PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5692535

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GE POWER ELECTRONICS, INC.	08/13/2018

RECEIVING PARTY DATA

Name:	ABB SCHWEIZ AG
Street Address:	BROWN BOVERI STRASSE 6
City:	BADEN
State/Country:	SWITZERLAND
Postal Code:	CH-5400

PROPERTY NUMBERS Total: 103

Property Type	Number
Patent Number:	5969503
Patent Number:	6011703
Patent Number:	6058026
Patent Number:	6069799
Patent Number:	6069807
Patent Number:	6075716
Patent Number:	6078511
Patent Number:	6091610
Patent Number:	6091616
Patent Number:	6094123
Patent Number:	6101111
Patent Number:	6104584
Patent Number:	6104623
Patent Number:	6124701
Patent Number:	6130529
Patent Number:	6130828
Patent Number:	6130830
Patent Number:	6137292
Patent Number:	6141231
Patent Number:	6144557

Property Type	Number
Patent Number:	6160379
Patent Number:	6163204
Patent Number:	6163266
Patent Number:	6163466
Patent Number:	6163470
Patent Number:	6169649
Patent Number:	6169671
Patent Number:	6175500
Patent Number:	6178098
Patent Number:	6181561
Patent Number:	6181577
Patent Number:	6189203
Patent Number:	6191559
Patent Number:	6191564
Patent Number:	6191569
Patent Number:	6191960
Patent Number:	6194880
Patent Number:	6201699
Patent Number:	6201719
Patent Number:	6218891
Patent Number:	6239993
Patent Number:	6249447
Patent Number:	6264093
Patent Number:	6288920
Patent Number:	6310301
Patent Number:	6342778
Patent Number:	6362517
Patent Number:	6396317
Patent Number:	6401946
Patent Number:	6411911
Patent Number:	6436570
Patent Number:	6437547
Patent Number:	6438007
Patent Number:	6445597
Patent Number:	6496396
Patent Number:	6519538
Patent Number:	6606258
Patent Number:	6643122

Property Type	Number
Patent Number:	6646895
Patent Number:	6693812
Patent Number:	6727794
Patent Number:	6760633
Patent Number:	6781497
Patent Number:	6822882
Patent Number:	6845015
Patent Number:	6875054
Patent Number:	6882548
Patent Number:	6927667
Patent Number:	6936372
Patent Number:	7009849
Patent Number:	7082043
Patent Number:	7129677
Patent Number:	7180397
Patent Number:	7187531
Patent Number:	7189047
Patent Number:	7196919
Patent Number:	7221140
Patent Number:	7256984
Patent Number:	7270176
Patent Number:	7271695
Patent Number:	7304862
Patent Number:	7342811
Patent Number:	7372711
Patent Number:	7432692
Patent Number:	7492607
Patent Number:	7492616
Patent Number:	7551425
Patent Number:	7567440
Patent Number:	7656265
Patent Number:	7732944
Patent Number:	7796404
Patent Number:	7830684
Patent Number:	7852635
Patent Number:	7953576
Patent Number:	8000076
Patent Number:	8148948

Property Type	Number
Patent Number:	8150540
Patent Number:	8154856
Patent Number:	8174821
Patent Number:	8193661
Patent Number:	8193864
Patent Number:	8270572
Patent Number:	8275559

CORRESPONDENCE DATA

Fax Number: (317)231-7433

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ATTORNEY DOCKET NUMBER:	65040-50
NAME OF SUBMITTER:	JOSHUA P. LARSEN
SIGNATURE:	/Joshua P. Larsen/
DATE SIGNED:	08/29/2019

Total Attachments: 10
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ASSIGNMENT

Pursuant to the Stock and Asset Purchase Agreement (hereinafter, "SAPA"), dated September 24, 2017, by and between General Electric Company and ABB Verwaltungs Ltd (and, solely for the purposes of Section 14.23 thereof, ABB Ltd), and for good and valuable consideration, the receipt of which is hereby acknowledged, GE POWER ELECTRONICS, INC. of 601 Shiloh Road, Plano, Texas 75074 (hereinafter, "Assignor") does hereby sell, convey, assign, transfer, and deliver to ABB SCHWEIZ AG, of Brown Boveri Strasse 6, CH-5400, Baden, Switzerland (hereinafter, "Assignee"), who accepts, the entire right, title, and interest in, to, and under: (i) all patents, patent applications, statutory invention registrations, and invention disclosures constituting Company Intellectual Property (as that term is defined in the SAPA), including those listed in the attached Exhibit; (ii) all inventions disclosed in the patents, patent applications, statutory invention registrations, and invention disclosures of clause (i); and (iii) all patents, patent applications, and statutory invention registrations directed to any of the inventions of clause (ii) (the subject matter of clauses (i), (ii), and (iii) being hereinafter collectively referred to as the "Assigned Patent Properties"), including the right to sue for past infringement of any and all of the Assigned Patent Properties and the right to collect any and all damages for such infringement.

Assignor agrees to execute any and all papers to be filed or recorded in connection with any of the Assigned Patent Properties, including any separate assignments of any of the Assigned Patent Properties, that the Assignee may deem necessary or desirable.

Assignor hereby consents to a unilateral application for recordation of the assignment solely by Assignee.

Assignor warrants that it possesses all right, title, and interest transferred by this Assignment and that it has not executed, and will not execute, any agreement in conflict with this Assignment.

Assignor grants Assignee's counsel (including any attorney of record for any of the Assigned Patent Properties) the power to insert on this Assignment any further identification of any of the Assigned Patent Properties that may be necessary or desirable for the filing and/or recordation of this document.

By: GE POWER ELECTRONICS, INC.

Signed: _____

Title: President

Dated: 8/13/2018

DECLARATION OF ACCEPTANCE

ABB SCHWEIZ AG, of Brown Boveri Strasse 6, CH-5400, Baden, Switzerland, accepts the assignment of the Assigned Patent Properties defined in above Assignment and applies for recording the Assignment in the patent register.

By: ABB SCHWEIZ AG

Signed: Bazmi Husain René Cotting

Title: CTO Head of Operations, Innovation & R&D

Dated: 3/12/2018

ACKNOWLEDGMENT

STATE OF }
} SS:
COUNTY OF }

The above signatures, on behalf of both Assignor and Assignee, were acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal this ____ day of July 2018.

_____
Notary Public (Signature)

_____
Printed Name

My Commission Expires: _____ Resident of _____ County.

Legalization

I, the undersigned notary public, MLaw Andrea Schifferle, residing and practising in Baden (Switzerland) hereby certify that the foregoing signatures are the proper handwritings of

- **Mr. René Cotting**, born 28th of February 1970, citizen of Tentlingen FR, living in Stäfa, who has identified himself with the Swiss passport Nr. X0608331,

- **Mr. Bazmi Rizwan Husain**, born 21st of September 1958, Indian citizen, living in Zürich, who has identified himself with the Indian passport Nr. Z3114291.

Both persons authorized to sign jointly for and on behalf of ABB Schweiz AG in Zürich.

Baden, 10th of December 2018

The notary public:

MLaw ANDREA SCHIFFERLE · NOTARIAT KREIS DES KANTONS AARGAU

EXHIBIT

Country	Pat. / Appl. No.	Title	Appl. Date
US	6181561	HEAT SINK HAVING STANDOFF BUTTONS AND A METHOD OF MANUFACTURING THEREFOR	2/4/1999
US	6130529	SECONDARY OUTPUT HOLDOVER CIRCUIT FOR A SWITCH-MODE POWER SUPPLY	12/22/1999
US	6191569	CIRCUIT AND METHOD FOR GENERATING ESTIMATED FEEDBACK FOR THE CONTROLLER OF A SLAVE POWER MODULE IN A MASTER/SLAVE PARALLELING SCHEME	12/3/1999
US	6201699	TRANSVERSE MOUNTABLE HEAT SINK FOR USE IN AN ELECTRONIC DEVICE	3/1/1999
US	6362517	HIGH VOLTAGE PACKAGE FOR ELECTRONIC DEVICE	9/22/1999
US	6191559	BATTERY CAPACITY CALCULATOR AND METHOD OF CALCULATING BATTERY CAPACITY	1/11/2000
US	6101111	OUTPUT POWER CONTROL CIRCUIT FOR A FLYBACK CONVERTER	9/29/1999
US	6519538	METHOD FOR PREDICTING STABILITY CHARACTERISTICS OF POWER SUPPLIES	4/6/2000
US	6069799	SELF-SYNCHRONIZED DRIVE CIRCUIT FOR A SYNCHRONOUS RECTIFIER IN A CLAMPED-MODE POWER CONVERTER	5/4/1998
US	6069807	COMPENSATION CIRCUIT METHOD OF OPERATIONS THEREOF AND CONVERTER EMPLOYING THE SAME	9/15/1999
US	6011703	SELF-SYNCHRONIZED GATE DRIVE FOR POWER CONVERTER EMPLOYING SELF-DRIVEN SYNCHRONOUS RECTIFIER AND METHOD OF OPERATION THEREOF	4/23/1998
US	6249447	SYSTEM AND METHOD FOR DETERMINING OUTPUT CURRENT AND CONVERTER EMPLOYING THE SAME	8/13/1999
US	6141231	BOARD MOUNTABLE POWER SUPPLY MODULE WITH CURRENT SHARING CIRCUIT AND A METHOD OF CURRENT SHARING BETWEEN PARALLEL POWER SUPPLIES	7/9/1999
US	6342778	LOW PROFILE, SURFACE MOUNT MAGNETIC DEVICES	4/20/2000

Country	Pat. / Appl. No.	Title	Appl. Date
US	6401946	COMPOSITE BATTERY STAND WITH INTEGRAL SPILL CONTAINMENT	5/10/2000
US	6436570	ELECTRICAL DISTRIBUTION SYSTEM FOR COMPOSITE BATTERY STAND AND COMPOSITE BATTERY STAND INCORPORATING THE SAME	5/10/2000
US	6160379	MODE SELECTION CIRCUIT FOR A BATTERY, A METHOD OF SELECTING MODES FOR THE BATTERY AND A BATTERY BACK-UP POWER SUPPLY EMPLOYING THE CIRCUIT AND METHOD	12/16/1999
US	6163470	EMI FILTER FOR AN INRUSH RELAY	10/7/1999
US	6181577	AUXILIARY BIAS CIRCUIT FOR A POWER SUPPLY AND A METHOD OF OPERATION THEREOF	7/26/1999
US	6130830	SYSTEM AND METHOD FOR PARALLELING POWER CONVERTER SYSTEMS AND POWER SUPPLY EMPLOYING THE SAME	2/8/1999
US	6144557	SELF-LOCKING CONDUCTIVE PIN FOR PRINTED WIRING SUBSTRATE ELECTRONICS CASE	4/9/1999
US	7342811	LOSSLESS CLAMP CIRCUIT FOR DC-DC CONVERTERS	5/27/2005
US	6496396	REVERSE RECOVERY CIRCUIT, METHOD OF OPERATION THEREOF AND ASYMMETRICAL HALF-BRIDGE POWER CONVERTER	2/9/2001
US	6163466	ASYMMETRICAL DC/DC CONVERTER HAVING OUTPUT CURRENT DOUBLER	9/16/1999
US	5969503	UNIFIED CONTACTOR CONTROL SYSTEM FOR BATTERY PLANT AND METHOD OF OPERATION THEREOF	1/12/1998
US	7372711	CIRCUIT AND METHOD FOR REDUCING VOLTAGE SPIKES DUE TO MAGNETIZING CURRENT IMBALANCES AND POWER CONVERTER EMPLOYING THE SAME	1/11/2005
US	7551425	APPARATUS AND METHOD FOR DISTRIBUTING ELECTRICAL POWER FROM A PLURALITY OF POWER SOURCES AMONG A PLURALITY OF ELECTRICAL CONDUCTORS	6/13/2006

Country	Pat. / Appl. No.	Title	Appl. Date
US	7196919	NEUTRAL POINT CONTROLLER, METHOD OF CONTROLLING AND RECTIFIER SYSTEM EMPLOYING THE CONTROLLER AND THE METHOD	3/25/2005
US	7271695	ELECTROMAGNETIC APPARATUS AND METHOD FOR MAKING A MULTI-PHASE HIGH FREQUENCY ELECTROMAGNETIC APPARATUS	8/27/2005
US	7270176	SYSTEM AND APPARATUS FOR FIXING A SUBSTRATE WITH A HEAT TRANSFERRING DEVICE	4/4/2005
US	7492616	MODULATION CONTROLLER, METHOD OF CONTROLLING AND THREE PHASE CONVERTER SYSTEM EMPLOYING THE SAME	3/25/2005
US	7256984	RECONFIGURABLE POWER DISTRIBUTION PANEL	5/10/2005
US	7732944	CENTRAL CURRENT SHARE COORDINATOR, METHOD OF CURRENT SHARING AND BATTERY PLANT EMPLOYING THE SAME	4/19/2005
US	7492607	EJECTOR FACEPLATE FOR ELECTRONICS MODULE	6/8/2005
US	7567440	APPARATUS AND METHOD SECURING A COMPONENT IN A RECEIVER STRUCTURE	12/22/2005
US	7656265	APPARATUS AND METHOD FOR ESTABLISHING A MAGNETIC CIRCUIT	12/12/2005
US	8270572	SYSTEM AND METHOD OF DETERMINING LATENT FAILURES IN TELEPHONE WIRE-PAIR POWER DISTRIBUTION	9/15/2006
US	7432692	CIRCUIT AND METHOD FOR CHANGING TRANSIENT RESPONSE CHARACTERISTICS OF A DC/DC CONVERTER MODULE	11/9/2006
US	7830684	REVERSE BIASING ACTIVE SNUBBER	12/12/2007
US	8275559	FAULT DETECTOR FOR A TIP AND RING CIRCUIT, A METHOD OF PROTECTING SUCH A CIRCUIT AND A POWER SUPPLY INCLUDING THE FAULT DETECTOR	3/28/2008
US	6078511	TEMPERATURE PROTECTION CIRCUIT FOR POWER CONVERTER AND METHOD OF OPERATION THEREOF	12/1/1998
US	6163266	FAN OPERATION DETECTION CIRCUIT FOR A DC FAN AND METHOD OF OPERATION THEREOF	12/8/1998

Country	Pat. / Appl. No.	Title	Appl. Date
US	6169649	DETECTION CIRCUIT FOR CIRCUIT PROTECTION DEVICES OF A POWER SUPPLY AND METHOD OF OPERATION THEREOF	7/16/1999
US	6194880	BOOST CONVERTER, METHOD OF CONVERTING POWER AND POWER SUPPLY EMPLOYING THE SAME	10/22/1999
US	6191960	ACTIVE CLAMP FOR ISOLATED POWER CONVERTER AND METHOD OF OPERATING THEREOF	5/9/2000
US	6239993	CIRCUIT ASSOCIATED WITH A POWER CONVERTER AND METHOD OF OPERATION THEREOF	6/23/2000
US	6091610	SYSTEM AND METHOD FOR REDUCING TRANSIENT SWITCH CURRENTS IN AN ASYMMETRICAL HALF BRIDGE CONVERTER	4/6/1998
US	6075716	TWO-STAGE, THREE PHASE BOOST CONVERTER WITH REDUCED TOTAL HARMONIC DISTORTION	4/6/1999
US	6178098	PHASE-SHIFTED POST-REGULATOR, METHOD OF OPERATION THEREOF AND POWER CONVERTER EMPLOYING THE SAME	9/22/1999
US	6201719	CONTROLLER FOR POWER SUPPLY AND METHOD OF OPERATION THEREOF	12/22/1999
US	6189203	METHOD OF MANUFACTURING A SURFACE MOUNTABLE POWER SUPPLY MODULE	4/8/1999
US	6310301	INTER-SUBSTRATE CONDUCTIVE MOUNT FOR A CIRCUIT BOARD, CIRCUIT BOARD AND POWER MAGNETIC DEVICE EMPLOYING THE SAME	4/8/1999
US	6411911	BATTERY DIAGNOSTIC METHOD UTILIZING A UNIVERSAL NORMALIZED DISCHARGE CURVE FOR PREDICTING BATTERY RESERVE TIME	6/30/1999
US	6137292	SELF-ADJUSTING BATTERY DIAGNOSTIC METHOD FOR CONTINUOUSLY PROVIDING BEST PREDICTION OF BATTERY RESERVE TIME	5/3/1999
US	6091616	DRIVE COMPENSATION CIRCUIT FOR SYNCHRONOUS RECTIFIER AND METHOD OF OPERATING THE SAME	10/21/1998

Country	Pat. / Appl. No.	Title	Appl. Date
US	6288920	DRIVE COMPENSATION CIRCUIT FOR SYNCHRONOUS RECTIFIER AND METHOD OF OPERATING THE SAME	7/17/2000
US	8150540	CONTROLLER AND METHOD FOR CONTROLLING CONVERTERS OF DISPARATE TYPE	9/17/2008
US	7796404	LLC CONVERTER SYNCHRONOUS FET CONTROLLER AND METHOD OF OPERATION THEREOF	10/23/2008
US	7953576	APPARATUS TO PREDICT FAN WEAR-OUT AND IMPENDING FAILURE AND METHOD OF MANUFACTURING THE SAME	10/14/2008
US	8193661	DC PLANT CONTROLLER AND METHOD FOR SELECTING AMONG MULTIPLE POWER SOURCES AND DC PLANT EMPLOYING THE SAME	2/17/2009
US	8148948	ADAPTIVE LOW VOLTAGE DISCONNECT CONTROLLER, METHOD OF PROTECTING A BATTERY AND A POWER SYSTEM MANAGER	3/13/2009
US	8000076	INTERRUPTER, A METHOD OF RESPONDING TO A MONITORED EVENT AND AN INTEGRATED CIRCUIT INCLUDING AN INTERRUPTER	7/15/2009
US	8193864	HIGH EFFICIENCY POWER AMPLIFIER POWER ARCHITECTURE	5/12/2010
US	8154856	CABINET FOR A POWER DISTRIBUTION SYSTEM	5/7/2010
US	8174821	CABINET FOR A HIGH CURRENT POWER DISTRIBUTION SYSTEM	5/7/2010
US	6437547	BOARD MOUNTABLE POWER SUPPLY MODULE WITH MULTI-FUNCTION CONTROL PIN	1/6/2001
US	6264093	LEAD-FREE SOLDER PROCESS FOR PRINTED WIRING BOARDS	11/2/1998
US	6438007	CONTROL CIRCUIT FOR PARALLELING POWER SUPPLIES AND METHOD OF OPERATION THEREOF	5/3/2000
US	6094123	LOW PROFILE SURFACE MOUNT CHIP INDUCTOR	9/25/1998
US	6175500	SURFACE MOUNT THERMAL CONNECTIONS	9/22/1998
US	6058026	MULTIPLE OUTPUT CONVERTER HAVING A SINGLE TRANSFORMER WINDING AND INDEPENDENT OUTPUT REGULATION	7/26/1999

Country	Pat. / Appl. No.	Title	Appl. Date
US	6104623	MULTIPLE OUTPUT CONVERTER HAVING SECONDARY REGULATOR USING SELF-DRIVEN SYNCHRONOUS RECTIFIERS	10/21/1999
US	6130828	MULTIPLE OUTPUT CONVERTER HAVING SELF-SYNCHRONIZED PULSE WIDTH MODULATION REGULATION	8/26/1999
US	6781497	APPARATUS AND METHOD FOR SITUATING AN INDUCTIVE ELEMENT ONTO A ROD IN AN ELECTRICAL CIRCUIT	6/16/2000
US	6727794	APPARATUS FOR ESTABLISHING INDUCTIVE COUPLING IN AN ELECTRICAL CIRCUIT AND METHOD OF MANUFACTURE THEREFOR	9/22/2001
US	6445597	LOCAL LOOP CONTROL SYSTEM FOR A MULTIPLE OUTPUT POWER CONVERTER	6/28/2001
US	6927667	MAGNETIC DEVICE HAVING A SPRINGABLE WINDING	11/1/2001
US	6606258	VOLTAGE REFERENCE TRANSLATION SYSTEM AND AN ELECTRONIC CIRCUIT EMPLOYING THE SAME	11/2/2001
US	6646895	BIAS SUPPLY CIRCUIT AND A SWITCHING POWER SUPPLY EMPLOYING THE SAME	10/25/2001
US	6693812	BIAS SUPPLY SELECTION CIRCUIT, METHOD OF OPERATION THEREOF AND POWER SUPPLY EMPLOYING THE SAME	8/12/2002
US	6845015	SYSTEM FOR REPLACING A COMPONENT IN A CABINET AND A METHOD FOR INSTALLING A REPLACEABLE COMPONENT IN A CABINET	8/14/2002
US	6875054	CONTAMINATION PREVENTION BETWEEN TWO ELECTRICAL COMPONENTS	7/5/2002
US	6936372	ENVIRONMENTAL CONTROL SYSTEM FOR USE WITH A BATTERY CABINET AND METHOD OF OPERATING A FAN THEREIN	8/15/2002
US	6882548	AUXILIARY ACTIVE CLAMP CIRCUIT, A METHOD OF CLAMPING A VOLTAGE OF A RECTIFIER SWITCH AND A POWER CONVERTER EMPLOYING THE CIRCUIT OR METHOD	2/24/2003
US	7187531	TRANSIENT SUPPRESSOR AND POWER CONVERTER EMPLOYING THE SAME	3/20/2003
US	6643122	BATTERY SERVICING SYSTEM WITH BRIDGING PROTECTION	11/13/2002

Country	Pat. / Appl. No.	Title	Appl. Date
US	7009849	BUCK CONVERTER WITH MULTIPLE OUTPUTS AND METHOD OF OPERATION THEREOF	10/28/2003
US	6822882	GATE DRIVER WITH A DC OFFSET BIAS CIRCUIT AND A POWER CONVERTER EMPLOYING THE SAME	8/1/2003
US	7189047	APPARATUS FOR MOVING A BATTERY	11/26/2003
US	7082043	DRIVE CIRCUIT FOR A SYNCHRONOUS RECTIFIER, METHOD OF PROVIDING DRIVE SIGNALS THERETO AND POWER CONVERTER INCORPORATING THE SAME	3/16/2004
US	7221140	CIRCUIT, METHOD AND SYSTEM FOR PROVIDING ONE OR MORE PHASE VOLTAGES FROM INPUT VOLTAGES	3/16/2004
US	7129677	VECTOR CONTROLLER, A POLYPHASE SYNCHRONOUS RECTIFIER, AND A METHOD OF VECTOR-CONTROLLING THEREOF	3/16/2004
US	7180397	PRINTED WIRING BOARD HAVING EDGE PLATING INTERCONNECTS	2/20/2004
US	7304862	PRINTED WIRING BOARD HAVING EDGE PLATING INTERCONNECTS	11/15/2006
US	7852635	MULTI-CONNECTION VIA	5/25/2004
US	6760633	METHOD AND APPARATUS FOR PREDICTING STABILITY OF A CLOSED LOOP APPARATUS	6/30/2000
US	6163204	FAST AC SENSOR FOR DETECTING POWER OUTAGES	12/1/1998
US	6396317	DIGITAL VOLTAGE CONTROLLED OSCILLATOR	5/28/1999
US	6104584	VOLTAGE FEEDBACK INRUSH CURRENT LIMIT CIRCUIT HAVING INCREASED TOLERANCE FOR COMPONENT VALUE VARIATION	2/18/1999
US	6124701	SYSTEM AND METHOD FOR DETERMINING BATTERY CONDITION AND TELECOMMUNICATIONS EQUIPMENT INCORPORATING THE SAME	6/22/1999
US	6169671	Snubber circuit for a power switch and recitifying diode and power converter employing the same	4/21/2000
US	6191564	POWER FACTOR CORRECTING ELECTRICAL CONVERTER APPARATUS	11/24/1999
US	6218891	Integrated circuit including a driver for a metal-semiconductor field-effect transistor	7/28/2000