504495958 08/09/2017 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4542661

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		SECURITY AGREEMENT			
CONVEYING PARTY D	ΑΤΑ				
		Name	Execution Date		
SMART MODULAR TE	CHNOLOG	ES, INC.	08/09/2017		
RECEIVING PARTY DA	TA				
Name:	BARCLAYS BANK PLC, AS ADMINISTRATIVE AGENT				
Street Address:	745 SEV	ENTH AVENUE			
City:	NEW YO	RK			
State/Country:	NEW YO	RK			
Postal Code:	10019				
	Totol: 17				
PROPERTY NUMBERS		Number	7		
Application Number:	14	077908	-		
Application Number:		6462885	-		
Application Number:		3940118	-		
Application Number:		994065	-		
Application Number:		884369	_		
Application Number:		231622	-		
Application Number:	15	055448	_		
PCT Number:		S1718762	1		
Application Number:		5066728	-		
Application Number:	15	5076433	1		
PCT Number:	U	S1722608	1		
Application Number:	15	5141757	1		
PCT Number:	U	S1729001	1		
Application Number:	15	273385	1		
Application Number:	15	285305	1		
Application Number:	15	294678	7		
		5388704			

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent PATENT

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.						
Phone: 800-713-0755						
Email:	Michael.Violet@wolterskluwer.com					
Correspondent Name:	MICHAEL VIOLET					
	4400 EASTON COMMONS WAY					
Address Line 2: SUITE 125						
Address Line 4: C	COLUMBUS, OHIO 43219					
NAME OF SUBMITTER:	ELAINE CARRERA					
SIGNATURE:	/Elaine Carrera/					
DATE SIGNED:	08/09/2017					
Total Attachments: 5						
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Form PTO-1595 (Rev. 03-11) OMB No. 0651-0027 (exp. 04/30/2015)

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U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY								
	se record the attached documents or the new address(es) below.							
1. Name of conveying party(ies) SMART Modular Technologies, Inc.	2. Name and address of receiving party(ies) Name: Barclays Bank PLC, as Administrative Agent Internal Address:							
Additional name(s) of conveying party(ies) attached? Yes No. 3. Nature of conveyance/Execution Date(s): Execution Date(s) August 9, 2017 Assignment Merger Security Agreement Change of Name Joint Research Agreement								
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: USA Zip: 10019							
	Additional name(s) & address(es) attached? Yes X No document is being filed together with a new application. B. Patent No.(s) See Schedule I							
Additional numbers at	tached? Xes No							
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 17							
Name: <u>Elaine Carrera, Legal Assistant</u>	7. Total fee (37 CFR 1.21(h) & 3.41) \$							
Street Address: <u>c/o Cahill Gordon & Reindel LLP</u>	 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 							
City: New York	8. Payment Information							
State: NY Zip:10005 Phone Number: (212) 701-3365 Docket Number: Email Address: ecarrera@cahill.com	Deposit Account Number							
9. Signature: Elaine Can	August 9, 2015							
Signature Elaine Carrera Name of Person Signing Documents to be recorded (including cover sheet Mail Stop Assignment Recordation Services, Director of	Date Total number of pages including cover sheet, attachments, and documents:) should be faxed to (571) 273-0140, or mailed to: f the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450							
	PATENT REEL: 043495 FRAME: 0399							

PATENT SECURITY AGREEMENT dated as of August 9, 2017 (this "<u>Agreement</u>"), among Smart Modular Technologies, Inc. (the "<u>Grantor</u>") and Barclays Bank PLC, as administrative agent (in such capacity, the "<u>Administrative Agent</u>").

Reference is made to (a) the Second Amended and Restated Credit Agreement dated as of August 9, 2017 (as amended, supplemented or otherwise modified from time to time, the "<u>Credit</u> <u>Agreement</u>"), among SMART Worldwide Holdings, Inc., a Cayman Islands exempted company ("<u>Holdings</u>"), SMART Modular Technologies (Global), Inc., a Cayman Islands exempted company (the "<u>Parent Borrower</u>"), SMART Modular Technologies, Inc., a California corporation (the "<u>Co-Borrower</u>" and together with the Parent Borrower, the "<u>Borrowers</u>" and each a "<u>Borrower</u>"), the lenders from time to time party thereto (the "<u>Lenders</u>") and the Administrative Agent and (b) the Collateral Agreement dated as of August 26, 2011 (as amended, supplemented or otherwise modified from time to time, the "<u>Collateral Agreement</u>"), among the Co-Borrower, the other grantors from time to time party thereto and the Administrative Agent. The Lenders and the Issuing Banks have agreed to extend credit to the Borrowers subject to the terms and conditions set forth in the Credit Agreement. The Grantor is an Affiliate of the Borrowers and is willing to execute and deliver this Agreement in order to induce the Lenders to make additional Loans and the Issuing Banks to issue additional Letters of Credit and as consideration for Loans previously made and Letters of Credit previously issued. 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 in the Collateral Agreement or the Credit Agreement, as applicable. The rules of construction specified in Section 1.01(b) of the Collateral Agreement also apply to this Agreement.

SECTION 2. <u>Grant of Security Interest</u>. As security for the payment or performance, as the case may be, in full of the Secured Obligations, the Grantor hereby grants to the Administrative Agent, its successors and assigns, for the benefit of the Secured Parties, a security interest (the "<u>Security Interest</u>") in all of such Grantor's right, title and interest in, to and under any Patents now owned or at any time hereafter acquired by such Grantor, including those listed on Schedule I (the "<u>Patent Collateral</u>").

SECTION 3. <u>Collateral Agreement</u>. The Security Interest granted to the Administrative Agent herein is granted in furtherance, and not in limitation, of the security interests granted to the Administrative Agent pursuant to the Collateral Agreement. The Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative 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>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.

[Remainder of this page intentionally left blank]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

SMART MODULAR TECHNOLOGIES, INC.

er fan ster Ð By: ___

Name: Bruce Goldberg Title: Vice President, Chief Legal Officer, Chief Compliance Officer and Secretary

SIGNATURE PAGE TO PATENT SECURITY AGREEMENT

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BARCLAYS BANK PLC, as Administrative Agent

By:____ Name: Churs Walters Title: Diredi

SIGNATURE PAGE TO PATENT SECURITY AGREEMENT

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Schedule I

			Serial No.	Patent No.	
	Owner	Patent Title	Filing Date	Issue Date	Status
1.	SMART Modular	Integrated circuit device system with elevated	14/077,908	9,603,252	Issued
	Technologies, Inc.	configuration and method of manufacture thereof	11/12/2013	03/21/2017	
2.	SMART Modular Technologies, Inc.	Integrated circuit device system with elevated configuration and method of manufacture thereof	15/462,885	N/A	Pending
3.	SMART Modular Technologies, Inc.	Computing system with backup and recovery mechanism and method of operation thereof	13/940,118	N/A	Pending
4.	SMART Modular Technologies, Inc.	Memory management system with backup system and method of operation thereof	14/994,065 01/12/2016		Pending
5.	SMART Modular Technologies, Inc.	Memory module with power management system and method of operation thereof	14/884,369 10/15/2015	9,576,615 02/21/2017	Issued
6.	SMART Modular Technologies, Inc.	Integrated circuit device system with elevated stacked configuration and method of manufacture thereof	14/231,622 03/31/2014	9,648,754 05/09/2017	Issued
7.	SMART Modular Technologies, Inc.	Memory management system with multiple boot devices and method of operation thereof	15/055,448	N/A	Pending
8.	SMART Modular Technologies, Inc.	Memory management system with multiple boot devices and method of operation thereof	PCT/US17/ 18762	N/A	Pending
9.	SMART Modular Technologies, Inc.	Memory module repair system with failing component detection and method of operation thereof	15/066,728	N/A	Pending
10.	SMART Modular Technologies, Inc.	Solid state storage system with latency management mechanism and method of operation thereof	15/076,433	N/A	Pending
11.	SMART Modular Technologies, Inc.	Solid state storage system with latency management mechanism and method of operation thereof	PCT/US17/ 22608	N/A	Pending
12.	SMART Modular Technologies, Inc.	Interconnected memory system and method of operation thereof	15/141,757	N/A	Pending
13.	SMART Modular Technologies, Inc.	Interconnected memory system and method of operation thereof	PCT/US17/ 29001	N/A	Pending
14.	SMART Modular Technologies, Inc.	High density memory module system	15/273,385	N/A	Pending
15.	SMART Modular Technologies, Inc.	Memory controller for high latency memory devices	15/285,305	N/A	Pending
16.	SMART Modular Technologies, Inc.	Flash-based block storage system with trimmed space management and methof of operation thereof	15/294,678	N/A	Pending
17.	SMART Modular Technologies, Inc.	Virtual timer for data retention	15/388,704	N/A	Pending