## 503679110 02/03/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3725746

SUBMISSION TYPE: NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HIROYUKI MATSUMOTO	12/17/2015
SHUICHI WATANABE	12/17/2015
HISASHI TSUJI	12/17/2015

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

Property Type	Number
Application Number:	15001634

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ATTORNEY DOCKET NUMBER:	P683351-01
NAME OF SUBMITTER:	SHIGERU HONOKI
SIGNATURE:	/Shigeru HONOKI/
DATE SIGNED:	02/03/2016

**Total Attachments: 2** 

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PATENT 503679110 REEL: 037660 FRAME: 0255

		<b>~</b> 1				ignment Form 3.0 (Oct. 2008)
	sonic Ref*: P6833!	<u> 51 - 01 </u>	<del></del>	Application Seri	ial No. <u>/</u>	1001634
Japan	Firm Name:IPSG		<del></del>	Japan Firm Ref	: <u>P</u> 6	683351 <i>- 01</i>
US Fit	rm Name*:GB			US Firm Ref: _		
	.,		ACCION	IBATAIT		
			ASSIGN	NIVIEN I		
WHER Box 1	EAS, the undersigned has (I	nave) invented	the invention entitled:			
	of Invention: ROPHONE ARRAY SYSTEM	AND MICRO	PHONE ARRAY CONTR	ROLL METHOD		
	1. For u	se when signing	Declaration prior to filing U	I.S. patent application (check on	iy one box bel	low)
(a) <b>■</b>	for which an application t	for U.S. pate	nt has been executed	by the undersigned cond	currently he	erewith, or
	or which an application fo					, Or date(s) on which you signed the Declaration)
	or which an International A or PCT-US national entry: check only (c) a	nd enter PCT applic	ation number in the right)	PCT Application No.		and,
		2. For us	e when signing Declaration	after filing U.S. patent application	on	
(d)□ f	or which an application fo	or U.S. paten	t has been filed on:	Application Filing Date		and,
V Japan	VHEREAS, <u>Panasonic Inte</u>	llectual Prop	erty Management Co.,	Ltd. of 1-61, Shiromi 2-cho	me, Chuo-k	u, Osaka-shi, Osaka 540-6207
be legal title and as the legal disclosis thereof priority reissue United all pape for Pro concern and pro title and title and title and T patent(ithe und T issue p and he (have) I attorner further docume T the Unite II the Unite	ally bound hereby, the unders d interest in and to; (i) said in United States) and in all cou ing said invention, including said invention, including in the United States and all coreated by this patent applic is and reexamination certific States and in all countries for the undersigned agree(s) to ers and documents and perfection of Industrial Property ining this application or any adducing evidence and proceed interest in and to said inversional endersigned agree(s) to its to the Assignee(s) to its to the Assignee(s) and to dersigned if this Assignment if the undersigned hereby authority covenants that the undersigned hereby docytes executed by the undersigned hereby agree ent.	signed, by the evention in the intries foreign in the grown provisionals countries foreign to the United States which materian to the United States which materian to the United States which may act way or similar agand all Related eding with such this appnd in support thee(s) may deperform all affit vest all rights had not been in norize(s) and relaters Patent (dersigned has secute, any assigned in connete Assigned in connete (s) that the age (s) that the age of the countries of the countries of the connete (s) that the age of the countries of	se presents, does sell, a United States of Americ to the United States; and, non-provisionals, corgin to the United States; and, non-provisionals, corgin to the United States (by treaty relating theretory be granted therefore, nited States for the full the personal persona	assign and transfer unto said a, its territories, dependencie d (ii) this patent application a wersions, divisions, continu hereinafter designated as "R; and (iii) any and all Letters I and all rights to sue for paserm or terms thereof, ection with this application ar in connection with claims of the cooperate with the Assign and all litigations regarding Related Applications or Letter Assignee(s), and also to exient. The consecution of the cooperate with the Assignee(s) as fully and entitle interest hereigned or encumbrances in confident and for appointing a new patent attorneys and agents comply with the rules of the pply to the undersigned both astrued in accordance with the struet in accordance with the structure in	i Assignee(ses and posses and any and any and antions, confelated Applipatent(s), incet and future and any and a reprovisions in any interfesignee(s) in egg, or for the grey Patent(s) execute separant of a validitiely as the sexclusive a soower of atte the power to a the power to a the power to a the power to a the power of atte a power of atte a power of atte a the power to a the power to a the power of atte a power of atte a power of atte a the power to a the power to a the power of atte a power of a pow	uthority for revoking power of orney in place thereof. o insert on this assignment any it Office for recordation of this and collectively. e appropriate jurisdiction within
	(e) First Name, La	st Name		(f) Signature		(g) Date signed  Month, Date, Year
(1)	Hiroyuki MATSUMO	ото	Hiroyuk	i Matsumote	9-	Dec. 17, 2015
(2)	Shuichi WATANA	ВЕ	- <i>y</i>			Month, Dafe, Year
(3)	Hisashi TSUJI		Hisashi !	Truji		Month, Date, Year  Dec., 17, 20/5  Month, Date, Year

 $\Box$ Check if additional paper(s) is/are attached. Total of  $\underline{\phantom{a}}$  page is submitted.

(4)

Panasonic Ref*:	P683351 -01	Application Serial No. 15/00 1 6 3 4
Japan Firm Name: _	IPSG	Japan Firm Ref:
US Firm Name*: (* must be filled)	GB	US Firm Ref:

## **ASSIGNMENT**

Whicheas, the undersigned has (have) invented the invention entitled:				
Box 1				
Title of Invention:		<u> </u>		
MICROPHONE ARRAY SYSTEM AND MICROPHONE ARRAY CONT	ROLL METHOD			
	NOLE METHOD			
1. For use when signing Declaration prior to filing	U.S. patent application (check on	lly one box below)		
(a)■ for which an application for U.S. patent has been execute	d by the undersigned con-	currently herewith, or		
(b)□ for which an application for U.S. patent has been executed if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if t	on the following date(s):_ the Declaration was signed before this Assi,	, Or gament, enter the date(s) on which you signed the Declaration		
(c) for which an International Application has been filed as:  (for the PCT-US national entry, check only (e) and enter PCT application number in the right)	PCT Application No.	and,		
2. For use when signing Declaration after filing U.S. patent application				
(d)□ for which an application for U.S. patent has been filed on:	Application Filing Date	and,		

WHEREAS, Panasonic Intellectual Property Management Co., Ltd. of 1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 540-6207 Japan

its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States and any foreign patent(s) to the Assignee(s) and to vest all rights hereby conveyed to the Assignee(s) as fully and entirely as the same would have been held by the undersigned if this Assignment had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee(s) and hereby covenants that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

The undersigned hereby does sell, assign and transfer unto said Assignee(s) the full and exclusive authority for revoking power of attorney(s) executed by the undersigned in connection with this application and for appointing a new power of attorney in place thereof. The undersigned hereby grant(s) the Assignee(s) and the appointed U.S. patent attorneys and agents the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent Office for recordation of this document

The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s). (Each Inventor, please Sign and Date below) Box2 (e) First Name, Last Name (g) Date signed (f) Signature Month, Date, Year Hiroyuki MATSUMOTO (1)Month, Date, Year Shrichi Watanabe (2)Shuichi WATANABE Dec. 17. 2015 Month, Date, Year Hisashi TSUJI (3)Month, Date, Year (4)

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□Check if additional paper(s) is/are attached. Total of \_\_\_\_\_ page is submitted.