

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5476315

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KAZUYA MORIWAKI	02/08/2019
HAILAN PENG	02/25/2019
NORIYUKI HASHIMOTO	02/12/2019
YASUHIRO SUEGARA	02/12/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	KDDI CORPORATION
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<b>Internal Address:</b>	SHINJUKU-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	163-8003
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16295344
<b>CORRESPONDENCE DATA</b>	
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<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>	
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<b>Email:</b>	christine.vieira@thomashorstemeyer.com
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<b>Address Line 1:</b>	3200 WINDY HILL ROAD SE
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<b>Address Line 4:</b>	ATLANTA, GEORGIA 30339
<b>NAME OF SUBMITTER:</b>	MICHAEL J. D'AURELIO
<b>SIGNATURE:</b>	/Michael J. D'Aurelio/
<b>DATE SIGNED:</b>	04/16/2019
<b>Total Attachments: 6</b>	
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**ASSIGNMENT  
OF UTILITY PATENT APPLICATION**

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
MORIWAKI, Kazuya	c/o KDDI Research, Inc., 2-1-15, Ohara, Fujimino-shi, Saitama, 356-8502 Japan
PENG, Hailan	c/o KDDI Research, Inc., 2-1-15, Ohara, Fujimino-shi, Saitama, 356-8502 Japan
HASHIMOTO, Noriyuki	c/o KDDI Research, Inc., 2-1-15, Ohara, Fujimino-shi, Saitama, 356-8502 Japan
SUEGARA, Yasuhiro	c/o KDDI Research, Inc., 2-1-15, Ohara, Fujimino-shi, Saitama, 356-8502 Japan

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

**TERMINAL DEVICE, NETWORK DEVICE, CONTROL METHOD, AND  
COMPUTER READABLE STORAGE MEDIUM**

which was:

- executed on even date herewith,  
 filed with the United States Patent and Trademark Office (USPTO) on \_\_\_\_\_, and assigned Serial No. \_\_\_\_\_, and  
 further described in U.S. Provisional application entitled \_\_\_\_\_, filed with the USPTO on \_\_\_\_\_, and assigned Serial No. \_\_\_\_\_.

*Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.*

WHEREAS, **KDDI CORPORATION**, having a place of business at **3-2, Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo, 163-8003 Japan**, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all

corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents 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 ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

Kazuya Moriwaki  
MORIWAKI, kazuya

Date: Feb 8, 2019

Date: \_\_\_\_\_

\_\_\_\_\_  
Witness:

Date: \_\_\_\_\_

\_\_\_\_\_  
Witness:

P217-0485WOUS / P2016-0259US01

Docket No. \_\_\_\_\_

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(Patent Assignment)

Hailan Peng  
PENG, hailan

Date: 2019. 2. 25

\_\_\_\_\_  
Witness:

Date: \_\_\_\_\_

\_\_\_\_\_  
Witness:

Date: \_\_\_\_\_

*Noriyuki Hashimoto*

\_\_\_\_\_  
HASHIMOTO, Noriyuki

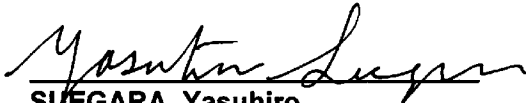
Date: Feb 12nd, 2019

Date: \_\_\_\_\_

\_\_\_\_\_  
Witness:

Date: \_\_\_\_\_

\_\_\_\_\_  
Witness:

  
SUEGARA, Yasuhiro

Date: 12/02/2019

Date: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Witness:

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Witness: