502120832 11/07/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Tadashi Sano	10/16/2012	

RECEIVING PARTY DATA

Name:	Alps Electric Co., Ltd.					
Street Address:	1-7 Yukigaya-otsukamachi, Ota-Ku					
City:	Tokyo					
State/Country:	JAPAN					

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13670896

CORRESPONDENCE DATA

Fax Number: 3123214299

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

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Address Line 4: Chicago, ILLINOIS 10395

ATTORNEY DOCKET NUMBER: 9281-5818

NAME OF SUBMITTER: Gustavo Siller, Jr.

Total Attachments: 3

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> PATENT REEL: 029257 FRAME: 0679

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Client/Matter No. 9281-5818

	RECORDATION FORM COVER SHEET PATENTS ONLY							
	To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below:							
1.	Name of conveying Party(ies):	2.	. Name and Address of receiving Party(ies):					
	TADASHI SANO / OCTOBER 16, 2012		Name: ALPS ELECTRIC CO., LTD.					
			Internal Address:					
			Street Address: 1-7 Yukigaya-otsukamachi, Ota-Ku					
	dditional name(s) of conveying party(ies) attached?		City: Tokyo					
3.	Nature of Conveyance/Execution Date(s): Execution Date(s): October 16, 2012		State:					
			Country: Japan Zip:					
	Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other:		Additional name(s) and addresses attached? ☐ Yes ☑ No					
4.	Application or Patent Number(s).	nent	t is being filed together with a new application.					
A.	Patent Application No.(s):	B.	Patent No.(s):					
Additional numbers attached? ☐ Yes ⊠ No								
5.	Name and address of party to whom correspondence concerning document should be mailed:	6.	. Total no. of applications & patents involved:					
_		7.	Total Fee (37 CFR 1.21(h) & 3.41) \$ 40					
	BRINKS HOFER GILSON & LIONE PO BOX 10395 CHICAGO, IL 60610		 ☐ Authorize charge by credit card ☐ Authorize charge to Deposit Account No. 23-192 ☐ Enclosed ☐ None required (government interest not affecting title) 					
	Phone: (312) 321-4200	8. Payment Information:						
	Fax: (312) 321-4299	a.	Credit Card: Last 4 Numbers Expiration Date					
		b.	Charge fee and/or any Deficiencies to Deposit Account Number 23-1925 Authorized User Name: Brinks Hofer Gilson & Lione					
9.	Signature: /Gustavo Siller, Jr./		November 07, 2012					
	Signature		Date					
	Gustavo Siller, Jr.		Total no. of pages including coversheet, attachments and documents: 3					

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, PO Box 1450, Alexandria, VA 22313-1450

PATENT REEL: 029257 FRAME: 0680

ASSIGNMENT

WHEREAS,		Tadashi SANO					hereinafter called the			
"Assignor",										
application entitled										
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oversted by			***************************************		***************************************	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	*****************	(************************************		······································

executed by Assignor 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 Assignor from the Assignee is hereby acknowledged, the Assignor 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 Assignor hereby covenant and agree, for both the Assignor and the Assignor's legal representatives, that the Assignor 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 Assignor 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.

> **PATENT REEL: 029257 FRAME: 0681**

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 Assignor has executed this agreement.

DATE: October 16, 2012

Jadashi Sano

WITNESSED:

DATE: October 16, 2012

October 16, 2012

PATENT REEL: 029257 FRAME: 0682

RECORDED: 11/07/2012