.

Assignor authorizes the ASSIGNEE or its representatives to insert on this Assignment any identification, including the application number and filing date, to comply with rules of the USPTO and any foreign patent office for recordation of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this assignment below.

DECLARATION

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

This Declaration is directed to the above-identified application. 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 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.

DATE: 03/21/2022

SIGNATURE: /Liuwen HUANG/
Liuwen HUANG