

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4382336

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WEIJIE LIU	12/08/2016
YOICHI NAKAGAWA	12/08/2016
RECEIVING PARTY DATA	
Name:	PANASONIC CORPORATION
Street Address:	1006, OAZA KADOMA, KADOMA-SHI
City:	OSAKA
State/Country:	JAPAN
Postal Code:	571-8501
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15398315
CORRESPONDENCE DATA	
Fax Number:	
<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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ATTORNEY DOCKET NUMBER:	P0463434US01
NAME OF SUBMITTER:	HIROO MAEDA
SIGNATURE:	/Hiroo MAEDA/
DATE SIGNED:	04/24/2017
Total Attachments: 1	
source=Assignment 15398315(P0463434US01 Seed)#page1.tif	

Panasonic Ref*: P0463434US01

Japan Firm Name: PIPM Direct (R&D)

US Firm Name*: _____

(* must be filled)

Assignment Form (Oct. 2014)
Application Serial No. 15/398315

Japan Firm Ref: P0463434US01

US Firm Ref: _____

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:

Box 1		
Title of Invention: OBJECT DETECTION APPARATUS AND OBJECT DETECTION METHOD		
1. For use when signing Declaration prior to filing 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 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:	PCT Application No.	and
(for the PCT-US national entry, check only (c) and enter PCT application number in the right)		
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 Corporation** of 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, 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).

Box2 (Each Inventor, please Sign and Date below)			
	(e) First Name, Last Name	(f) Signature	(g) Date signed Month, Date, Year
(1)	Weijie LIU	Liu Weijie	Dec. 8, 2016
(2)	Yoichi NAKAGAWA	Yoichi Nakagawa	Dec. 8, 2016
(3)			Month, Date, Year
(4)			Month, Date, Year

☐ Check if additional paper(s) is/are attached. Total of 1 page is submitted.

PATENT**RECORDED: 04/24/2017****REEL: 042132 FRAME: 0616**