

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	MAKOTO SAKAGUCHI	05/23/2017
	NOZOMI ASANO	05/23/2017
RECEIVING PARTY DATA		
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State/Country:	JAPAN	
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PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15537978
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NAME OF SUBMITTER:	PATRICK G. BURNS	
SIGNATURE:	/Patrick G. Burns/	
DATE SIGNED:	06/20/2017	
Total Attachments: 2		
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source=Assignment#page2.tif		

GREER, BURNS & CRAIN, LTD.
300 SOUTH WACKER DRIVE
SUITE 2500
CHICAGO, ILLINOIS 60606

**Declaration and Assignment for Utility or
Design Patent Application**

The title of this invention is:

EXTERNALLY-ATTACHED PTC ELEMENT AND TUBULAR BATTERY

I. Declaration

As a below named inventor, I/we hereby declare that this declaration is directed to:

() the attached application,

OR

(X) United States application or PCT international application
number PCT/JP2015/082796 filed on 11/20/2015
and was amended on (MM/DD/YYYY) _____
(if applicable).

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

II. Assignment

(X) Check this box to assign this invention.

FOR VALUE RECEIVED, the receipt of which is hereby acknowledged, the below named inventor or inventors (hereinafter called "ASSIGNOR") hereby assigns, transfers, and sets over to:

FDK CORPORATION, 1-6-41 Konan, Minato-ku, Tokyo 108-8212 Japan

(hereinafter called "ASSIGNEE"), the full and exclusive right, title, and interest in and to the above-named invention and all rights privileges under any Letters Patent that may be granted thereon, including all rights, if any, to sue for past infringement.

ASSIGNOR also assigns all rights, titles, and interests in and to said invention in all foreign countries, and all applications for Patent which may evolve therefrom, including the right to claim International Convention priority.

The ASSIGNOR agrees without charge to said ASSIGNEE but at its expense (a) to execute (i) all necessary papers to be used in connection with the above-identified application and any additional, continuing, or divisional applications, as the ASSIGNEE may deem necessary or expedient, (ii) all papers in connection with any other legal or quasi-legal proceedings relating to the above-identified application or any additional, continuing, or divisional application thereof; (b) to cooperate with ASSIGNEE in every way possible in obtaining evidence and going forward in any such proceedings; and (c) to perform all other affirmative acts which may be necessary or desirable to obtain a grant of a valid patent.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any and all Letters Patent that may be granted upon the above-identified application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

ASSIGNOR hereby covenants and warrants that he or she has full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

I. Inventor Signatures

Name:	Makoto SAKAGUCHI
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Signature:	<i>Makoto Sakaguchi</i>
Date:	<i>May 23, 2017</i>

Name:	Nozomi ASANO
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Signature:	<i>Nozomi Asano</i>
Date:	<i>May 23, 2017</i>