

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yoshitaka UTO</td> <td>12/27/2012</td> </tr> <tr> <td>Akira MIYATAKE</td> <td>12/27/2012</td> </tr> <tr> <td>Toru TAKAHASHI</td> <td>12/27/2012</td> </tr> <tr> <td>Toshihiro KOBAYASHI</td> <td>12/27/2012</td> </tr> <tr> <td>Chiaki KERA</td> <td>12/27/2012</td> </tr> <tr> <td>Hisayuki YAZAWA</td> <td>12/27/2012</td> </tr> <tr> <td>Hisanobu OKAWA</td> <td>12/27/2012</td> </tr> </tbody> </table>		Name	Execution Date	Yoshitaka UTO	12/27/2012	Akira MIYATAKE	12/27/2012	Toru TAKAHASHI	12/27/2012	Toshihiro KOBAYASHI	12/27/2012	Chiaki KERA	12/27/2012	Hisayuki YAZAWA	12/27/2012	Hisanobu OKAWA	12/27/2012
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RECEIVING PARTY DATA																	
Name:	ALPS ELECTRIC CO., LTD.																
Street Address:	1-7 Yukigaya-otsukamachi																
City:	Ota-ku, Tokyo																
State/Country:	JAPAN																
Postal Code:	145-8501																
PROPERTY NUMBERS Total: 1																	
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13744951</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13744951												
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CORRESPONDENCE DATA																	
Fax Number:	2027782201																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
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CH \$40.00 13744951

NAME OF SUBMITTER:

Daniel G. Vivarelli, Jr

Total Attachments: 3

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ASSIGNMENT

WHEREAS, Yoshitaka UTO, Akira MIYATAKE, Toru TAKAHASHI, Toshihiro KOBAYASHI, Chiaki KERA, Hisayuki YAZAWA and Hisanobu OKAWA hereinafter called the "Assignors", have made the invention described in the United States patent application entitled PHYSICAL QUANTITY SENSOR AND METHOD OF MAKING THE SAME

executed by Assignors on the same date as this Assignment;

WHEREAS, ALPS ELECTRIC CO., LTD., a corporation organized and existing under the laws of Japan, having a place of business at 1-7 Yukigaya-otsukamachi, Ota-ku, Tokyo, Japan, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE: December 27, 2012

Yoshitaka Uto

Inventor: Yoshitaka UTO

WITNESSED:

DATE: December 27, 2012

Akira Miyatake

DATE: December 27, 2012

Shuji Ozawa

DATE: December 27, 2012

Akira Miyatake

Inventor: Akira MIYATAKE

WITNESSED:

DATE: December 27, 2012

Toru Takahashi

DATE: December 27, 2012

Shuji Ozawa

DATE: December 27, 2012

Toru Takahashi

Inventor: Toru TAKAHASHI

WITNESSED:

DATE: December 27, 2012

Shuji Ozawa

DATE: December 27, 2012

Shuji Ozawa

DATE: December 27, 2012

Toshihiro Kobayashi

Inventor: Toshihiro KOBAYASHI

WITNESSED:

DATE: December 27, 2012

Chiaki Kera

DATE: December 27, 2012

Shuji Izawa

DATE: December 27, 2012

Chiaki Kera

Inventor: Chiaki KERA

WITNESSED:

DATE: December 27, 2012

Hisayuki Yazawa

DATE: December 27, 2012

Shuji Izawa

DATE: December 27, 2012

Hisayuki Yazawa

Inventor: Hisayuki YAZAWA

WITNESSED:

DATE: December 27, 2012

Hisanobu Okawa

DATE: December 27, 2012

Shuji Izawa

DATE: December 27, 2012

Hisanobu Okawa

Inventor: Hisanobu OKAWA

WITNESSED:

DATE: December 27, 2012

Yoshitaka Ueo

DATE: December 27, 2012

Shuji Izawa