

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
AYA OHMAE	03/29/2016
TAKASHI SUGA	03/16/2016
UMBERTO PAOLETTI	03/29/2016
RECEIVING PARTY DATA	
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City:	CHIYODA-KU, TOKYO
State/Country:	JAPAN
Postal Code:	1008280
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15111288
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NAME OF SUBMITTER:	MICHAEL H. JACOBS
SIGNATURE:	/Michael H. Jacobs/
DATE SIGNED:	07/13/2016
Total Attachments: 2	
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source=69186US_Assignments#page2.tif	

ASSIGNMENT OF APPLICATION

Whereas, I (We),

- 1) Aya OHMAE, a national of Japan,
- 2) Takashi SUGA, a national of Japan,
- 3) Umberto PAOLETTI, a national of Italy,

c/o HITACHI, LTD.,
6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 1008280, Japan

, hereinafter referred to as inventor(s), respectively, have invented certain new and useful improvements in:

"ELECTROMAGNETIC WAVE DETECTION APPARATUS"

(Application No. PCT/JP2014/055219, filed on March 03, 2014)

and

Whereas, Hitachi, Ltd., a corporation organized under the laws of Japan whose mailing address 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan

and its successors, transferees, and assignees (collectively the "Assignee") is (are) desirous of acquiring interests in the entire right, title and interest throughout the world in the subject matter (the "Subject Matter") of the Application:

Now, therefore, in consideration of the sum of One dollar (\$1.00), the receipt whereof is acknowledged, and for other good and valuable consideration, I (we), by these presents do sell, assign and transfer unto said assignee(s), (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

And I (we) hereby agree that I (we) will communicate to the Assignee or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said assignee, make all rightful oaths and declarations, and generally do everything possible to aid said assignee, their successors and assigns, to obtain and enforce proper protection for said invention in every country or region throughout the world.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

Date Signed

1) Aya Ohmae March 29, 2016
Aya OHMAE

2) _____
Takashi SUGA

3) U. Paolotti MARCH 29/2016
Umberto PAOLETTI

ASSIGNMENT OF APPLICATION

Whereas, I (We),

- 1) Aya OHMAE, a national of Japan,
- 2) Takashi SUGA, a national of Japan,
- 3) Umberto FROLETTI, a national of Italy,

c/o HITACHI, LTD.,
6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 1008280, Japan

, hereinafter referred to as inventor(s), respectively, have invented certain new and useful improvements in:

"ELECTROMAGNETIC WAVE DETECTION APPARATUS"
(Application No. ECT/JP2014/055218, filed on March 03, 2014)

; and

Whereas, Hitachi, Ltd., a corporation organized under the laws of Japan whose mailing address 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan

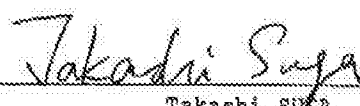
and its successors, transferees, and assignees (collectively the "Assignee") is (are) desirous of acquiring interests in the entire right, title and interest throughout the world in the subject matter (the "Subject Matter") of the Application:

Now, therefore, in consideration of the sum of One dollar (\$1.00), the receipt whereof is acknowledged, and for other good and valuable consideration, I (we), by these presents do sell, assign and transfer unto said assignee(s), (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

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And I (we) hereby agree that I (we) will communicate to the Assignee or their representatives any facts known to me (us) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said assignees, make all rightful oaths and declarations, and generally do everything possible to aid said assignees, their successors and assigns, to obtain and enforce proper protection for said invention in every country or region throughout the world.

Signed on the date(s) indicated aside signatures:

	INVENTOR(S)	Date Signed
1)	<hr/> Aya OHMAE	<hr/>
2)	 <hr/> Takashi SUGA	<u>March 16, 2016</u>
3)	<hr/> Umberto FROLETTI	<hr/>

PATENT