505178474 11/07/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOSHIYUKI HIRAI	07/12/2018
TOKIKO WATANABE	07/12/2018

RECEIVING PARTY DATA

Name:	Canon Kabushiki Kaisha	
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State/Country:	JAPAN	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16042961

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	10186758US01
NAME OF SUBMITTER:	KOZUE TANO
SIGNATURE:	/Kozue Tano/
DATE SIGNED:	11/07/2018

Total Attachments: 2

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PATENT 505178474 REEL: 047443 FRAME: 0155

ASSIGNMENT		
FOR VALUE RECE	IVED, 1/WE	
Yoshiyuki Hi	rai	Tokiko Watanabe
hereby sell, a	ssign, transfer and convey un	to CANON KABUSHIKI KAISHA
a corporation	of Japan	
baving a place	of business at 30-2, Shime	omaruko 3-chome, Ohta-ku, Tokyo, Japan
		nereinafter called the "Assignee"), the entire right, title,
and interest, for all o	countries, in and to certain invention	ons relating to
COMMUNICATIO	ON APPARATUS, CONTROL MET	HOD, AND STORAGE MEDIUM
and described in	an application for Letters Patent	of the United States executed by me/us, and
filed on	as United States Applicat	tion No. or
as PCT International App	•	8
United States which may Patent or other grants o	te granted thereon, and all reissues of protection of proprietary rights i	and continuations thereof, and all Letters Patent of the s and extensions thereof, and all applications for Letters including, but not limited to, inventor's certificate, utility tion of patent and industrial design registration which may be
all reissues, renewals a and Trademarks of the Un	and extensions thereof; and I/we here nited States, and all officials of co issue all such Letters Patent or othe	y countries or regions foreign to the United States, and by authorize and request the Commissioner for Patents xmtries or regions foreign to the United States having er grants of protection upon said inventions to the Assignee
	2 ***	universe to involve and about four year applications
for such Letters Patent priority provided by the	or other grants of protection for se e international Convention for the Pr reeforth be substituted for it, and t	uninees to invoke and claim for any application oud inventions filed by it or them, the benefit of the right of rotection of Industrial Property, as amended, or by a to invoke and claim such right of priority without further
		t shall be deemed a full and formal equivalent of be required in any country or region for any purpose
priority provided by the		e or nominues to claim the aforesaid benefit of the right of rotection of Industrial Property, as amended, or by any

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AND I/we hereby coverant that I/we have the full right to convey the entire right, title and interest herein assignal and that I/we have not executed and will not execute any agreement in conflict herewith.

AND I/we hereby covenant and agree that I/we will communicate to said Assignee or nominees all facts known to me/us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominoes in obtaining, maintaining, and enforcing all lawful patent or other grants of protection of said inventions in any and all countries and regions.

by <u>Johnson Nows</u> Yoshiyuki Hirai	Date: July 12, 2018
By <u>Reike Walunala</u> Tokiko Watanabe	nare: <u>ILY 12, 2018 —</u>
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