

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	1
CONVEYING PARTY DATA	
Name	Execution Date
YONG LIU	08/12/2021
LIYU CAI	08/12/2021
RECEIVING PARTY DATA	
Name:	NOKIA SHANGHAI BELL CO., LTD
Street Address:	388 NINGQIAO ROAD
Internal Address:	JIN QIAO EXPORT PROCESSING ZONE, PUDONG NEW AREA
City:	SHANGHAI
State/Country:	CHINA
Postal Code:	201206
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16323396
CORRESPONDENCE DATA	
Fax Number:	(216)363-9001
<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>	
Phone:	216.363.9000
Email:	docketing@faysharpe.com
Correspondent Name:	FAY SHARPE/NOKIA
Address Line 1:	1228 EUCLID AVENUE, 5TH FLOOR
Address Line 2:	THE HALLE BUILDING
Address Line 4:	CLEVELAND, UNITED STATES 44115-1843
ATTORNEY DOCKET NUMBER:	LUTZ 202333US01/819651
NAME OF SUBMITTER:	JOSEPH D. DREHER
SIGNATURE:	/Joseph D. Dreher/
DATE SIGNED:	09/14/2021
Total Attachments: 2	
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ASSIGNMENT - WORLDWIDE

ASSIGNOR(S)

Name	City	Country
Yong Liu	Shanghai	China
Liyu Cai	Shanghai	China

(Full legal name, city and country of each inventor)

ASSIGNEE

**Nokia Shanghai Bell Co., Ltd (formerly Alcatel-Lucent Shanghai Bell Co., Ltd)
388 Ningqiao Road, Jin Qiao Export Processing Zone, Pudong New Area, Shanghai
201206, China**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ASSIGNOR(S) agree to assign and hereby assign, sell, transfer and set over to the ASSIGNEE and its successors, assigns and legal representatives, the entire right, title and interest, for United States of America and for all other countries in and to (1) the invention(s) identified by the following title or application number and filing date, and (2) any and all related inventions ("RELATED INVENTIONS" as defined below).

Application Title: METHOD AND APPARATUS FOR MANAGING RESOURCES IN COMMUNICATION SYSTEM

**Application number: CN 201610657202.2 Filing date: 2016-08-11
(YYYY-MM-DD)**

I/we, the ASSIGNOR(S), hereby authorize and request a representative of the ASSIGNEE to insert the application title, application number and filing date when known/received, after the execution of this document. The ASSIGNOR(S) hereby acknowledge and agree that the ASSIGNEE shall have the right to claim priority, directly or through another patent application, to the application identified above in any and all related patent applications subsequently filed in all jurisdictions.

I/we the ASSIGNOR(S) hereby acknowledge and agree that RELATED INVENTIONS include all national, regional and international patent applications filed and to be filed in any and all jurisdictions, that claim priority to the invention(s) identified by the above title or application number and filing date, said patent applications include all divisionals, continuations, re-issues, re-examinations, and continuations-in-part applications, and RELATED INVENTIONS include all rights and privileges in said patent applications and under any and all letters patent that may be granted in the United States of America and in all other countries resulting from said patent applications.

The ASSIGNOR(S) authorize the ASSIGNEE to make applications for such protection in its own name and maintain such protection in any and all countries including the United States of America, and to invoke and claim for any application for patent or other form of protection for said invention(s), without further authorization from us, any and all benefits, including the rights of priority provided by any and all treaties, conventions, or agreements.

The ASSIGNOR(S) hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of the ASSIGNEE to apply for patent or other form of protection for said invention(s) and to claim the aforesaid benefit of the right of priority.

The ASSIGNOR(S) request that any and all patents for said invention(s) be issued to the ASSIGNEE, its/their successors, assigns and legal representatives, in the United States of America and in all other countries, or to such nominees as the ASSIGNEE may designate.

The ASSIGNOR(S) agree that, when requested, we shall, without charge to the ASSIGNEE sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

The ASSIGNOR(S) and ASSIGNEE agree that this assignment may be executed by either handwritten signatures, including the exchange of scanned representations of handwritten signatures, or e-signatures. By using e-signature to sign this assignment, the ASSIGNOR(S) and ASSIGNEE acknowledge that execution in this manner creates a binding contract between the ASSIGNOR(S) and ASSIGNEE.

Each inventor/assignor please sign and date below:		
Inventor (First Middle Last)	Signature	Date
Yong Liu	<u><i>Yong Liu</i></u> <small>Yong Liu (Aug 12, 2021 09:17 GMT+8)</small>	<u>Aug 12, 2021</u>
Liyu Cai	<u><i>Liyu Cai</i></u> <small>Liyu Cai (Aug 12, 2021 07:19 GMT+8)</small>	<u>Aug 12, 2021</u>

The ASSIGNEE accepts this assignment:	
Name: Edward Zhang	Signature <u><i>Edward Zhang</i></u>
Title: Authorized Signatory	Date <u>Aug 12, 2021</u>