502111851 10/31/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Masahiro Mutsuno	07/06/2012

RECEIVING PARTY DATA

Name:	Canon Kabushiki Kaisha	
Street Address:	30-2, Shimomaruko 3-Chome, Ohta-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	146-8501	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13544572

CORRESPONDENCE DATA

Fax Number: 9499323577

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

Phone: +81-3-5732-8698

Email: prj-epas@list.canon.co.jp
Correspondent Name: Canon Kabushiki Kaisha

Address Line 1: 30-2, Shimomaruko 3-Chome, Ohta-ku

Address Line 4: Tokyo, JAPAN 146-8501

ATTORNEY DOCKET NUMBER: 10101255US01

NAME OF SUBMITTER: Mayu Nakajima

Total Attachments: 2

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PATENT REEL: 029214 FRAME: 0176 CH \$40.00 135445

ASSIGNMENT

FOR VALUE PROFIVED 1/WE

1 VX 1/22012 XX10412 X X X V V 2	
Masahiro Mutsuno	
citizens of Japan	
hereby sell, assign, transfer and convey	unto CANON KABUSHIKI KAISHA
a corporation of Japan	
having a place of business at 30-2, Si	nimomaruko 3-chome, Ohta-ku, Tokyo, Japan
its successors, assigns and legal representative	es (hereinafter called the "Assignee"), the entire right, title,

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and interest, for all countries, in and to certain inventions relating to

and described in an application for Letters Patent of the United States executed by me/us, and filed on as United States Application No. or as PCT International Application No.

and in and to said application, and all divisions, renewals and continuations thereof, and all letters Patent of the United States which may be granted thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filled and which may be granted according to the United States, and

filed, and which may be granted, upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and I/we bereby authorize and request the Commissioner for Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority to do so, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as it may designate.

AND I/we authorize and expower the said Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by it or them, the benefit of the right of priority provided by the international Convention for the Protection of Industrial Property, as amended, or by a convention which may benceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me/us.

AND I/we hereby consent that a copy of this assignment shall be deemed a full and formal equivalent of any assignment, consent to file or like document which may be required in any country or region for any purpose and

more particularly in proof of the right of the said Assignee or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

AND I/we hereby coverant that I/we have the full right to convey the entire right, title and interest herein assigned 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 caths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent or other grants of protection of said inventions in any and all countries and regions.

W. Masahiro Mutauro Masahiro Mutsuno	Date:	July 6, 2012
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