

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4862434

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HIROSHI SAITO	02/19/2018
KAZUAKI SANO	02/15/2018
TAKAHIRO KASHIUCHI	02/22/2018
AKIHIKO SUZUKI	02/19/2018
TAKAHIRO KURATOMI	02/19/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ABLIC INC.
<b>Street Address:</b>	8, NAKASE 1-CHOME, MIHAMA-KU
<b>City:</b>	CHIBA-SHI, CHIBA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	261-8507
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15918362
<b>CORRESPONDENCE DATA</b>	
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<b>Phone:</b>	312-321-4200
<b>Email:</b>	khinokawa@brinksgilson.com, usassignments@brinksgilson.com
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<b>Address Line 1:</b>	P.O. BOX 10395
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60610
<b>ATTORNEY DOCKET NUMBER:</b>	11106/1041
<b>NAME OF SUBMITTER:</b>	TADASHI HORIE
<b>SIGNATURE:</b>	/Tadashi Horie/
<b>DATE SIGNED:</b>	03/12/2018
<b>Total Attachments: 2</b>	
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Case No. 11106/1041  
Client Ref. No. 2016-0002 (US)

### ASSIGNMENT

WHEREAS, Hiroshi SAITO, Kazuaki SANO, Takahiro KASHIUCHI, Akihiko SUZUKI, and Takahiro KURATOMI, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled CHARGE AND DISCHARGE CONTROL CIRCUIT AND BATTERY DEVICE, executed by Assignors on the same date as, or on a date prior to, this Assignment;

WHEREAS, ABLIC Inc., a corporation organized and existing under the laws of Japan, having a place of business at 8, Nakase 1-chome, Mihama-ku, Chiba-shi, Chiba, Japan 261-8507, 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: Feb. 19, 2018 Hiroshi Saito  
Hiroshi SAITO

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: Feb. 15, 2018 Kazuaki Sano  
Kazuaki SANO

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: Feb. 22, 2018 Takahiro Kashiuchi  
Takahiro KASHIUCHI

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: Feb. 19, 2018 Akihiko Suzuki  
Akihiko SUZUKI

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: Feb. 19, 2018 Takahiro Kuratomi  
Takahiro KURATOMI

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_