PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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JING XU	12/08/2016
YANG YANG	12/08/2016
HONGLIN HU	12/08/2016

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15376686

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DATE SIGNED:	12/13/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT .1769 REEL: 040717 FRAME: 0377

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Total Attachments: 5 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif

PATENT REEL: 040717 FRAME: 0378

ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION

OR

⊠Declaration Submitted With Initial Declaration
Submitted after initial
Filing (surcharge
(37 CFR 1.16(f))
required)

Attorney Docket Number	
First Named Inventor	YI, Haiyaə
C	OMPLETE IF KNOWN
Application Number	
Filing Date	
Art Unit	
Examiner Name	

UPLINK PILOT SEQUENCE ALLOCATION METHOD IN MASSIVE MIMO SYSTEM AND BASE STATION THEREOF

(Title of the Invention)

As a below named inventor, I hereby declare that:

This assignment and declaration is directed to:

M The attached application

OR

United States Application Number or PCT International application number

filed on (MM/DD/YYYY)

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any wilful 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.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application.

As a below named inventor, I hereby sell, assign and transfer unto to SHANGHAI RESEARCH CENTER FOR WIRELESS COMMUNICATIONS, a corporation of China herein referred to as "Assignee", whose mailing address is 4/F. Building 8, No. 100, Halke Road, Pudong New Area, Shanghai City 2012 10 P. R. China the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Patent, the entire right, title, and interest in and to the same, for the Assignee's sole use and benefit; and for the use and benefit of the Assignee's legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

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ASSIGNMENT AND DECLARATION For Utility or Design Patent Application

LEGAL NAME OF SOLE OR FIRST INVENT	ror:				
Given Name (first and middle (if any)) Huiyue			Family Name or Surname		
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LEGAL NAME OF THIRD INVENTOR:			***************************************		
Given Name (first and middle (if any)) Yang		Family Name or Surname YANG			
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Additional Inventors are being named on the 1	supplemental shee	nt(s) attached	herelo,		

[Page 2 of 3]

PATENT REEL: 040717 FRAME: 0380

ASSIGNMENT AND DECLARATION

ADDITIONAL INVENTOR(S) Supplemental Sheat Page 1 of __1_

***************************************	MAL JOINT INVEN				
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LEGAL NAME OF ADDITIC	NAL JOINT INVEN	tor, if an	Y:		
Given Name (first and midd)	e (if any))	Fa	Family Name or Surname		
Inventor's Signature			Date (Optional)		
Residence: City	esidence: City State		Country		ny
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City State			Zip		Country
LEGAL NAME OF ADDITIO	INAL JOINT INVEN	TOR, IF AN	Υ;		
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Inventor's Signature			Date (Optional)		Optional)
Residence: City State		tate	Cou		гу
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City	State		Zip		Country

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	STATEMENT UNDER 37 CFR 3.73(c)
Applicant/Patent	Owner: SHANGHAI RESEARCH CENTER FOR WIRELESS COMMUNICATIONS
Application No./F	Patent No.: Filed/issue Date:
1.(804)	PILOT SEQUENCE ALLOCATION METHOD IN MASSIVE MIMO SYSTEM AND BASE STATION THEREOF
SHANGHAL RESEARCH	CENTER FOR WIRELESS COMMUNICATIONS , a CORPORATION
(Name of Assignee)	(Type of Assignee, e.g., corporation, partnership, university, government agency, stc.)
states that, for th	e patent application/patent identified above, it is (choose one of options 1, 2, 3 or 4 below):
1. 🗹 The assig	gnee of the entire right, title, and interest.
2. An assign	nee of less than the entire right, title, and interest (check applicable box):
The extending the	stent (by percentage) of its ownership interest is
	are unspecified percentages of ownership. The other parties, including inventors, who together own the entire and interest are:
	mal Statement(s) by the owner(s) holding the balance of the interest <u>must be submitted</u> to account for the entire , and interest.
	pnee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). I including inventors, who together own the entire right, title, and interest are:
	nal Statement(s) by the owner(s) holding the balance of the interest <u>must be submitted</u> to account for the entire, and interest.
	ent, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a of ownership interest was made). The certified document(s) showing the transfer is attached.
The interest ident	ified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose one of options A or B below):
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[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any compense on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Diffeer, U.S. Patent and Trademark.

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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assig [NOT	gnee was, or concu TE: A separate cop	surrently is being, submitt py (i.e., a true copy of the	mentary evidence of the chain of title from the original owner to the ted for recordation pursuant to 37 GFR 3.11. The original assignment document(s)) must be submitted to Assignment record the assignment in the records of the USPTO. See MPEP 302.08
/DANIEL : Signature	SCHATZ/	s supplied below) is auth	horized to act on behalf of the assignee. 2016-12-13 Date 59537
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