PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4040066

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKURO OHMARU	09/02/2016
NAOTO KUSUMOTO	08/29/2016
KENTARO HAYASHI	08/29/2016

RECEIVING PARTY DATA

Name:	Semiconductor Energy Laboratory Co., Ltd.	
Street Address:	398, Hase	
City:	Atsugi-shi, Kanagawa-ken	
State/Country:	JAPAN	
Postal Code:	243-0036	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15230727

CORRESPONDENCE DATA

Fax Number: (703)766-2394

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (571) 434-6789

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Address Line 1: ROBINSON IP LAW OFFICE, P.C.

Address Line 2: 3975 FAIR RIDGE DRIVE, SUITE 20 NORTH

Address Line 4: FAIRFAX, VIRGINIA 22033

ATTORNEY DOCKET NUMBER: 0756-11167

NAME OF SUBMITTER: ERIC J. ROBINSON

SIGNATURE: /Eric J. Robinson/

DATE SIGNED: 09/07/2016

Total Attachments: 4

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PATENT 503993409 REEL: 039656 FRAME: 0378

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ASSIGNMENT

Serial No. 15/230,727

Filed August 8, 2016

WHEREAS, <u>Takuro OHMARU</u>, <u>Naoto KUSUMOTO and Kentaro HAYASHI</u> (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in <u>IMAGING DEVICE</u>, <u>OPERATING METHOD THEREOF</u>, <u>AND ELECTRONIC DEVICE</u> for which an application for Letters Patent of the United States of America has been executed by the undersigned on , and;

WHEREAS, <u>Semiconductor Energy Laboratory Co.</u>, <u>Ltd.</u> of <u>398</u>, <u>Hase</u>, <u>Atsugi-shi</u>, <u>Kanagawa-ken</u>, <u>243-0036 Japan</u> and its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is 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 in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

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

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to

the said Assignee, as Assignee of the entire interest, and hereby convenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of ROBINSON INTELLECTUAL PROPERTY LAW OFFICE 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 and Trademark Office for recordation of this document.

In witness thereof, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 09/02/2016	Signatur	e Jakuza Ohnosu
	Name	Takuro OHMARU
Date	Signatur	Naoto KUSUMOTO
	Name	Naoto KUSUMOTO
Date		re
	Name	Kentaro HAYASHI
Notary Public. If not, the	n the exec	ably be acknowledged before a United States Consul or oution by the Inventor(s) should be witnessed has (have) provements in by at least two other persons who should
Witness		Signature
Witness		Signature
Witness		Signature

ASSIGNMENT

Serial No. <u>15/230,727</u>

Filed August 8, 2016

WHEREAS, <u>Takuro OHMARU</u>, <u>Naoto KUSUMOTO and Kentaro HAYASHI</u>

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in <u>IMAGING DEVICE</u>, <u>OPERATING METHOD THEREOF</u>, <u>AND ELECTRONIC DEVICE</u> for which an application for Letters Patent of the United States of America has been executed by the undersigned on , and;

WHEREAS, <u>Semiconductor Energy Laboratory Co., Ltd.</u> of <u>398</u>, <u>Hase, Atsugi-shi, Kanagawa-ken, 243-0036 Japan</u> and its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is 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 in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America and its territories and for all foreign countries, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America and its territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

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the said Assignee, as Assignee of the entire interest, and hereby convenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

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In witness thereof, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Signature
	Name Takuro OHMARU
Date <u>08/29/2016</u>	Signature Naoto Kusumo To Name Naoto KUSUMOTO
Date 08/29/2016	Signature Kentaro Hayashi Name Kentaro HAYASHI
Notary Public. If not, then	ld preferably be acknowledged before a United States Consul or the execution by the Inventor(s) should be witnessed has (have) aseful improvements in by at least two other persons who should
Witness	Signature
Witness	Signature
Witness	Signature

PATENT REEL: 039656 FRAME: 0383

RECORDED: 09/07/2016