## 505282327 01/16/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
YU-CHEN SUN	12/29/2018
JIAN LOU	12/28/2018

### **RECEIVING PARTY DATA**

Name:	ALIBABA GROUP HOLDING LIMITED	
Street Address:	FOURTH FLOOR, ONE CAPITAL PLACE	
Internal Address:	P. O. BOX 847	
City:	GRAND CAYMAN	
State/Country:	CAYMAN ISLANDS	

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

Property Type	Number		
Application Number:	16237281		

### **CORRESPONDENCE DATA**

**Fax Number:** (509)323-8979

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 5093249256

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ATTORNEY DOCKET NUMBER:	AB1-0739US
NAME OF SUBMITTER:	CHERRI A. SIMON
SIGNATURE:	/Cherri A. Simon/
DATE SIGNED:	01/16/2019

**Total Attachments: 6** 

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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Filing Date	. ,
Assignee	Sun et alAlibaba Group Holding Limited
Attornev's Docket No.	Anbaba Group Floiding Ennited AB1-0739US
Client Docket No.	A19744US
Title:	BASED ON CODING UNIT CHARACTERISTICS
PATEN	T ASSIGNMENT
PARTIES TO THE ASSIGNMENT	
Assignor(s):	
Yu-Chen Sun	
c/o Alibaba Group Legal Department	
5/F, Building 3, No.969 West Wen Yi Road,	
Yu Hang District, Hangzhou, China. 311121	
Jian Lou	
c/o Alibaba Group Legal Department	
5/F, Building 3, No.969 West Wen Yi Road,	
Yu Hang District, Hangzhou, China. 311121	
Alibaba Group Holding Limited Fourth Floor, One Capital Place P.O. Box 847 Grand Cayman Cayman Islands	
AGREEMENT	
WHEREAS, ASSIGNOR(S) (listed al	pove) are inventor(s) of an invention entitled
"BASED ON CODING UNIT CHARACTE	RISTICS" for which:
a provisional application for Uni	ted States Letters Patent was filed onand
was given U.S. Serial Noand/	or
a foreign priority Chinese patent	application was filed onand was given
CN Patent Application Serial No.	and/or
a PCT international application	for was filed on and was given PCT
Serial Noand/or	

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a non-provisional application for United States Letters Patent was:

filed on December 31, 2018 and was given U.S. Serial No. 16/237,281 or filed concurrently herewith. Assignors hereby authorize and request ASSIGNEE's legal representatives, of Lee & Hayes, P.C., 601 W Riverside Ave, Suite 1400, Spokane, Washington 99201, who are associated with customer number 29150, to insert in the caption above the serial number and filing date of the patent application when known.

WHEREAS, Alibaba Group Holding Limited (hereinafter referred to as ASSIGNEE), a corporation of Cayman Islands having a place of business at Fourth Floor, One Capital Place, P.O. Box 847, Grand Cayman, Cayman Islands, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE, ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters

Page 2 of 3

patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

The Chen San Yu-Chen Sun 12/29/20(8 Date (mm/dd/yyyy)	Witness Signature  Ten - Yo Witness Signature  Name (printed)  12/29/2018  Date (mm/dd/yyyy)
Jian Lou Date (mm/dd/yyyy)	Witness Signature  Name (printed)  Date (mm/dd/yyyy)

### IN THE UNITED STATES PATEN, AND TRADEMARK OFFICE

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Filing Date			**********		• • • • • • • • • • • • • • • • • • • •	Sun et al Holding Limited ASI-0739US AI9744US
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Assignee	angeren				Alihaha Group	Holding Limited
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#### PATENT ASSIGNMENT

### PARTIES TO THE ASSIGNMENT

Assignatish Yu-Chen Sun c/e Alibaba Group Legal Department 5/F. Building 3, No. 989 West Wen Yi Road, Yu Hang District, Hangaboa, China. 311121

Jan Lou c/o Alibabs Group Legal Department 5/F, Building 3, No.969 West Wes Yi Boad, Yu Hang District, Hangzhou, China, 311121

designate
Assissive Corony Flooding Limited
Fourth Floor, One Capital Place
P.O. Box 847
Cannel Cayman
Cayman Salamis

### ACKEEMENT

WHEREAS, ASSICNORIS) (listed above) are inventor(s) of an invention entitled.  "BASED ON CODING UNIT CHARACTERISTICS" for which:
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CN Patent Application Serial 26aserd/ca
a PCT international application for was filed on and was given PC
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December 31, 2018 and was given U.5. Serial No. 16/237.281 per filled concurrently hirrorith. Assignment benefity anticorize and request ASECINE's legal representatives of Lee & Hayes, P.C., 601 W Strendig Ave. Suits 1400. Speakage, Washington W301, who are associated with customer number 35150, to invert in the caption above the serial number and filing date of the patent application when known.

WHEREAS, Alitische Group Holding Limited (hereinofter referred to as ARSCNEE), a corporation of Cayman islands having a place of business of Fourth Floor. One Capital Floor, P.O. 802 847, Grand Cayman Islands, is desirous of acquiring the entire right, title sold interest in and to the incomition and to and to any letters patent that may be granted therefore in the United States and in any and all foreign countries.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASHCNOR(S) hereby sell, assign and transfer unto ASSIONEE, the entire right, title and interest in and to said invention, said application and any and all letters patient which may be granted for said invention in the United States of Ansacia and its territorial possessions and in any and all foreign countries, and in any and all divisions, release and continuations thereof, including the right to file foreign applications disortly in the native of ASSIGNEE and to claim priority rights deriving from each United States application to which said invention, application and all letters patient on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNEE, and this assignment, transfer and sale not been made. ASSIGNOSSI hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOSSIS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters

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patent on said in-ention, for hitgation regarding said before patent, or for the purpose of protecting fills to said invention or letters patent therefore.

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Ya-Chen Sur	Witness Signature
Date (ents/dd/yyry)	Name (printed)  Date (mm/dd/yyyy)
Jian Los 12 / 28 / 24 (8) Date (mms/dd/y7yy)	Vitness Signature  LT J. M. A. A. G. Name (printed)  Date (mm/de/yyyy)

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