502126007 11/13/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROSHI URASE	02/27/2012
YASUSHI NAGANO	02/27/2012

RECEIVING PARTY DATA

Name:	Panasonic Corporation	
Street Address:	1006 Oaza Kadoma, Kadoma-shi	
City:	Osaka	
State/Country:	e/Country: JAPAN	
Postal Code: 571-8501		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13426959

CORRESPONDENCE DATA

Fax Number: 2029120774

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2029123800

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Correspondent Name: Panasonic Patent Center

Address Line 1: 1130 Connecticut Ave., N.W., Suite 1100
Address Line 4: Washington, DISTRICT OF COLUMBIA 20036

NAME OF SUBMITTER: Kazuko NAKAGAWA

Total Attachments: 2

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PATENT REEL: 029283 FRAME: 0789 840.00 134

502126007

	Assignment Form 3.0 (Oct. 2008)
	Application Serial No. 18/426959
Panasonic Ref*: P286674-02	Application Serial No. (-7 / - 5 / - 7
Japan Firm Name: Firstlaw P.C.	Japan Firm Ref:
US Firm Name*: BACON & THOMAS (*must be filled)	US Firm Ref:
ASSIGI	NMENT
WHEREAS, the undersigned has (have) invented the invention entitled:	****
Box 1	
Title of Invention: ULTRASONIC SENSOR	
For use when signing Declaration prior to filing to	U.S. patent application (check only one box below)
(a)⊠ for which an application for U.S. patent has been executed	by the undersigned concurrently herewith, or
(b)□ for which an application for U.S. patent has been executed	on the following date(s):, or
(if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if it	he 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. and,
2. For use when signing Declaration	n 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 Corporation of 1006. Oaza Kadoma, Kad	doma-shi, Osaka 571-8501, JAPAN, and
be legally bound hereby, the undersigned, by these presents, does sell, title and interest in and to; (i) said invention in the United States of Amerias the United States) and in all countries foreign to the United States; are disclosing said invention, including provisionals, non-provisionals, contereof in the United States and all countries foreign to the United States priority created by this patent application under any treaty relating thereto reissues and reexamination certificates which may be granted therefore United States and in all countries foreign to the United States for the full. The undersigned agree(s) to execute all papers necessary in contail papers and documents and perform any act which may be necessar for Protection of Industrial Property or similar agreements, all papers concerning this application or any and all Related Applications thereof and producing evidence and proceeding with such interference, and for title and interest in and to said invention, this application and any and all legal proceeding relating thereto and in support thereof, for the benefit with such applications as the Assignee(s) may deem necessary or expert undersigned agree(s) to perform all affirmative acts which may patent(s) to the Assignee(s) and to vest all rights hereby conveyed to the undersigned if this Assignment had not been made. The undersigned hereby authorize(s) and request(s) the Commissisue patents, to issue any and all Letters Patent(s) resulting from said and hereby covenants that the undersigned has (have) full right to confide the proceeding and transfer unto substanting the proceeding transfer unto	ca, its territories, dependencies and possessions (nereinarier designated dil) this patent application and any and all related patent application(s) inversions, divisions, continuations, continuations-in-part and relissues (hereinafter designated as "Related Applications"), along with all rights of c; and (iii) any and all Letters Patent(s), including all renewals, extensions, c, and all rights to sue for past and future infringement thereunder, in the term or terms thereof, in the term or terms thereof, in the inection with this application and any and all Related Applications thereof, by in connection with calms or provisions of the international Convention necessary in connection with any interference which may be declared and to cooperate with the Assignee(s) in every way possible in obtaining any and all litigations regarding, or for the purpose of protecting the right, it Related Applications or Letters Patent(s) therefore, and to testify in any of Assignee(s), and also to execute separate assignments in connection dient. The provided in a grant of a valid United States and any foreign to assignee(s) as fully and entirely as the same would have been held by a signer of Patents, and officials of all foreign countries, whose duty is to application or any and all Related Applications thereof to said Assignee(s) invey the entire interest herein assigned, and that the undersigned has nent or encumbrances in conflict herewith. The ald Assignee(s) the full and exclusive authority for revoking power of ion and for appointing a new power of altorney in place thereof. The patent attorneys and agents the power to insert of this assignment any comply with the rules of the U.S. Patent Office for recordation of this
The undersigned hereby agree(s) that the above congations shall be of the United States.	onstrued 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 be	ow)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Hiroshi URASE	Hiroshi Urace	Feb. 27, 20/2
(2)	Yasushi NAGANO		Month, Date, Year
(3)			Month, Date, Year
(4)			Month, Date, Year

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

Assignment Form 3.0 (Oct. 2008)

Panasonic Ref*: <u>P286674-02</u>	Application Serial No. $18/426959$
Japan Firm Name: <u>Fivstlaw P.C.</u>	Japan Firm Ref:
US Firm Name*: <u>BACON & THOMAS</u>	US Firm Ref:

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:		
Box 1		
Title of Invention:		
ULTRASONIC SENSOR		
1. For use when signing Declaration prior to filing	U.S. patent application (check on	ly one box below)
(a) I for which an application for U.S. patent has been executed	by the undersigned conc	urrently herewith, or
(a) = 10; Whiteh are application to o.e. patent has been executed	,	
(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 i	on the following date(s):_	, or
(b)□ for which an application for U.S. patent has been executed	on the following date(s):_	, 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 it (c)□ for which an International Application has been filed as:	on the following date(s):_ he Declaration was signed before this Assi PCT Application No.	gnment, enter the date(s) an which you signed the Declaration) and,

WHEREAS, Panasonic Corporation of 1006. Oaza Kadoma, Kadoma-shi, Osaka 571-8501, JAPAN, and

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 reexemination 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 illigations 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 the United States.

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 be		
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Hiroshi URASE		Month, Date, Year
(2)	Yasushi NAGANO	Yasushi Nagano	Month, Dale, Year Feb, 27, 2012
(3)		•	Month, Date, Year
(4)			Month, Date, Year

☐Check if additional paper(s) is/are attached. Total of _____ page is submitted.

PATENT REEL: 029283 FRAME: 0791