PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3484871

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KAZUO GODA	05/26/2015
TAKUMI TAURA	05/26/2015
SHINICHI KISHIMOTO	05/26/2015
HIDEKI UEDA	05/26/2015
TAKESHI MORI	05/26/2015

RECEIVING PARTY DATA

Name:	PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.
Street Address:	1-61, SHIROMI 2-CHOME, CHUO-KU, OSAKA-SHI
City:	OSAKA
State/Country:	JAPAN
Postal Code:	540-6207

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14764572

CORRESPONDENCE DATA

Fax Number:

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.

Email: kunou.yoshie@kk.jp.panasonic.com

Correspondent Name: PANASONIC IP MANAGEMENT CO., LTD.

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Address Line 2: 1-61, SHIROMI 2-CHOME, CHUO-KU

Address Line 4: OSAKA, JAPAN 540-6207

ATTORNEY DOCKET NUMBER:	P662474-02
NAME OF SUBMITTER:	CHIKA EDA
SIGNATURE:	/Chika EDA/
DATE SIGNED:	08/16/2015

Total Attachments: 6

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PATENT REEL: 036334 FRAME: 0519

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Panasonic Ref*: _	P662474 = 0 2	Application Serial No. 14/764572
Japan Firm Name:	IPSG	Japan Firm Ref: <u>P662474 ~ () 2</u>
US Firm Name*: _	PPC	US Firm Ref:

ASSIGNMENT

Box 1			
Title of Invention:			
MEMS DEVICE			
1. For use when signing Declaration prior to filing t	J.S. patent application (check on	y one box below)	
(a)□ for which an application for U.S. patent has been executed	by the undersigned conc	urrently herewith, or	
(b) for which an application for U.S. patent has been executed on the following date(s): (if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank, if the Declaration was signed before this Assignment, 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 (c) and enter PCT application number in the right)	PCT Application No.	PCT/JP2014/000547	and,
Os. mo t at a minimum single sines one (sy min other) of approximate minimum in the righty			
2. For use when signing Declaration	n after filing U.S. patent application	n	

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

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 relessues 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 concerning this application or any and all related Applications thereof and to cooperate with the Assigneets) 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

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

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

Box2	(Each Inventor, please Sign and Date b	elow)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Kazuo GODA	Kazuo Goda	Month, Date, Year May, +6-+015
(2)	Takumi TAURA		Month, Date, Year
(3)	Shinichi KISHIMOTO	Shinishi Kishimoto	May. 26, 2015
(4)	Hideki UEDA		Month, Date, Year

■Check if additional paper(s) is/are attached. Total of 2 pages are submitted.

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(21)

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ASSIGNMENT (Cont.)

14/764572 Additional Inventors: Box2 (Continued) (e) First Name, Last Name (f) Signature (g) Date signed Month, Date, Year Takeshi Mori (5) Takeshi MORI May, 26, 2015 (6) Month, Date, Year (7) Month, Date, Year (8) Month, Date, Year (9) Month, Date, Year (10)Month, Date, Year (11) Monto, Date, Year (12)Month, Date, Year (13)Month, Date, Year (14)Month, Date, Year (15)Month, Date, Year (16) Month, Date, Year Month, Date, Year (18)Month, Date, Year (19)

 \Box Check if additional paper(s) is/are attached. Total of $\underline{2}$ pages are submitted.

Month, Date, Year

Month, Date, Year

Month, Date, Year

Assignment Form 3.0 (Oct. 2008)

Panasonic Ref*:	P662474 - 02	Application Serial No. 14/764572
Japan Firm Name: _	IPSG	Japan Firm Ref: <u>P662474</u> – <i>0</i> Z.
US Firm Name*:	PPC	US Firm Ref.

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:			
Box 1	<u>-</u>		
Title of Invention:			
MEMS DEVICE			
1. For use when signing Declaration prior to filing U	J.S. patent application (check on	ly one box below)	
(a)□ for which an application for U.S. patent has been executed	by the undersigned conc	urrently 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 the		gunent, emer the date(s) on which you signed th	, Or Declaration)
(c) for which an International Application has been filed as: (for the PCT-US national entry, check only (c) and enter PCT application number in the right)	PCT Application No.	PCT/JP2014/000547	and,
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(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 oan

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Box2	(Each Inventor, please Sign and Date be	low)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Kazuo GODA		Month, Date, Year
(2)	Takumi TAURA	Takumi Taura	May, 26. 2015
(3)	Shinichi KISHIMOTO		Month, Date, Year
(4)	Hideki UEDA		Month, Date, Year

■Check if additional paper(s) is/are attached. Total of 2 pages are submitted.

Panasonic Ref*:	P662474 - 02-

ASSIGNMENT (Cont.)

Additional Inventors: 14/76 45 7 -

Addit Box2	tional Inventors: (Continued)		14/16 4572
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(5)	Takeshi MORI		Month, Dale, Year
(6)			Month, Date, Year
(7)			Month, Date, Year
(8)			Month, Date, Year
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Japan Firm Name:	IPSG	Japan Firm Ref: <u>P662474</u> - 🗘 2_
US Firm Name*:	PPC	US Firm Ref:

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(3)	Shinichi KISHIMOTO		Month, Date, Year
(4)	Hideki UEDA	Toideki Veda	May . 26. 2015

■Check if additional paper(s) is/are attached. Total of ____ pages are submitted.

Panagania Baffs	P662474	 02.
Panasonic Ref*:	P6624/4	- U -

ASSIGNMENT (Cont.)

14/764572 Additional Inventors: Box2 (Continued) (e) First Name, Last Name (f) Signature (g) Date signed Month, Date, Year Takeshi MORI (5) Month, Date, Year (6) Month, Date, Year (7) Month, Date, Year (8) Month, Date, Year (9) Month, Date, Year (10)Month, Date, Year (11) Month, Date, Year (12) Month, Date, Year (13) Month, Date, Year (14)Month, Date, Year (15)Month, Date, Year (16) Month, Date, Year (17)Month, Date, Year (18)Month, Date, Year (19) Month, Date, Year (20)Month, Date, Year (21) Month, Date, Year (22)

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PATENT REEL: 036334 FRAME: 0526