

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
ROHM POWERVATION LIMITED		07/07/2020
RECEIVING PARTY DATA		
Name:	ROHM CO., LTD.	
Street Address:	21 SAIIN MIZOSAKI-CHO	
Internal Address:	UKYO-KU, KYOTO-SHI	
City:	KYOTO	
State/Country:	JAPAN	
Postal Code:	615-8585	
PROPERTY NUMBERS Total: 29		
Property Type	Number	
Patent Number:	8644962	
Patent Number:	8089256	
Patent Number:	9203302	
Patent Number:	9507356	
Patent Number:	7627032	
Patent Number:	7848406	
Patent Number:	8396111	
Patent Number:	8901903	
Patent Number:	9093986	
Patent Number:	8374008	
Patent Number:	10033267	
Patent Number:	9996126	
Patent Number:	10474210	
Application Number:	16323497	
Patent Number:	10128753	
Patent Number:	9134739	
Patent Number:	9584018	
PCT Number:	WO2008101864	
PCT Number:	WO2010130836	

Property Type	Number
PCT Number:	WO2011101341
PCT Number:	WO2010146068
PCT Number:	WO2010136225
PCT Number:	WO2009010476
PCT Number:	WO2015004077
PCT Number:	WO2012048998
PCT Number:	WO2018024911
PCT Number:	WO2011033004
PCT Number:	WO2015169689
PCT Number:	EP2019067993

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SIGNATURE:	/EdwardABecker#37777/
DATE SIGNED:	07/29/2020

Total Attachments: 4

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ASSIGNMENT

THIS ASSIGNMENT is made between

ROHM POWERVATION LIMITED (formerly POWERVATION LIMITED) an Irish Company having an address of 11 Nesson House, Bessboro Road, Blackrock, Co. Cork, Republic of Ireland and a former address at National Technology Park, Castletroy, Co. Limerick, Republic of Ireland (hereinafter referred to as the Assignor), of the first part and

ROHM CO., LTD. a Japanese Company having an address of 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto-shi, Kyoto 615-8585, Japan (hereinafter referred to as Assignee) of the second part.

WHEREAS the Assignor is the registered proprietor of the patents and applications identified in the annex to this Assignment

WHEREAS in this Assignment, "Patents" means:

- (i) a specific patent or patent application listed in the annex to this Assignment;
- (ii) a patent or patent application to, from or through which any patent or patent application described in (i) claims priority; and
- (iii) any foreign patent, foreign patent application or foreign counterpart of any patent or patent application described in (i) or (ii) that has substantially the same specification and claims substantially the same invention as such patent or patent application.

AND

WHEREAS the Assignor has agreed with the Assignee to assign to the Assignee all his right, title, share and interest in and to the Patents.

NOW THIS DEED WITNESSETH that in consideration of good and valuable consideration, the receipt and sufficiency of which are hereby expressly acknowledged and without reservations:

1. The Assignor hereby sells, assigns, transfers, conveys and sets over to Assignee (1) all of Assignor's interest, right, title, property and benefit in and to each of the Patents, (2) the sole right to collect any damages for past, current and future infringement of each of the Patents to the extent not covered by license agreements



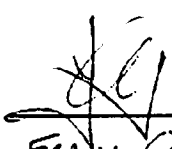
or forbearances existing as of the date hereof that have been expressly disclosed to Assignee prior to the date hereof and (3) the right to sue for past, current and future infringement of each of the Patents.

2. The Assignor hereby binds their heirs, legal representatives and assigns, as well as themselves, to do, upon the Assignee's request and at the Assignee's expense, but without additional consideration to them or to the Assignee, all acts reasonably serving to assure that Patents shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the Assignor, their heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to the Assignee all lawful application documents including petitions, specifications, oaths, powers of attorney, and all assignments, disclaimers and lawful affidavits in form and substance as may be required by the Assignee;
3. The Assignor hereby irrevocable appoints the Assignee as their Agent in their name to execute any document and do any act or thing as may be required to comply with the provisions of paragraphs 1 and 2 above.

IN WITNESS WHEREOF

the Assignor has executed this Assignment

this 7 day of July 2020


Name: FRANK CASSIDY
Title VP FINANCE

Signed on behalf of the Assignee

this 2nd day of July 2020


Name: Takaaki Nagura
Title: General Manager, Legal & Intellectual Property Division

Annex

List of Patents And Applications

Country or territory	Application or publication number	Short Description
USA	8644962	Alpha Controller-Adaptive Control
USA	8089256	Multiphase Switching Converter (digital method for passive current balance)
USA	9203302	Method for determining DC-DC Converter losses and DC-DC employing same
USA	9507356	An Adaptive Controller for Control of DC-DC Power Supply
USA	7627032	Digital Pulse Width Modulator
USA	7848406	Digital Pulse Width Modulator
USA	8396111	Digital Pulse Width Modulator
USA	8901903	Digital Stress Share Method
USA	9093986	Pulse Width Modulation synchronization of switched power converters
USA	8374008	Power Converter (Thermal Stress Share)
USA	10033267	Digital Stress Share Autozero Scheme
USA	9996126	Configuration method for a power supply controller and a controller employing same.
USA	10,474,210	Configuration method for a power supply controller and a controller employing same.
USA	16/005,543	Configuration method for a power supply controller and a controller employing same.
USA	16/323497	A Power Supply Controller
USA	10,128,753	Inductor Current Emulator
USA	9134739	Adaptive Analog Compensator for power supply
USA	9584018	Method and apparatus for a DC-DC converter to improve dynamic response thereof
EP (France, Germany, UK)	EP2113096	Alpha Controller-Adaptive Control
EP (France, Germany, UK)	EP2430737	Method for determining DC-DC Converter losses and DC-DC employing same
EP (France, Germany, UK)	EP2537240	An Adaptive Controller for Control of DC-DC Power Supply
EP	EP1649597	Digital Pulse Width Modulator
EP	EP24443731	Digital Stress Share Method

EP (France, Germany, UK)	EP2436116	Pulse Width Modulation synchronization of switched mode power converters
EP	EP3020125A (14738796.3)	Digital Stress Share Autozero Scheme
EP	EP2478628 (10754918.0)	Adaptive Analog Compensator for power supply
PCT	WO2008101864	Alpha Controller-Adaptive Control
PCT	WO2010130836 (PCT/EP2010/056679)	Method for determining DC-DC Converter losses and DC-DC employing same
PCT	WO2011101341 (PCT/EP2011/52202)	An Adaptive Controller for Control of DC-DC Power Supply
PCT	WO2010146068 (PCT/EP2010/058419)	Digital Stress Share Method
PCT	WO2010136225 (PCT/EP2010/51326)	Pulse Width Modulation synchronization of switched mode power converters
PCT	WO2009010476 (PCT/EP2008/059127)	Power Converter (Thermal Stress Share)
PCT	WO2015004077 (PCT/EP2014/064490)	Digital Stress Share Autozero Scheme
PCT	WO2012048998	Configuration method for a power supply controller and a controller employing same
PCT	WO2018024911 (PCT/EP2017/069877)	A Power Supply Controller
PCT	WO2011033004 (PCT/EP2010/063582)	Adaptive Analog Compensator for power supply
PCT	WO2015169689 (PCT/EP2015/59537)	Method and apparatus for a DC-DC converter to improve dynamic response thereof
PCT	PCT/EP2019/067993	A Level Shifter