## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5693174

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ABL PATENT SECURITY AGREEMENT	
SEQUENCE:	2	

### **CONVEYING PARTY DATA**

Name	Execution Date
JOHNSON CONTROLS ADVANCED POWER SOLUTIONS, LLC	08/27/2019

## **RECEIVING PARTY DATA**

Name:	CITIBANK N.A., AS COLLATERAL AGENT		
Street Address:	388 GREENWICH STREET		
Internal Address:	7TH FLOOR		
City:	NEW YORK		
State/Country:	NEW YORK		
Postal Code:	10013		

## **PROPERTY NUMBERS Total: 36**

Property Type	Number
Patent Number:	9331318
Patent Number:	8263246
Patent Number:	8679678
Patent Number:	9496557
Patent Number:	8535825
Patent Number:	8568915
Patent Number:	8999538
Patent Number:	9172067
Patent Number:	8114540
Patent Number:	8969756
Patent Number:	8354186
Patent Number:	9620827
Patent Number:	8609278
Patent Number:	8426059
Patent Number:	8603660
Patent Number:	9225045
Patent Number:	9209483
Patent Number:	9577231

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Property Type	Number
Patent Number:	9774020
Patent Number:	8945740
Patent Number:	8874298
Patent Number:	9331314
Patent Number:	9350002
Patent Number:	7951477
Patent Number:	8530069
Patent Number:	8609268
Patent Number:	9941554
Patent Number:	8788225
Patent Number:	9105902
Patent Number:	9911953
Patent Number:	9276295
Patent Number:	8313855
Patent Number:	8541130
Patent Number:	8466691
Application Number:	14065172
Application Number:	15714930

#### CORRESPONDENCE DATA

Fax Number: (212)751-4864

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 212-906-1216

Email: angela.amaru@lw.com

LATHAM & WATKINS LLP C/O ANGELA M. AMARU **Correspondent Name:** 

885 THIRD AVENUE Address Line 1:

Address Line 4: NEW YORK, NEW YORK 10022

ATTORNEY DOCKET NUMBER:	049133-0321
NAME OF SUBMITTER:	ANGELA M. AMARU
SIGNATURE:	/s/ Angela M. Amaru
DATE SIGNED:	08/29/2019

#### **Total Attachments: 7**

source=Panther - Patent Security Agreement (ABL) - Johnson Controls Advanced Power Solutionspdf#page1.tif source=Panther - Patent Security Agreement (ABL) - Johnson Controls Advanced Power Solutionspdf#page2.tif source=Panther - Patent Security Agreement (ABL) - Johnson Controls Advanced Power Solutionspdf#page3.tif source=Panther - Patent Security Agreement (ABL) - Johnson Controls Advanced Power Solutionspdf#page4.tif source=Panther - Patent Security Agreement (ABL) - Johnson Controls Advanced Power Solutionspdf#page5.tif source=Panther - Patent Security Agreement (ABL) - Johnson Controls Advanced Power Solutionspdf#page6.tif source=Panther - Patent Security Agreement (ABL) - Johnson Controls Advanced Power Solutionspdf#page7.tif

> **PATENT** REEL: 050217 FRAME: 0416

ABL PATENT SECURITY AGREEMENT dated as of August 27, 2019 (this "<u>Agreement</u>"), among JOHNSON CONTROLS ADVANCED POWER SOLUTIONS, LLC (the "<u>Grantor</u>") and CITIBANK, N.A., as Collateral Agent (in such capacity, the "<u>Collateral Agent</u>").

Reference is made to the ABL Collateral Agreement dated as of April 30, 2019 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Collateral Agreement"), among the Grantor, the other grantors from time to time party thereto and the Collateral Agent, pursuant to which the Grantor granted to the Collateral Agent, for the benefit of the Secured Parties, a security interest in the Patent Collateral (as defined herein). Pursuant to the Collateral Agreement, the Grantor agreed to execute and deliver this Agreement in order to record the security interest granted to the Collateral Agent with the USPTO. Accordingly, the parties hereto agree as follows:

SECTION 1. <u>Terms</u>. Capitalized terms used in this Agreement and not otherwise defined herein have the meanings specified (including specified by referenced) in the Collateral Agreement. The rules of construction specified in <u>Section 1.01(b)</u> of the Collateral Agreement also apply to this Agreement.

SECTION 2. Grant of Security Interest. As security for the payment or performance, as the case may be, in full of the Secured Obligations, the Grantor hereby grants to the Collateral Agent, its successors and assigns, for the benefit of the Secured Parties, a security interest (the "Security Interest") in all of such Grantor's right, title and interest in, to and under the United States issued Patents and Patent applications listed on Schedule I attached hereto, together with (a) all reissues, reexaminations, continuations, divisionals, continuations-in-part, renewals or extensions thereof, (b) the right to sue or otherwise recover for any past, present and future infringement, or other violation or impairment thereof, and (c) all Proceeds of the foregoing, including without limitation license fees, royalties, income, payments, claims, damages and proceeds of suit, now or hereafter due and/or payable with respect thereto (the "Patent Collateral"). This Agreement is not to be construed as an assignment of any Patent Collateral.

SECTION 3. Collateral Agreement. The Security Interest granted to the Collateral Agent herein is granted in furtherance, and not in limitation, of the security interest granted to the Collateral Agent pursuant to the Collateral Agreement. The Grantor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the Patent Collateral are more fully set forth in the Collateral Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Collateral Agreement, the terms of the Collateral Agreement shall govern.

SECTION 4. <u>Termination</u>. Upon the occurrence of the Termination Date or the release of the Grantor from its obligations under the Collateral Agreement pursuant to <u>Section 5.13</u> of the Collateral Agreement, the security interest granted herein shall automatically terminate and the Collateral Agent shall execute, acknowledge, and deliver to the Grantor an instrument in writing in recordable form releasing the collateral pledge, grant, assignment, lien, and security interest in the Patent Collateral under this Agreement.

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SECTION 5. <u>Counterparts</u>. This Agreement may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original but all of which when taken together shall constitute a single contract. Delivery of an executed signature page to this Agreement by facsimile or other electronic transmission shall be effective as delivery of a manually signed counterpart of this Agreement.

SECTION 6. Governing Law. This Agreement shall be construed in accordance with and governed by the law of the State of New York.

SECTION 7. <u>Recordation</u>. The Grantor authorizes and requests that the Commissioner for Patents record this ABL Patent Security Agreement with the U.S. Patent and Trademark Office.

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PATENT REEL: 050217 FRAME: 0418 IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the date first above written.

By:

JOHNSON CONTROLS ADVANCED POWER SOLUTIONS, LLC, as Grantor

Name: Joseph A. Walicki

Title: Manager

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CITIBANK, N.A., as Collateral Agent

By: Name: Christopher Navad Title: Grector & Well Wesdent

SIGNATURE PAGE TO ABL PATENT SECURITY AGREEMENT

# Schedule I to the ABL Patent Security Agreement

## PATENT COLLATERAL

## 1. U.S. PATENT REGISTRATIONS

Company / Owner	Registered Patent	Serial/Registration Number	Filing Date	Registration Date
Johnson Controls Advanced Power Solutions, LLC	Battery Module	9331318	07/01/2009	05/03/2016
Johnson Controls Advanced Power Solutions, LLC	Current Collector for an Electrochemical Cell	8263246	11/20/2009	09/11/2012
Johnson Controls Advanced Power Solutions, LLC	Current Collector for an Electrochemical Cell	8679678	08/09/2012	03/25/2014
Johnson Controls Advanced Power Solutions, LLC	Current Collector for an Electrochemical Cell	9496557	02/17/2014	10/26/2016
Johnson Controls Advanced Power Solutions, LLC	Mandrel with Drive Member for Electrochemical Cells	8535825	11/30/2010	09/17/2013
Johnson Controls Advanced Power Solutions, LLC	Battery with Integrally Formed Terminal	8568915	02/10/2009	10/29/2013
Johnson Controls Advanced Power Solutions, LLC	Battery Module with Sealed Vent Chamber	8999538	02/09/2011	04/07/2015
Johnson Controls Advanced Power Solutions, LLC	Battery Cell and Terminal Configuration	9172067	07/02/2009	10/27/2015
Johnson Controls Advanced Power Solutions, LLC	Buss Bar for Batteries	8114540	08/07/2009	02/14/2012
Johnson Controls Advanced Power Solutions, LLC	Laser Cutting System	8969756	12/14/2009	03/03/2015
Johnson Controls Advanced Power Solutions, LLC	Interconnection Washer Assembly for a Battery Assembly	8354186	03/07/2011	01/15/2013
Johnson Controls Advanced Power Solutions, LLC	Thermal Management System for a Battery System	9620827	06/13/2011	04/11/2017
Johnson Controls Advanced Power Solutions, LLC	Battery Cell	8609278	03/07/2011	12/17/2013
Johnson Controls Advanced Power Solutions, LLC	Electrochemical Cell Having an Electrically- Insulated Housing	8426059	04/05/2011	04/23/2013
Johnson Controls Advanced Power Solutions, LLC	Battery System with Heat Exchanger	8603660	04/14/2011	12/10/2013

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Company / Owner	Registered Patent	Serial/Registration	Filing Date	Registration Date
Company / Owner	Registered ratem	Number		Registration Date
Johnson Controls	Battery System with Heat	9225045	12/09/2013	12/29/2015
Advanced Power	Exchanger	3220010	12/03/2015	
Solutions, LLC				
Johnson Controls	Lithium Ion Battery	9209483	11/18/2011	12/08/2015
Advanced Power	Module			
Solutions, LLC				
Johnson Controls	Lithium Ion Battery	9577231	11/02/2015	02/21/2017
Advanced Power	Module			
Solutions, LLC				
Johnson Controls	Lithium Ion Battery	9774020	02/19/2016	09/26/2017
Advanced Power	Module			
Solutions, LLC				
Johnson Controls	Vent for Electrochemical	8945740	10/10/2011	02/03/2015
Advanced Power	Cell			
Solutions, LLC				
Johnson Controls	Battery Power Source	8874298	06/21/2011	10/28/2014
Advanced Power	Device			
Solutions, LLC				
Johnson Controls	Battery Module Having	9331314	01/22/2010	05/03/2016
Advanced Power	Electrochemical Cells			
Solutions, LLC	with Integrally Formed			
	Terminals			
Johnson Controls	Thermal Management of	9350002	06/30/2011	05/24/2016
Advanced Power	a Battery System			
Solutions, LLC			0.510.01=0.00	
Johnson Controls	Battery Module	7951477	06/09/2009	05/31/2011
Advanced Power				
Solutions, LLC	D. W. M. L.I.	0520060	05/12/2011	00/10/2012
Johnson Controls Advanced Power	Battery Module	8530069	05/12/2011	09/10/2013
Solutions, LLC Johnson Controls	Dettery Medule Hering e	8609268	12/16/2011	12/17/2013
Advanced Power	Battery Module Having a Cell Tray with Thermal	8009208	12/10/2011	12/17/2015
Solutions, LLC	Management Features			
Johnson Controls	Battery Module Having a	9941554	12/16/2013	04/10/2018
Advanced Power	Cell Tray with Thermal	7771337	12/10/2013	0-7/10/2010
Solutions, LLC	Management Features			
Johnson Controls	Cell Diagnostic System	8788225	12/16/2010	07/22/2014
Advanced Power	and Method	0700223	12/10/2010	0112212014
Solutions, LLC	and Welliot			
Johnson Controls	Device for Aiding in the	9105902	06/13/2011	08/11/2015
Advanced Power	Fracture of a Vent of an			
Solutions, LLC	Electrochemical Cell			
Johnson Controls	Device for Aiding in the	9911953	07/31/2015	03/06/2018
Advanced Power	Fracture of a Vent of an			
Solutions, LLC	Electrochemical Cell			
Johnson Controls	Storage Battery	9276295	01/29/2010	03/01/2016
Advanced Power	Arrangement			
Solutions, LLC				
Johnson Controls	Interconnection Washer	8313855	09/08/2009	11/20/2012
Advanced Power	Assembly for a Battery			
Solutions, LLC	Assembly			

Company / Owner	Registered Patent	Serial/Registration Number	Filing Date	Registration Date
Johnson Controls	Interconnectors for a	8541130	11/16/2012	09/24/2013
Advanced Power	Battery Assembly			
Solutions, LLC				
Johnson Controls	Determination of	8466691	12/08/2010	06/18/2013
Advanced Power	Insulation Resistance of			
Solutions, LLC	an Electric DC Circuit			

## 2. U.S. PATENT APPLICATIONS

Company / Owner	Patent Application	Application Number	Application Date
Johnson Controls Advanced Power	System For Arranging	14/065,172	10/28/2013
Solutions, LLC	And Coupling Battery Cells In A Battery		
	Cells In A Battery		
	Module		
Johnson Controls Advanced Power	Lithium Ion Battery	15/714,930	09/25/2017
Solutions, LLC	Module		

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**RECORDED: 08/29/2019**