

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GENERAL ELECTRIC COMPANY	07/20/2018
RECEIVING PARTY DATA	
Name:	ABB SCHWEIZ AG
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15263841
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NAME OF SUBMITTER:	JOSHUA P. LARSEN
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DATE SIGNED:	09/13/2018
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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, GENERAL ELECTRIC COMPANY of 1 River Road, Schenectady, New York 12345 (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 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: GENERAL ELECTRIC COMPANY

Signed: _____ *Deryk Mesford*

Title: Deryk MESFORD *Executive Director* GPO

Dated: 20/7/16

EXHIBIT

Country	Pat. / Appl. No.	Title	Appl. Date
US	6082895	THERMISTOR	9/18/1998
US	6252492	CONDITION-RESPONSIVE ELECTRIC SWITCH MECHANISM	3/18/1999
US	6239523	CUTOUT START SWITCH	7/1/1999
US	6249104	CUTOUT START SWITCH HEATING	7/1/1999
US	6380487	CIRCUIT BOARD PROTECTION SYSTEM AND METHOD	7/26/2000
US	6968277	POWER LINE MONITORING AND INTERRUPT METHOD AND APPARATUS	1/16/2002
US	6972936	PRE-EMPTIVE CIRCUIT BREAKER WITH ARC FAULT AND FAULT LOCKOUT SHORT CIRCUIT PROTECTION	3/29/2002
US	6798209	CIRCUIT BREAKER WITH INTEGRAL TESTING UNIT	1/17/2002
US	6700769	CARRIER ASSEMBLY FOR MULTIPLE PIN INSERTION	7/26/2001
US	6433279	FIELD OR FACTORY INSTALLABLE PADLOCK AND SEALING DEVICE	4/4/2001
US	6512192	EXHAUST ARC GAS MANIFOLD	10/2/2001
US	6853530	APPARATUS AND METHOD FOR ACTUATING A MECHANICAL DEVICE	9/15/2000
US	6849811	METHODS AND APPARATUS FOR TRANSFER SWITCH	7/31/2000
US	6909942	METHOD FOR POWER DISTRIBUTION SYSTEM COMPONENTS IDENTIFICATION, CHARACTERIZATION AND RATING	2/25/2003
US	7301738	METHOD AND APPARATUS FOR MINIMALLY INVASIVE NETWORK MONITORING	2/25/2003
US	6892145	METHOD AND SYSTEM FOR CONDITIONALLY TRIGGERED SYSTEM DATA CAPTURE	2/25/2003
US	7068612	METHOD FOR COMMUNICATING INFORMATION BUNDLED IN DIGITAL MESSAGE PACKETS	2/25/2003
US	6892115	METHOD AND APPARATUS FOR OPTIMIZED CENTRALIZED CRITICAL CONTROL ARCHITECTURE FOR SWITCHGEAR AND POWER EQUIPMENT	2/25/2003

Country	Pat. / Appl. No.	Title	Appl. Date
US	6999291	METHOD AND APPARATUS FOR NODE ELECTRONICS UNIT ARCHITECTURE	2/25/2003
US	7111195	METHOD AND SYSTEM FOR EXTERNAL CLOCK TO OBTAIN MULTIPLE SYNCHRONIZED REDUNDANT COMPUTERS	2/25/2003
US	7117105	METHOD AND APPARATUS FOR GROUND FAULT PROTECTION	2/25/2003
US	7151329	INTEGRATED PROTECTION, MONITORING, AND CONTROL SYSTEM	2/25/2003
US	7043340	PROTECTION SYSTEM FOR POWER DISTRIBUTION SYSTEMS	2/25/2003
US	7747356	INTEGRATED PROTECTION, MONITORING, AND CONTROL SYSTEM	11/20/2006
US	7269201	TIME-DELAYED TRANSMITTED REFERENCE SPREAD SPECTRUM TRANSMITTER WITH DIGITAL NOISE GENERATOR	10/9/2003
US	7453052	ELECTRICAL DISTRIBUTION APPARATUS WITH CONTROLLED COOLING	11/21/2005
US	6865073	PANELBOARD METERING ARRANGEMENT AND METHOD OF ASSEMBLY THEREOF	3/6/2003
US	6934147	SWITCHGEAR CONDUCTORS AND CONNECTIONS THEREFORE	1/26/2004
US	7362696	METHOD AND APPARATUS FOR AUTOMATIC TRANSFER SWITCH	10/21/2002
US	7075310	DEVICE AND METHOD FOR TESTING FOR A WIRING FAULT CONDITION	6/9/2004
US	7062388	SERIES ARC DETECTION	3/18/2004
US	6747532	METHOD, SYSTEM AND APPARATUS FOR EMPLOYING NEUTRAL POLES IN MULTIPOLE CIRCUIT BREAKERS	12/23/2002
US	6985784	CONFIGURING A CENTRALLY CONTROLLED CIRCUIT BREAKER PROTECTION SYSTEM	2/25/2003
US	7068483	CIRCUIT BREAKER LOCKOUT	2/25/2003
US	7254001	CIRCUIT PROTECTION SYSTEM	2/25/2003
US	8213144	CIRCUIT PROTECTION SYSTEM	6/20/2007
US	6750743	INTEGRATED THERMAL AND MAGNETIC TRIP UNIT	5/13/2003

Country	Pat. / Appl. No.	Title	Appl. Date
US	6940032	METHOD AND APPARATUS FOR ACHIEVING THREE POSITIONS	1/12/2004
US	6972649	METHOD AND APPARATUS FOR SHIELDING AND ARMATURE FROM A MAGNETIC FLUX	1/7/2005
US	7161454	APPARATUS AND METHOD FOR COOLING ELECTRICAL TRANSFORMERS	8/21/2003
US	7026894	METHOD AND APPARATUS FOR MAGNETICALLY TRIPPING CIRCUIT BREAKERS	3/4/2004
US	7154361	ACCESSORIES FOR A ROTATABLE LATCHING SHAFT OF A CIRCUIT BREAKER	5/4/2005
US	7112951	MEMS BASED CURRENT SENSOR USING MAGNETIC-TO-MECHANICAL CONVERSION AND REFERENCE COMPONENTS	6/7/2004
US	7315161	MICRO-ELECTROMECHANICAL SYSTEM (MEMS) BASED CURRENT AND MAGNETIC FIELD SENSOR HAVING CAPACITIVE SENSE COMPONENTS	5/13/2005
US	7221144	MICRO-ELECTROMECHANICAL SYSTEM (MEMS) BASED CURRENT AND MAGNETIC FIELD SENSOR HAVING IMPROVED SENSITIVITIES	11/30/2005
US	7466121	MEMS BASED CURRENT SENSOR USING MAGNETIC-TO-MECHANICAL CONVERSION AND REFERENCE COMPONENTS	8/18/2006
US	7495430	MEMS BASED CURRENT SENSOR USING MAGNETIC-TO-MECHANICAL CONVERSION AND REFERENCE COMPONENTS	8/18/2006
US	7508189	MICRO-ELECTROMECHANICAL SYSTEM (MEMS) BASED CURRENT AND MAGNETIC FIELD SENSOR HAVING IMPROVED SENSITIVITIES	4/11/2007
US	7741832	MICRO-ELECTROMECHANICAL SYSTEM (MEMS) BASED CURRENT AND MAGNETIC FIELD SENSOR USING TUNNELING CURRENT SENSING	4/18/2007

Country	Pat. / Appl. No.	Title	Appl. Date
US	7901970	MICRO-ELECTROMECHANICAL SYSTEM (MEMS) BASED CURRENT AND MAGNETIC FIELD SENSOR HAVING CAPACITIVE SENSE COMPONENTS	11/14/2007
US	6778048	CIRCUIT BREAKER INTERFACE MECHANISM FOR BELL ALARM SWITCH	5/13/2003
US	6842096	CIRCUIT BREAKER MAGNETIC TRIP ASSEMBLY	5/13/2003
US	6903635	CIRCUIT BREAKER INTERFACE MECHANISM FOR AUXILIARY SWITCH ACCESSORY	5/13/2003
US	6952149	APPARATUS FOR INTERRUPTING A SHORT CIRCUIT IN A CIRCUIT BREAKER	5/13/2003
US	6933814	PHASE-TO-PHASE ISOLATION OF CASSETTE TYPE CIRCUIT BREAKERS	5/13/2003
US	6930577	CIRCUIT BREAKER LUG COVER AND GASKET	9/15/2003
US	6965292	ISOLATION CAP AND BUSHING FOR CIRCUIT BREAKER ROTOR ASSEMBLY	8/29/2003
US	6985059	CIRCUIT BREAKER HANDLE BLOCK	9/10/2003
US	6822543	SYSTEM AND METHOD FOR CONTROLLING TRIP UNIT MECHANICAL STRESS	9/24/2003
US	6930573	INTERLOCKING CASSETTES FOR DIMENSIONAL STABILITY	8/29/2003
US	7058482	DATA SAMPLE AND TRANSMISSION MODULES FOR POWER DISTRIBUTION SYSTEMS	2/25/2003
US	7532955	DISTRIBUTED PROTECTION SYSTEM FOR POWER DISTRIBUTION SYSTEMS	8/15/2005
US	7636616	PROTECTION SYSTEM FOR POWER DISTRIBUTION SYSTEMS	4/13/2006
US	7221246	SPLIT ROTOR SYSTEM AND METHOD WITH SPRINGS	1/7/2005
US	8171543	ELECTRONIC TRIP UNITS WITH LIMITED READ/WRITE ACCESS	8/29/2007
US	7747354	CIRCUIT PROTECTION SYSTEM	9/15/2003
US	7986503	CIRCUIT PROTECTION SYSTEM	9/15/2003
US	7012421	ENERGY CALCULATION METHODS IN POWER DISTRIBUTION SYSTEMS	9/15/2003

Country	Pat. / Appl. No.	Title	Appl. Date
US	6847297	LOCATOR DEVICES AND METHODS FOR CENTRALLY CONTROLLED POWER DISTRIBUTION SYSTEMS	9/15/2003
US	7262943	CONFIGURATION UNIT AND METHODS FOR CONFIGURING CENTRALLY CONTROLLED POWER DISTRIBUTION SYSTEMS	9/15/2003
US	7372177	CONTROL SYSTEM, METHOD AND PRODUCT FOR UNINTERRUPTIBLE POWER SUPPLY	9/15/2005
US	7252543	METHODS AND SYSTEMS FOR MEASURING SYSTEM LOADS AND SUB-METERING ELECTRIC POWER DISTRIBUTION	12/8/2004
US	7180300	SYSTEM AND METHOD OF LOCATING GROUND FAULT IN ELECTRICAL POWER DISTRIBUTION SYSTEM	12/10/2004
US	7859811	MODULAR COMMUNICATION PLUG-IN MODULE FOR AN ELECTRONIC TRIP UNIT	9/19/2007
US	7304829	APPARATUS AND METHOD FOR FILTERING CURRENT SENSOR OUTPUT SIGNALS	2/16/2005
US	7535686	CONTROL OF CIRCUIT BREAKERS IN A MULTI-PHASE POWER SYSTEM	6/8/2005
US	7826932	SYSTEMS AND METHODS FOR UPDATING GRAPHICAL REPRESENTATIONS ON MULTIPLE INTERFACE DEVICES	12/10/2004
US	7433170	APPARATUS AND METHOD OF CONTROLLING THE CLOSING ACTION OF A CONTACTOR	11/17/2005
US	6951990	APPARATUS FOR RACKING CIRCUIT BREAKERS INTO AND OUT OF SWITCHGEAR	11/29/2004
US	8050000	MICRO-ELECTROMECHANICAL SYSTEM BASED ARC-LESS SWITCHING WITH CIRCUITRY FOR ABSORBING ELECTRICAL ENERGY DURING A FAULT CONDITION	12/14/2010
US	7576963	CIRCUIT PROTECTION SYSTEM	12/28/2006
US	8754544	APPARATUS FOR SYNCHRONIZING UNINTERRUPTIBLE POWER SUPPLIES	11/22/2005

Country	Pat. / Appl. No.	Title	Appl. Date
US	7456520	CONTROL SYSTEM, METHOD AND PRODUCT FOR UNINTERRUPTIBLE POWER SUPPLY	3/31/2005
US	7302036	SYSTEMS AND METHODS FOR NON-INTRUSIVE INSPECTIONS OF HIGH-VOLTAGE CIRCUIT BREAKERS	12/9/2005
US	7375989	AC/DC CONVERTER AND METHOD OF MODULATION THEREOF	9/28/2005
US	7474081	AC/DC CONVERTER AND METHOD OF MODULATION THEREOF	9/28/2005
US	7061349	CIRCUIT BREAKER CONFIGURED TO BE REMOTELY OPERATED	3/24/2005
US	7342474	CIRCUIT BREAKER CONFIGURED TO BE REMOTELY OPERATED	11/16/2005
US	7019606	CIRCUIT BREAKER CONFIGURED TO BE REMOTELY OPERATED	3/28/2005
US	7298606	APPARATUS FOR INTERFACING REMOTE OPERATED AND NON-REMOTE OPERATED CIRCUIT BREAKERS WITH AN ELECTRICAL PANEL	3/24/2005
US	7468566	AUTOMATIC TRANSFER SWITCH APPARATUS	11/21/2005
US	7453256	MICRO-ELECTROMECHANICAL SYSTEM (MEMS) BASED CURRENT AND MAGNETIC FIELD SENSOR	2/16/2006
US	7705583	MICRO-ELECTROMECHANICAL SYSTEM (MEMS) BASED CURRENT AND MAGNETIC FIELD SENSOR	10/15/2008
US	7599161	RELAY DEVICE AND CORRESPONDING METHOD	12/29/2006
US	7652871	METHODS AND SYSTEMS FOR ELECTRICAL POWER SUB-METERING	1/4/2006
US	7405369	INTERLOCK APPARATUS AND METHOD FOR DISCONNECT SWITCHES	8/8/2005
US	7189935	CONTACT ARM APPARATUS AND METHOD OF ASSEMBLY THEREOF	12/8/2005
US	7369389	ELECTRONIC TRIP UNIT FOR CIRCUIT BREAKERS	12/8/2005
US	7839617	ELECTRONIC TRIP UNIT FOR CIRCUIT BREAKERS	3/31/2008
US	7589625	WIRELESS SYSTEM WITH MULTI-DEVICE CONTROL	12/20/2005

Country	Pat. / Appl. No.	Title	Appl. Date
US	8032260	METHOD AND SYSTEM FOR CONTROLLING A POWER DISTRIBUTION SYSTEM	11/30/2005
US	7517235	PRESS FIT CONNECTION FOR MOUNTING ELECTRICAL PLUG-IN OUTLET INSULATOR TO A BUSWAY ALUMINUM HOUSING	12/28/2006
US	7732948	PORTABLE ENERGY DEVICE	10/18/2006
US	7430482	WAVEFORM RECORDER APPARATUS AND METHOD	12/21/2005
US	8363389	SWITCHBOARD WITH UPS AND HORIZONTAL BUSBARS	9/9/2010
US	7936547	CIRCUIT BREAKER ELECTRONIC TRIP UNIT PERSONALITY MODULE	12/4/2007
US	7463989	WAVEFORM RECORDER APPARATUS AND METHOD	12/21/2005
US	7751165	CENTRALLY CONTROLLED PROTECTION SYSTEMS HAVING REDUCED ENERGY LET-THROUGH MODE	12/26/2007
US	7750646	DETECTOR FOR PRECURSIVE DETECTION OF ELECTRICAL ARC	1/10/2008
US	7446270	INTERLOCK ASSEMBLIES FOR CIRCUIT BREAKERS	12/28/2006
US	7493221	SYSTEM FOR POWER SUB-METERING	9/28/2006
US	7546214	SYSTEM FOR POWER SUB-METERING	6/8/2007
US	7542256	RELAY DEVICE AND CORRESPONDING METHOD	12/29/2006
US	7540792	SWITCHING APPARATUS	8/7/2006
US	7875822	ABLATIVE-BASED MULTIPHASE CURRENT INTERRUPTER	1/10/2008
US	7800007	CIRCUIT BREAKER SUBASSEMBLY APPARATUS	6/26/2007
US	8228653	CIRCUIT BREAKERS WITH AUTOMATIC BREAKER RATING	12/6/2007
US	7542250	MICRO-ELECTROMECHANICAL SYSTEM BASED ELECTRIC MOTOR STARTER	1/10/2007
US	7378837	METHOD AND SYSTEM FOR CALIBRATING A MICRO-ELECTROMECHANICAL SYSTEM (MEMS) BASED SENSOR USING TUNNELING CURRENT SENSING	1/3/2007
US	7633365	CIRCUIT BREAKER APPARATUS	6/28/2007

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US	7550872	CURRENT SENSOR APPARATUS AND METHOD FOR UNINTERRUPTIBLE POWER SUPPLY	12/19/2006
US	7790996	STATUS INDICATION FOR EMERGENCY STOP PUSH BUTTON	7/12/2007
US	7790996	STATUS INDICATION FOR EMERGENCY STOP PUSH BUTTON	7/12/2007
US	7821749	ARC FLASH ELIMINATION APPARATUS AND METHOD	3/30/2007
US	7929260	ARC FLASH ELIMINATION SYSTEM, APPARATUS, AND METHOD	8/30/2007
US	7384317	MULTI-TERMINAL BLOCK FOR ELECTRONIC DEVICES HAVING SUPERIMPOSED CONDUCTOR CONNECTING LEVELS	12/21/2006
US	7515025	CURRENT TRIP UNIT FOR CIRCUIT BREAKER	12/20/2006
US	8183964	CURRENT TRIP UNIT FOR CIRCUIT BREAKER	2/18/2009
US	8742282	ABLATIVE PLASMA GUN	4/16/2007
US	7903382	MEMS MICRO-SWITCH ARRAY BASED ON CURRENT LIMITING ENABLED CIRCUIT INTERRUPTING APPARATUS	6/19/2007
US	7508653	LOAD CENTER WITH PLUG IN NEUTRAL CONNECTIONS	12/27/2006
US	7463465	SERIES ARC FAULT CURRENT INTERRUPTERS AND METHODS	12/28/2006
US	7826184	SERIES ARC FAULT INTERRUPTERS AND METHODS	10/29/2008
US	7864004	ACTIVATION FOR SWITCHING APPARATUS	12/29/2006
US	7561393	CIRCUIT PROTECTION SYSTEM	12/28/2006
US	7692903	APPARATUS AND METHOD FOR CONTROLLING A CIRCUIT BREAKER TRIP DEVICE	12/20/2007
US	8144445	MICRO-ELECTROMECHANICAL SYSTEM BASED SWITCHING	6/12/2007
US	7944660	MICRO-ELECTROMECHANICAL SYSTEM BASED SELECTIVELY COORDINATED PROTECTION SYSTEMS AND METHODS FOR ELECTRICAL DISTRIBUTION	6/15/2007
US	7589942	MEMS BASED MOTOR STARTER WITH MOTOR FAILURE DETECTION	6/15/2007

Country	Pat. / Appl. No.	Title	Appl. Date
US	7508096	SWITCHING CIRCUIT APPARATUS HAVING A SERIES CONDUCTION PATH FOR SERVICING A LOAD AND SWITCHING METHOD	9/20/2007
US	7655876	METHOD AND APPARATUS FOR SENSING CONTACT POSITION	10/5/2007
US	7580232	ARC DETECTION SYSTEM AND METHOD	12/21/2007
US	8563888	ARC CONTAINMENT DEVICE AND METHOD	6/11/2008
US	8809705	DEVICE AND METHOD FOR SWITCHING ELECTRICAL ENERGY	12/4/2007
US	7566840	CONTACT ARM MECHANISM FOR CIRCUIT BREAKER	10/4/2007
US	8053699	ELECTRICAL PULSE CIRCUIT	11/27/2007
US	7911302	SECONDARY TRIP SYSTEM FOR CIRCUIT BREAKER	11/15/2007
US	8168911	CIRCUIT BREAKER WITH IMPROVED ARC QUENCHING	9/19/2008
US	7802037	CONTROL OF AN ACTUATOR-SENSOR-INTERFACE COMPATIBLE DEVICE USING A REMOTE INTELLIGENCE DEVICE	11/5/2008
US	7973625	TOOL FREE CONTACT BLOCK	6/5/2008
US	8383969	APPARATUS INCLUDING A CIRCUIT BREAKER RETAINING MECHANISM FOR USE IN WITHDRAWABLE CIRCUIT BREAKERS AND METHOD OF OPERATING THE SAME	8/26/2008
US	7911768	DRAWOUT DOOR INTERFACE FOR CIRCUIT BREAKER	8/12/2008
US	8119943	DRAW-OUT MECHANISM FOR MOLDED CASE CIRCUIT BREAKERS	8/29/2008
US	8139336	FIELD CONFIGURABLE RATING PLUG USING COMMUNICATION AND CONTROL SIGNAL	12/24/2008
US	7986505	DUAL POWER SOURCE PULSE GENERATOR FOR A TRIGGERING SYSTEM	9/3/2008
US	8154843	DUAL POWER SOURCE PULSE GENERATOR FOR A TRIGGERING SYSTEM	6/27/2011
US	8054591	ARC DETECTION USING DISCRETE WAVELET TRANSFORMS	7/24/2008



Country	Pat. / Appl. No.	Title	Appl. Date
US	7791846	ARC FLASH DETECTION SYSTEM, APPARATUS AND METHOD	7/30/2008
US	7965483	ELECTRONIC TRIP UNIT OF A CIRCUIT BREAKER	9/12/2008
US	7821775	RACKING MECHANISM FOR A CIRCUIT BREAKER	4/15/2008
US	7764485	ELECTRICAL DISTRIBUTION DEVICE ASSEMBLY	4/15/2008
US	7863534	SPRING DISCHARGE MECHANISM FOR CIRCUIT BREAKER	4/15/2008
US	7834724	ELECTROMECHANICAL INTERLOCK FOR ELECTRICAL PROTECTION DEVICES	4/15/2008
US	7834281	DRAW OUT CIRCUIT BREAKER ASSEMBLY HAVING A TELESCOPIC RACKING HANDLE	4/15/2008
US	7935902	CONTACT ASSEMBLY OF CIRCUIT BREAKER	4/15/2008
US	8592709	CURRENT PATH ARRANGEMENT FOR A CIRCUIT BREAKER	4/15/2008
US	7705263	ARC CHUTE ASSEMBLY FOR A CIRCUIT BREAKER	4/15/2008
US	7906740	READINESS FOR CLOSING INDICATOR FOR CIRCUIT BREAKERS	4/15/2008
US	7795551	RACKING OF ELECTRICAL DISTRIBUTION DEVICES	4/15/2008
US	7964809	CAM OPERATED SPRING DISCHARGE INTERLOCK MECHANISM	7/29/2008
US	7663867	SECONDARY CIRCUIT TERMINAL BLOCK DESIGN FOR FIXED TYPE CIRCUIT BREAKERS	4/15/2008
US	7936239	BREAKER INTERLOCK SYSTEM AND METHOD	4/15/2008
US	7718908	CONTACT ARM ASSEMBLY AND METHOD FOR ASSEMBLING THE CONTACT ARM ASSEMBLY	10/1/2008
US	8089789	METHOD AND SYSTEM FOR MANAGING UNINTERRUPTABLE POWER SUPPLY FOR HARMONIC REDUCTION	11/6/2008
US	8144438	MOTOR CONTROL CENTER COMMUNICATION SYSTEM	10/3/2008
US	8023238	UNIVERSAL TRIP UNIT	4/15/2008
US	8054592	ARC FAULT DETECTION USING FUZZY LOGIC	10/3/2008

Country	Pat. / Appl. No.	Title	Appl. Date
US	8223466	ARC FLASH DETECTION	6/30/2009
US	7995315	GROUND FAULT PROTECTION CIRCUIT FOR MULTI-SOURCE ELECTRICAL DISTRIBUTION SYSTEM	7/14/2008
US	8749327	CIRCUIT INTERRUPTER TRIP APPARATUS AND METHOD	9/18/2008
US	8018092	SYSTEM AND METHOD FOR MANAGING POWER SUPPLY TO A CIRCUIT BREAKER CONTROL UNIT	4/15/2008
US	8014115	CIRCUIT BREAKER HAVING SEPARATE RESTRAINED AND UNRESTRAINED ZONE SELECTIVE INTERLOCK SETTING CAPABILITY	4/15/2008
US	8213138	CIRCUIT BREAKER WITH ARC FAULT DETECTION AND METHOD OF OPERATION	8/8/2008
US	8270136	CIRCUIT BREAKER ZONE SELECTIVE INTERLOCK FOR DIFFERENTIATED FAULTS AND METHOD OF OPERATION	4/15/2008
US	8390973	CIRCUIT BREAKER ZONE SELECTIVE INTERLOCK FOR DIFFERENTIATED FAULTS AND METHOD OF OPERATION	8/9/2012
US	7927155	SECONDARY DISCONNECT FOR CIRCUIT BREAKER DRAWOUT SYSTEM	9/11/2008
US	8120886	CIRCUIT BREAKER CLOSING ACTUATOR AND METHOD OF OPERATION	9/4/2008
US	8159793	ARC DETECTION USING DETAILED AND APPROXIMATE COEFFICIENTS FROM DISCRETE WAVELET TRANSFORMS	12/22/2008
US	8163998	ELECTRICAL BUSWAY FLANGE END STUB	9/11/2008
US	8548638	ENERGY MANAGEMENT SYSTEM AND METHOD	2/18/2009
US	8207742	DIRECTIONAL ZONE SELECT INTERLOCK METHOD	12/31/2008
US	8170816	PARALLEL ARC DETECTION USING DISCRETE WAVELET TRANSFORMS	12/29/2008
US	8420963	ELECTRICAL ENCLOSURE APPARATUS	12/23/2009



Country	Pat. / Appl. No.	Title	Appl. Date
US	7692108	CIRCUIT BREAKER LOCK-OUT DEVICE	12/16/2008
US	8178806	DEVICE FOR MOUNTING AN ACCESSORY DEVICE TO A CIRCUIT BREAKER	4/17/2009
US	8027154	REPLACEMENT PANEL BOARD AND METHODS FOR SELECTING	12/31/2008
US	8618435	ABLATIVE PLASMA GUN	5/26/2009
US	8589094	GLOBAL TRIP UNIT	8/28/2009
US	8280670	METHOD AND APPARATUS FOR DETECTING FAILURE OF AN ACTUATOR SWITCHING DEVICE	10/20/2009
US	8183479	LOCK MOUNTING DEVICE	5/1/2009
US	8344994	REDUCED ENERGY LET THROUGH MODE INDICATION AND DELAY IN SWITCHING DEVICES	9/11/2009
US	7944213	GROUND FAULT DETECTION DEVICE	9/24/2009
US	8922972	INTEGRAL MODULE POWER CONDITIONING SYSTEM	8/12/2011
US	7994882	SPACE ALLOCATION WITHIN A CIRCUIT BREAKER	4/18/2009
US	8089282	TEST ASSEMBLY FOR A CIRCUIT BREAKER	4/18/2009
US	8093746	CONTROL OF FOUR-LEG TRANSFORMERLESS UNINTERRUPTIBLE POWER SUPPLY	12/16/2009
US	8282174	CORNER STRUCTURE FOR ELECTRICAL ENCLOSURE	4/17/2009
US	8380454	ELECTRICAL EQUIPMENT ASSEMBLY AND METHOD OF CALIBRATING AN ELECTRICAL EQUIPMENT ASSEMBLY	8/14/2009
US	8335063	REDUNDANT SYSTEMS, METHODS, AND APPARATUS FOR USE IN ARC FLASH PREVENTION SYSTEMS	8/31/2010
US	9359798B2	DOOR LATCH FOR ELECTRICAL EQUIPMENT ENCLOSURE	12/23/2009
US	8324302	INSULATING COMPOSITION AND METHOD FOR MAKING THE SAME	2/18/2010
US	8492979	PLASMA GENERATION APPARATUS	3/25/2010
US	8922958	METHOD AND SYSTEMS FOR DISCHARGING ENERGY FROM AN ELECTRICAL FAULT	6/12/2012

Country	Pat. / Appl. No.	Title	Appl. Date
US	8330069	APPARATUS AND SYSTEM FOR ARC ELIMINATION AND METHOD OF ASSEMBLY APPARATUS AND SYSTEM FOR ARC ELIMINATION AND METHOD OF ASSEMBLY	9/16/2010
US	8564915	METHODS, SYSTEMS, AND APPARATUS FOR DETECTING ARC FLASH EVENTS USING LIGHT AND TIME DISCRIMINATION	9/8/2010
US	8649139	METHODS, SYSTEMS, AND APPARATUS FOR DETECTING ARC FLASH EVENTS USING CURRENT AND VOLTAGE	8/23/2010
US	8666520	METHODS, SYSTEMS, AND APPARATUS FOR SHEDDING LOADS FROM AN ELECTRICAL GRID	10/12/2010
US	8270167	HEAT TRANSFER APPARATUS FOR USE WITH ELECTRICAL DEVICES	10/21/2010
US	8526151	SHARED MEMORY ARCHITECTURE FOR PROTECTION OF ELECTRICAL DISTRIBUTION EQUIPMENT	11/12/2010
US	8189311	CIRCUIT BREAKER CONTROL	11/30/2009
US	8471159	UNDERCARRIAGE AND KEYLOCK ASSEMBLY FOR USE WITH A CIRCUIT BREAKER	11/15/2010
US	8422256	CONTROL SYSTEM FOR HIGH-EFFICIENCY OPERATION IN PARALLEL INVERTER INSTALLATIONS	7/30/2010
US	8830026	SHAPE MEMORY ALLOY ACTUATED CIRCUIT BREAKER	12/30/2010
US	8536815	METHODS AND SYSTEMS INVOLVING ELECTRIC MACHINE CONTROLLERS	1/28/2011
US	8785776	METHODS AND SYSTEMS FOR COUPLING BUSWAY COMPONENTS	12/6/2010
US	9251980B2	APPARATUS FOR INTERRUPTING CURRENT	1/14/2011
US	8681469	CIRCUIT PROTECTION DEVICE FOR USE IN MEDIUM AND HIGH VOLTAGE ENVIRONMENTS	3/22/2011
US	8400321	METHODS AND APPARATUS FOR OPERATING AN ELECTRONIC TRIP DEVICE	11/15/2010

Country	Pat. / Appl. No.	Title	Appl. Date
US	8395063	LOCKING DEVICE FOR USE WITH A CIRCUIT BREAKER AND METHOD OF ASSEMBLY	12/29/2010
US	8479601	GEARLESS TRANSMISSION MECHANISM	8/3/2010
US	8385035	PROTECTION SYSTEM HAVING REDUCED ENERGY LET-THROUGH MODE AND ZONE SELECTIVITY	7/16/2010
US	8472154	SYSTEMS, METHODS, AND APPARATUS FOR LEAKAGE CURRENT MASKING AND GROUND FAULT DETECTION	12/8/2010
US	8455752	INTEGRAL AC MODULE GROUNDING SYSTEM	7/29/2010
US	8270139	ADJUSTABLE ARC ELECTRODE ASSEMBLY AND METHOD OF ASSEMBLING	9/16/2010
US	8497439	SELF-ALIGNING SECONDARY DISCONNECT DEVICE FOR ELECTRICAL SWITCHGEAR	3/10/2011
US	8525054	DISCHARGE MECHANISM FOR CIRCUIT BREAKER	12/17/2010
US	8264809	SYSTEM AND APPARATUS FOR CIRCUIT PROTECTION WITHIN AN EQUIPMENT ENCLOSURE	9/15/2010
US	8405364	APPARATUS FOR CONTROLLING CAPACITOR CHARGE STATUS AND METHOD OF ASSEMBLY	9/2/2010
US	8575916	METHOD, SYSTEM, AND APPARATUS FOR DETECTING AN ARC EVENT USING BREAKER STATUS	12/8/2010
US	8482905	MOUNTING MODULES FOR A DC DISTRIBUTION ASSEMBLY	7/13/2011
US	8487721	CIRCUIT INTERRUPTION DEVICE AND METHOD OF ASSEMBLY	1/6/2011
US	9373978B2	UNINTERRUPTIBLE POWER SUPPLY APPARATUS FOR RECEIVING POWER FROM DIFFERENT ELECTRICAL UTILITY CONFIGURATIONS	7/24/2012
US	8593133	CURRENT MEASURING SYSTEMS AND METHODS OF ASSEMBLING THE SAME	12/29/2010

Country	Pat. / Appl. No.	Title	Appl. Date
US	8536838	CAPACITANCE CHECK AND VOLTAGE MONITORING CIRCUIT FOR USE WITH A CIRCUIT PROTECTION DEVICE	12/14/2010
US	8552333	SYSTEMS, METHODS, AND APPARATUS FOR PREVENTING ELECTROMIGRATION BETWEEN PLASMA GUN ELECTRODES	12/30/2010
US	9036309	ELECTRODE AND PLASMA GUN CONFIGURATION FOR USE WITH A CIRCUIT PROTECTION DEVICE	9/16/2010
US	8649146	CAPACITANCE CHECK AND CURRENT MONITORING CIRCUIT FOR USE WITH A CIRCUIT PROTECTION DEVICE	12/17/2010
US	8547106	METHODS AND SYSTEMS INVOLVING MONITORING CIRCUIT CONNECTIVITY	12/30/2010
US	8704114	INTERLOCKED CIRCUIT BREAKERS	5/5/2011
US	9054553	REDUNDANT CONTROL SYSTEMS, METHODS, AND DEVICES FOR PARALLEL INVERTER INSTALLATIONS	1/16/2012
US	9425650B2	SYSTEMS, METHODS, AND DEVICES FOR CONTROL OF MULTIMODE UPS	1/31/2012
US	9048037	LINEAR AUTOMATIC TRANSFER SWITCH AND SWITCHING MEANS	2/17/2012
US	8963555	METHODS, SYSTEMS, AND APPARATUS FOR DETECTING LIGHT AND ACOUSTIC WAVES	5/13/2011
US	8598484	SYSTEM AND APPARATUS FOR CIRCUIT PROTECTION WITHIN AN EQUIPMENT ENCLOSURE	12/30/2010
US	8350175	DEVICE AND METHOD FOR CIRCUIT PROTECTION	12/30/2010
US	8900002	ADJUSTABLE ELECTRICAL BUSWAY JOINT	12/28/2011
US	9588182	SYSTEMS, METHODS, AND DEVICES FOR CAPACITANCE ESTIMATION OF POWER CAPACITORS	1/10/2013
US	8796568	SWITCHING ASSEMBLY HAVING AN INTERLOCK DEVICE FOR A SELECTOR SWITCH	12/29/2010
US	8366460	WITHDRAWABLE CIRCUIT BREAKER SHUTTER SYSTEMS	1/31/2011

Country	Pat. / Appl. No.	Title	Appl. Date
US	8299377	INTERLOCKS FOR WITHDRAWABLE BREAKERS	1/31/2011
US	8773235	ELECTRICAL SWITCH AND CIRCUIT BREAKER	11/15/2012
US	8788233	DIAGNOSTIC SYSTEM AND METHOD FOR A THERMISTOR AMPLIFIER CIRCUIT	1/18/2011
US	8278811	DEVICE AND METHOD FOR CIRCUIT PROTECTION	12/30/2010
US	9160202	CONTROL SYSTEM FOR UNINTERRUPTIBLE POWER SUPPLIES	1/31/2012
US	9184572	OVERLAP PROTECTIVE SHUTTER DEVICE FOR ELECTRICAL EQUIPMENT	4/25/2014
US	8847088	COVER MOUNTED HANDLE OPERATING MECHANISM WITH INTEGRATED INTERLOCK ASSEMBLY FOR A BUSPLUG ENCLOSURE	9/22/2011
US	8540526	ADJUSTABLE ELECTRICAL BUSWAY JOINT	12/28/2011
US	8472219	METHOD AND SYSTEMS FOR CONVERTING POWER	9/14/2011
US	8570713	ELECTRICAL DISTRIBUTION SYSTEM INCLUDING MICRO ELECTRO-MECHANICAL SWITCH (MEMS) DEVICES	6/29/2011
US	8381614	HANDLE APPARATUS	11/16/2011
US	8854070	CHARGING DEVICE, DETECTION SYSTEM, AND METHOD OF TESTING A DETECTION SYSTEM	1/26/2012
US	8690612	ELECTRICAL CONNECTORS AND METHODS FOR COUPLING THE ELECTRICAL CONNECTORS TO BUSBARS	3/26/2012
US	8595900	ELECTRICAL SYSTEM ENCLOSURE	3/30/2012
US	8550830	METHODS AND SYSTEMS FOR COUPLING BUSWAY FITTINGS	6/1/2012
US	9236768B2	SYSTEMS, METHODS, AND DEVICES FOR CONTROL OF PARALLEL UNINTERRUPTIBLE POWER SUPPLIES	1/31/2012
US	8830657	SWITCHBOARD AND METHOD OF MANUFACTURING SAME	2/1/2012



Country	Pat. / Appl. No.	Title	Appl. Date
US	9214874	INTELLIGENT LEVEL TRANSITION SYSTEMS AND METHODS FOR TRANSFORMERLESS UNINTERRUPTIBLE POWER SUPPLY	7/31/2012
US	8981954	METHODS, SYSTEMS, AND APPARATUS FOR PROTECTION SYSTEM ACTIVATION AND DYNAMIC LABELING	5/8/2012
US	9413178B2	CHARGING DEVICE AND METHOD OF DETECTING A CONNECTION TO GROUND	11/11/2011
US	8988175	OVERRIDE DEVICE FOR A CIRCUIT BREAKER AND METHODS OF OPERATING CIRCUIT BREAKER	1/26/2012
US	8717744	FUSE COVER	10/25/2011
US	9354257B2	SYSTEMS AND METHODS FOR USE IN MEASURING CURRENT THROUGH A CONDUCTOR	11/4/2011
US	8576546	FUSE ISOLATION SWITCH	9/6/2011
US	8681482B2	APPARATUS FOR ENCLOSING A SWITCHING ASSEMBLY IN AN AUTOMATIC TRANSFER SWITCH	1/19/2012
US	8792226	HEAT TRANSFER SYSTEM FOR USE WITH ELECTRICAL DEVICES AND METHOD OF OPERATING THE SAME	3/27/2012
US	8912461	ARC CHUTE ASSEMBLY AND METHOD OF MANUFACTURING SAME	1/23/2012
US	8791362	SHUTTER DOOR ASSEMBLY FOR AN ELECTRICAL PANEL	5/24/2012
US	9111670	CERAMIC, GRADED RESISTIVITY MONOLITH USING THE CERAMIC, AND METHOD OF MAKING	11/26/2012
US	9053888	TIE BAR FOR MOLDED CASE CIRCUIT BREAKER AND METHOD OF ASSEMBLY	7/10/2012
US	8542084	CIRCUIT PROTECTION DEVICE AND TRIP UNIT FOR USE WITH A CIRCUIT PROTECTION DEVICE	3/13/2012
US	8963662	ARC CHUTELESS DC CURRENT INTERRUPTOR	3/1/2013
US	9401251B2	MOLDED CASE CIRCUIT BREAKER	5/16/2012
US	9444233B2	METHODS, SYSTEMS, AND APPARATUS FOR AUTOMATED MAINTENANCE MODE SWITCHING	8/29/2012

Country	Pat. / Appl. No.	Title	Appl. Date
US	9030793	METHOD, DEVICE, AND SYSTEM FOR MONITORING CURRENT PROVIDED TO A LOAD	4/13/2012
US	9146278	SYSTEMS AND METHODS FOR MONITORING CIRCUIT BREAKER OPERATION	6/7/2013
US	13/963642	METHODS AND SYSTEMS FOR MONITORING DEVICES IN A POWER DISTRIBUTION SYSTEM	8/9/2013
US	8737030	POWER DISTRIBUTION SYSTEMS AND METHODS OF OPERATING A POWER DISTRIBUTION SYSTEM	9/14/2012
US	8724274	POWER DISTRIBUTION SYSTEMS AND METHODS OF OPERATING A POWER DISTRIBUTION SYSTEM	9/14/2012
US	9349560B2	LIMITER TYPE AIR CIRCUIT BREAKER WITH BLOW OPEN ARRANGEMENT	2/20/2014
US	8662940	ELECTRICAL CONNECTORS AND METHODS FOR COUPLING THE ELECTRICAL CONNECTORS TO BUSBARS	12/28/2011
US	9468083B2	PLASMA GENERATION DEVICE ASSEMBLY ARC MITIGATION DEVICE AND METHOD OF ASSEMBLING A PLASMA GENERATION DEVICE ASSEMBLY	10/30/2012
US	8981248	ARC MITIGATION ASSEMBLY AND METHOD OF ASSEMBLY TO AVOID GROUND STRIKE	12/7/2012
US	8993916	VARIABLE VENTING AND DAMPING ARC MITIGATION ASSEMBLIES AND METHODS OF ASSEMBLY	12/7/2012
US	9468084B2	PLASMA GENERATION DEVICE ASSEMBLY ARC MITIGATION DEVICE AND METHOD OF ASSEMBLING A PLASMA GENERATION DEVICE ASSEMBLY	10/30/2012
US	8471654	CIRCUIT PROTECTION DEVICE AND FLUX SHIFTER FOR A CIRCUIT PROTECTION DEVICE	10/25/2012
US	8717741	BUSBAR CONNECTION SYSTEM, SWITCHGEAR UNIT, AND METHOD OF TRANSPORTING SWITCHGEAR COMPONENTS	4/19/2012

Country	Pat. / Appl. No.	Title	Appl. Date
US	8921701	MODULAR INSULATOR FOR BUSBAR SUPPORT AND METHOD OF ASSEMBLING	9/4/2012
US	9413142B2	Panelboard stationary plenum	12/12/2012
US	9153948	SYSTEM AND METHOD FOR ACTUATION OF POWER PANEL	2/11/2013
US	9105415	RETAINING INSERT FOR AN ELECTRICAL PROTECTION SYSTEM AND METHOD	4/22/2013
US	9214797	APPARATUS, SYSTEMS, AND METHODS FOR OPERATION OF A TRIP UNIT IN A CIRCUIT PROTECTION DEVICE	2/13/2013
US	9368955B2	SYSTEM AND METHOD TO DERIVE POWER AND TRIP A CIRCUIT BREAKER FROM AN EXTERNAL DEVICE	2/14/2013
US	8810987	METHOD AND APPARATUS FOR POWER MANAGEMENT IN ETU WITHIN A CIRCUIT BREAKER WHEN USED AS A HOST CONTROLLER	10/19/2012
US	9404947B2	SYSTEMS AND METHODS FOR DETECTING POWER QUALITY OF UNINTERRUPTIBLE POWER SUPPLIES	8/31/2012
US	9054513	CIRCUIT PROTECTION DEVICE AND METHODS OF CONFIGURING A CIRCUIT PROTECTION DEVICE	10/17/2012
US	14/713725	CIRCUIT PROTECTION DEVICE AND METHODS OF CONFIGURING A CIRCUIT PROTECTION DEVICE	5/15/2015
US	9299522B2	SHUTTER LOCKING MECHANISM FOR CIRCUIT BREAKER ASSEMBLY	9/28/2012
US	9304168B2	METHODS AND APPARATUS FOR TESTING AN ELECTRONIC TRIP DEVICE	10/29/2012
US	9831675	SYSTEM FOR COMMON REDUNDANT BYPASS FEED PATHS IN UNINTERRUPTIBLE POWER SUPPLIES	12/27/2012
US	5877611	SIMPLE AND EFFICIENT SWITCHING REGULATOR FOR FAST TRANSIENT LOADS SUCH AS MICROPROCESSORS	10/8/1997
US	RE37738	SIMPLE AND EFFICIENT SWITCHING REGULATOR FOR FAST TRANSIENT LOADS SUCH AS MICROPROCESSORS	6/28/2000

Country	Pat. / Appl. No.	Title	Appl. Date
US	5917312	SYSTEM AND METHOD FOR VOLTAGE POSITIONING A REGULATOR AND REGULATOR EMPLOYING THE SAME	6/16/1998
US	5940287	CONTROLLER FOR A SYNCHRONOUS RECTIFIER AND POWER CONVERTER EMPLOYING THE SAME	7/14/1998
US	6134122	INTEGRATED VOLTAGE AND CURRENT MODE CONTROLLER FOR A POWER CONVERTER AND METHOD OF OPERATION THEREOF	1/15/1999
US	7432688	SOFT-TRANSITION CONTROLLER OF A SYNCHRONOUS CONVERTER	2/17/2006
US	8789856	APPARATUS AND METHOD FOR HOLDING A COVER IN A CLOSED ORIENTATION	12/4/2006
US	6060867	SWITCH DRIVER FOR A SNUBBER CIRCUIT, METHOD OF OPERATION THEREOF AND POWER CONVERTER EMPLOYING THE SAME	8/28/1998
US	6351396	METHOD AND APPARATUS FOR DYNAMICALLY ALTERING OPERATION OF A CONVERTER DEVICE TO IMPROVE CONVERSION EFFICIENCY	3/4/2000
US	6396725	SYSTEM AND METHOD FOR IMPROVING CONTROL LOOP RESPONSE OF A POWER SUPPLY	7/31/2000
US	8564976	INTERLEAVED LLC POWER CONVERTERS AND METHOD OF MANUFACTURE THEREOF	11/19/2008
US	8686592	SYSTEM AND METHOD FOR COMBINING THE OUTPUTS OF MULTIPLE, DISPARATE TYPES OF POWER SOURCES	7/7/2010
US	8427815	PLATFORM FOR A POWER DISTRIBUTION SYSTEM	5/7/2010
US	8797718	CABINET FOR A POWER DISTRIBUTION SYSTEM	3/8/2012
US	8797011	VARIABLE CURRENT LIMITER, A POWER SUPPLY AND A POINT OF LOAD CONVERTER EMPLOYING THE LIMITER AND A METHOD OF OPERATING A NON-ISOLATED VOLTAGE CONVERTER	12/13/2010

Country	Pat. / Appl. No.	Title	Appl. Date
US	8737024	SELF-ADJUSTABLE OVERCURRENT PROTECTION THRESHOLD CIRCUIT, A METHOD FOR GENERATING A COMPENSATED THRESHOLD SIGNAL AND A POWER SUPPLY EMPLOYING THE CIRCUIT OR METHOD	2/25/2011
US	8829865	POWER FACTOR CORRECTION EFFICIENCY IMPROVEMENT CIRCUIT, A CONVERTER EMPLOYING THE CIRCUIT AND A METHOD OF MANUFACTURING A CONVERTER	7/5/2011
US	9093859	DC POWER SYSTEM HAVING A POWER ARCHITECTURE FOR OPTIMIZING EFFICIENCY AND A SYSTEM CONTROLLER OF THE SYSTEM	7/28/2011
US	8547711	LLC CONVERTER ACTIVE SNUBBER CIRCUIT AND METHOD OF OPERATION THEREOF	11/19/2010
US	9083242	INTERLEAVED LLC CONVERTER EMPLOYING ACTIVE BALANCING	8/26/2011
US	6104584	VOLTAGE FEEDBACK INRUSH CURRENT LIMIT CIRCUIT HAVING INCREASED TOLERANCE FOR COMPONENT VALUE VARIATION	2/18/1999
US	6218891	INTEGRATED CIRCUIT INCLUDING A DRIVER FOR A METAL-SEMICONDUCTOR FIELD-EFFECT TRANSISTOR	7/28/2000
US	6191564	POWER FACTOR CORRECTING ELECTRICAL CONVERTER APPARATUS	11/24/1999
US	6169671	SNUBBER CIRCUIT FOR A POWER SWITCH AND RECTIFYING DIODE AND POWER CONVERTER EMPLOYING THE SAME	4/21/2000
US	6124701	SYSTEM AND METHOD FOR DETERMINING BATTERY CONDITION AND TELECOMMUNICATIONS EQUIPMENT INCORPORATING THE SAME	6/22/1999
US	6118680	METHODS AND APPARATUS FOR LOAD SHARING BETWEEN PARALLEL INVERTERS IN AN AC POWER SUPPLY	5/28/1999

Country	Pat. / Appl. No.	Title	Appl. Date
US	6693811	INTEGRATED CONTROLLER, METHOD OF OPERATION THEREOF AND POWER SUPPLY EMPLOYING THE SAME	7/2/2002
US	7095638	CONTROLLER FOR COMPLEMENTARY SWITCHES OF A POWER CONVERTER AND METHOD OF OPERATION THEREOF	9/3/2003
US	14/350697	VACUUM CIRCUIT BREAKER ASSEMBLY	4/9/2014
US	9697992	SYSTEM AND APPARATUS FOR ARC ELIMINATION	2/19/2014
US	9431782B2	CURRENT CARRYING SYSTEMS AND METHODS OF ASSEMBLING THE SAME	2/25/2014
US	15/235222	Thermally effective profile busbar passive cooling system	8/12/2016
US	9871331	MODULAR SWITCHGEAR CONNECTION AND METHOD OF ELECTRICALLY CONNECTING A MODULAR COMPARTMENT	7/27/2015
US	9184013	CONDUCTOR GUIDE MEMBER FOR A CIRCUIT BREAKER TERMINAL ASSEMBLY	6/21/2013
US	9576750	CONDUCTOR GUIDE MEMBER FOR A CIRCUIT BREAKER TERMINAL ASSEMBLY	6/25/2015
US	9391432B2	POWER TRANSMISSION ASSEMBLY	8/7/2013
US	9184014	ELECTRICAL OPERATOR FOR CIRCUIT BREAKER AND METHOD THEREOF	2/1/2013
US	9129760	SHUTTER SYSTEM FOR A SWITCHGEAR COMPARTMENT AND METHOD OF MANIPULATING A SHUTTER SYSTEM	1/7/2013
US	9595404	ELECTRICAL SWITCHING APPARATUS INCLUDING AN ADJUSTABLE DAMPER ASSEMBLY	1/19/2016
US	9368295B2	ELECTRICAL TRANSFER SWITCH SYSTEM	2/27/2014
US	9347513B2	HYDRAULIC DAMPER FOR ELECTRICAL SWITCHING APPARATUS AND METHOD	6/12/2014

Country	Pat. / Appl. No.	Title	Appl. Date
US	9488714B2	METHODS AND SYSTEMS FOR CONTINUOUS CALIBRATION OF CIRCUIT BREAKER TRIP UNITS AND METERING DEVICES	3/15/2013
US	9325167B2	METHOD, SYSTEM, AND APPARATUS FOR PROVIDING ARC FLASH MITIGATION	6/19/2014
US	9638733	COMPUTING DEVICE AND METHODS OF DETECTING THERMAL HOTSPOTS IN A POWER DISTRIBUTION SYSTEM	12/13/2013
US	9171665	INTEGRATED INDUCTOR ASSEMBLIES AND METHODS OF ASSEMBLING SAME	3/4/2014
US	9093825	Panelboard insulated moveable barrier	12/12/2012
US	9472925B2	SWITCHGEAR HOUSING INCLUDING A PRESSURE RELIEF MEMBER	4/23/2014
US	9479848B2	SYSTEM AND METHOD FOR MONITORING CHARACTERISTICS OF AN ELECTRICAL DEVICE	11/8/2013
US	9231486B2	SYSTEM AND METHOD FOR INFORMATION COMMUNICATION BETWEEN ELECTRICALLY ISOLATED CIRCUITS	3/5/2013
US	9373964B2	OPTIMIZED CONTROL OF A POWER CONVERTER IN RESPONSE TO LOAD CONDITIONS	3/5/2013
US	9608513	METHODS AND SYSTEMS FOR IMPROVING LOAD TRANSIENT RESPONSE IN LLC CONVERTERS	3/5/2014
US	9520790B2	INTERLEAVED LLC CONVERTERS AND CURRENT SHARING METHOD THEREOF	3/12/2014
US	9548670	METHODS AND SYSTEMS FOR CALIBRATING A RESONANT CONVERTER	2/25/2014
US	9178359	POWER CONVERTER OPERABLE FROM VARIOUS POWER SOURCES	3/6/2013
US	14/206560	INTEGRATED MAGNETIC ASSEMBLIES AND METHODS OF ASSEMBLING SAME	3/12/2014
US	9053845	TRANSFORMER WITH PLANAR PRIMARY WINDING	3/15/2013
US	9438027B2	SYSTEMS AND METHODS FOR POWER INTERRUPTION	3/15/2013



Country	Pat. / Appl. No.	Title	Appl. Date
US	9350175B2	AN INPUT RELAY ARCHITECTURE FOR RECTIFYING POWER CONVERTERS AND SUITABLE FOR AC OR DC SOURCE POWER	3/5/2013
US	9685768	SPOUT FOR SWITCHGEAR, SWITCHGEAR HAVING SPOUT, AND METHOD THEREOF	6/3/2014
US	15/485484	SPOUT FOR SWITCHGEAR, SWITCHGEAR HAVING SPOUT, AND METHOD THEREOF	4/12/2017
US	9208962	CIRCUIT BREAKER INCLUDING AN ANTIREBOUND SYSTEM ANTIREBOUND SYSTEM FOR A CIRCUIT BREAKER AND METHOD	11/26/2013
US	9722421	DC Plant Controller And Method For Selecting Among Multiple Sources	5/1/2012
US	9722422	DC PLANT FOR SELECTING AMONG MULTIPLE SOURCES	5/1/2012
US	8384483	HIGH EFFICIENCY POWER AMPLIFIER POWER ARCHITECTURE	4/30/2012
US	8647159	APPARATUS AND METHOD FOR EFFECTING ELECTRICAL TERMINATION WITH A PLURALITY OF TYPES OF TERMINATION STRUCTURES	2/28/2011
US	8836164	POLYPHASE POWER MANAGEMENT SYSTEM FOR TELECOMMUNICATIONS EQUIPMENT SITE POWER PLANT AND METHOD OF OPERATION THEREOF	12/7/2011
US	8816649	HYBRID ARCHITECTURE FOR DC POWER PLANTS WITH A CONTROLLER FOR PROVIDING REDUNDANT RECHARGE CAPABILITIES	4/13/2011
US	9007793	SYNCHRONOUS RECTIFIER DRIVER CIRCUIT RECTIFIER	5/1/2012
US	13/363573	LITHIUM BATTERY PROTECTIVE ENCLOSURE	2/1/2012
US	8929106	MONOTONIC PRE-BIAS START-UP OF A DC-DC CONVERTER	5/17/2012
US	9291683B2	POWER MODULE PROTECTION AT STARTUP	10/11/2012

Country	Pat. / Appl. No.	Title	Appl. Date
US	8743566	SYSTEM AND METHOD FOR INCREASING DC POWER SYSTEM EFFICIENCY WITHOUT REQUIRING A LARGE BATTERY RESERVE	1/26/2012
US	8792254	MULTILEVEL POWER CONVERTER AND METHODS OF MANUFACTURING AND OPERATION THEREOF	6/28/2011
US	8681513	OPTIMIZATION OF A POWER CONVERTER EMPLOYING AN LLC CONVERTER	6/28/2011
US	9397462B2	RAIL MOUNTING SYSTEM AND DETACHING METHOD	3/15/2013
US	8913406	PARALLELED POWER CONVERTERS WITH AUTO STAGGER START UP	6/8/2012
US	9106129	SELF-DRIVEN SYNCHRONOUS RECTIFIER DRIVE CIRCUIT, METHOD OF OPERATION THEREOF AND POWER CONVERTER INCORPORATING THE SAME	2/24/2012
US	8917524	MULTI-FUNCTION INDUCTOR AND MANUFACTURE THEREOF	2/6/2012
US	9426901B2	PATTERNING METHOD AND APPARATUS FOR COMPONENT BOARDS	10/12/2012
US	15/231392	STENCIL SET AND SYSTEM FOR PRINTING SOLDER PASTE FOR PRINTED CIRCUIT BOARDS	8/8/2016
US	9320151B2	PROTECTIVE SLEEVE FOR ELECTRICAL COMPONENTS	10/17/2012
US	9236804B2	Regulated Converter With Self Adjusting Output Set Point Control	12/25/2012
US	9281753B2	LLC Converter With Dynamic Gain Transformation for Wide Input and Output Range	7/31/2012
US	8971074	A Bias Supply A Power Supply And A Method Of Using Bias Supply Voltage Levels To Signal Information Across An Isolation Boundary	1/4/2012
US	D702197	FACEPLATE V2 FOR USE WITH AN ELECTRICAL COMPONENT	3/15/2013
US	D702650	FACEPLATE V3 FOR USE WITH AN ELECTRICAL COMPONENT	3/15/2013
US	D702651	FACEPLATE V4 FOR USE WITH AN ELECTRICAL COMPONENT	3/15/2013

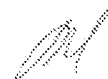
Country	Pat. / Appl. No.	Title	Appl. Date
US	D702652	FACEPLATE FOR USE WITH AN ELECTRICAL COMPONENT	3/15/2013
US	9398715B2	ELECTRONIC MODULE SHELF ASSEMBLY AND METHODS	3/15/2013
US	9398701B2	COMPONENT HOLDING STRUCTURES SYSTEM AND METHOD	10/23/2013
US	9882424	REDUNDANT UNINTERRUPTIBLE POWER	2/21/2014
US	9491895B2	A POWER DISTRIBUTION RACK BUS BAR ASSEMBLY AND METHOD OF ASSEMBLING THE SAME	12/10/2013
US	14/195594	POWER CONVERTER AND METHODS FOR INCREASING POWER DELIVERY OF SOFT ALTERNATING CURRENT POWER SOURCE	3/3/2014
US	9548871	SYSTEMS AND METHODS FOR MASTER ARBITRATION	3/4/2014
US	8970339	INTEGRATED MAGNETIC ASSEMBLIES AND METHODS OF ASSEMBLING SAME	3/15/2013
US	9171667	MAGNETIC DEVICE HAVING INTEGRATED CURRENT SENSING ELEMENT AND METHODS OF ASSEMBLING SAME	3/18/2014
US	9035736	MAGNETIC DEVICE HAVING INTEGRATED CURRENT SENSING ELEMENT AND METHODS OF ASSEMBLING SAME	6/16/2014
US	9490634B2	POWER DISTRIBUTION SYSTEM USING MULTIPLE POWER MODULES, AND METHOD	11/25/2014
US	9640315	LOW STRAYLOSS TRANSFORMERS AND METHODS OF ASSEMBLING THE SAME	5/13/2013
US	15/583653	Ultra low stray losses transformer	5/1/2017
US	9362075B2	COVER ASSEMBLY FOR CIRCUIT BREAKER CIRCUIT BREAKER HAVING THE SAME AND METHOD	12/3/2013
US	9479011B2	METHOD AND SYSTEM FOR A DUAL CONVERSION UNINTERRUPTIBLE POWER SUPPLY	12/5/2013
US	9685860	BUCK-BOOST CONVERTER AND METHOD FOR REGULATION	11/7/2014
US	9595878	DRIVE CIRCUIT FOR SYNCHRONOUS RECTIFIER AND METHOD THEREOF	10/15/2014

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US	9406470B2	TRISTABLE FLEXURE MECHANISM	2/18/2014
US	9412549B2	ELECTROMAGNETICALLY ENHANCED CONTACT SEPARATION IN A CIRCUIT BREAKER	2/18/2014
US	9692223	POWER DISTRIBUTION SYSTEMS AND METHODS OF TESTING A POWER DISTRIBUTION SYSTEM	10/31/2013
US	14/301516	SYSTEMS AND METHODS FOR MULTI-USE MULTI-MODE UPS	6/11/2014
US	14/301518	Control system for multi-mode UPS	6/11/2014
US	14/571739	MONOLITHIC CONTACT SYSTEM AND METHOD OF FORMING	12/16/2014
US	14/799401	SYSTEM AND METHOD FOR CONTROLLING DYNAMIC OUTPUT IMPEDANCE OF AN INVERTER	7/14/2015
US	9455564B2	CURRENT AND VOLTAGE MODULE AND METHODS OF MONITORING CURRENT AND VOLTAGE IN POWER DISTRIBUTION SYSTEMS	2/21/2014
US	9685820	REDUNDANT UNINTERRUPTIBLE POWER SUPPLY SYSTEMS	6/17/2014
US	9355798B2	SYSTEM AND METHOD FOR QUENCHING AN ARC	8/21/2014
US	9728955	ZONE SELECTIVE INTERLOCKING ZSI POWER DISTRIBUTION SYSTEMS AND METHODS OF OPERATING A ZSI POWER DISTRIBUTION SYSTEM	12/11/2013
US	9595799	ELECTRICAL ENCLOSURE HAVING A DUAL BUS BAR AND A COMPONENT WITH A DUAL BUS BAR CONNECTOR	3/13/2014
US	9577412	SWITCHGEAR HOUSING INCLUDING A FLOATING EXHAUST FLAP ASSEMBLY	6/24/2014
US	9583920	INTERLOCK SYSTEM FOR A SHUTTER SEPARATING A BUS BAR PORTION FROM AN ELECTRICAL COMPONENT	3/17/2015
US	9444234B2	SWITCHGEAR INCLUDING A WITHDRAWABLE SWITCHGEAR UNIT HAVING A BLOCKING MECHANISM	5/28/2014
US	9325158B2	ELECTRICAL ENCLOSURE INCLUDING AN INTEGRATED DEAD FRONT AND DOOR	3/13/2014

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US	9622374	ELECTRICAL EQUIPMENT AND A METHOD OF MANUFACTURING	7/31/2015
US	9831717	SYSTEMS AND METHODS FOR OPERATING UNINTERRUPTIBLE POWER SUPPLIES	9/16/2015
US	9723742	INTEGRATED POWER RACKS AND METHODS OF ASSEMBLING THE SAME	4/14/2014
US	9696349	A CURRENT SENSING SYSTEM	6/26/2014
US	9705360	REDUNDANT UNINTERRUPTIBLE POWER SUPPLY SYSTEMS	6/17/2014
US	14/447189	SYSTEMS AND METHODS FOR SINGLE ACTIVE BRIDGE CONVERTERS	7/30/2014
US	9746305	UNEVEN SURFACE DEFLECTION AND AMPLITUDE MEASUREMENT TOOL	10/8/2014
US	9748763	CIRCUIT PROTECTION DEVICES AND METHODS OF MONITORING PROTECTION DEVICES IN A POWER DISTRIBUTION SYSTEM	11/4/2014
US	14/327171	UNINTERRUPTIBLE POWER SUPPLY AND METHOD OF OPERATION	7/9/2014
US	9307615B2	FIELD SELECTABLE CONTACTOR CONTROL MODULES	7/17/2014
US	9870890	LOAD CENTER WITH PLUG-IN NEUTRAL	1/27/2015
US	14/972486	CONTACT ARMS FOR USE IN ELECTRICAL SWITCHGEAR AND METHODS OF FABRICATING SAME	12/17/2015
US	9488689B2	SYSTEMS AND METHODS FOR IDENTIFYING FAULT LOCATION USING DISTRIBUTED COMMUNICATION	8/28/2014
US	9837812	POWER DISTRIBUTION SYSTEMS AND METHODS OF OPERATING POWER DISTRIBUTION SYSTEMS WITH PARTIAL DIFFERENTIAL PROTECTION	11/20/2014
US	9564751	ZONE SELECTIVE INTERLOCKING AND CIRCUIT PROTECTION DEVICE MONITORING IN A POWER DISTRIBUTION SYSTEM	11/14/2014
US	9324528B1	MAGNETIC TRIP MECHANISM FOR CIRCUIT BREAKER	11/17/2014

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US	9735616	SYSTEMS AND METHODS FOR PROVIDING INCREASED FAULT CURRENT CAPABILITY IN UNINTERRUPTIBLE POWER SUPPLY SYSTEMS	3/6/2015
US	9729055	SYSTEMS AND METHODS OF INCREASING POWER CONVERTER EFFICIENCY	3/10/2015
US	9374001B1	METHODS AND SYSTEMS FOR IMPROVING LOAD TRANSIENT RESPONSE IN POWER CONVERSION SYSTEMS	2/3/2015
US	9786457	SYSTEMS AND METHODS FOR FREEWHEEL CONTACTOR CIRCUITS	1/14/2015
US	9852851	MOLDED CASE CIRCUIT BREAKER WITH CURRENT SENSING UNIT	10/21/2014
US	9374926B1	SYSTEMS AND METHODS FOR POWER CONVERSION AND DISTRIBUTION	1/16/2015
US	14/964640	SWITCH CABINETS FOR USE IN ELECTRICAL SWITCHGEAR AND METHODS OF ASSEMBLING THE SAME	12/10/2015
US	9461446B1	ELECTRICAL ENCLOSURE HAVING A BREAKER COVER GASKET AND METHOD	3/30/2015
US	9857812	SYSTEMS AND METHODS FOR ADVANCED DIAGNOSTIC IN MODULAR POWER CONVERTERS	12/1/2014
US	14/888943	CIRCUIT BREAKER HAVING A FLOATING MOVEABLE CONTACT	11/4/2015
US	9746502	SYSTEMS AND METHODS OF MONITORING A POWER SYSTEM POWER CONVERTER	2/5/2015
US	9844136	PRINTED CIRCUIT BOARDS HAVING PROFILED CONDUCTIVE LAYER AND METHODS OF MANUFACTURING SAME	12/1/2014
US	14/568817	SYSTEMS AND METHODS FOR EXPLOITING CURRENT CAPABILITY IN STATIC UPS	12/12/2014
US	14/568632	SYSTEMS AND METHODS FOR HYBRID VOLTAGE AND CURRENT CONTROL IN STATIC UPS SYSTEMS	12/12/2014

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US	9735615	SYSTEMS AND METHODS FOR MANAGING POWER BACKFEED IN UNINTERRUPTIBLE POWER SUPPLY SYSTEMS	1/8/2015
US	9704684	CIRCUIT BREAKER CROSSBAR ASSEMBLY	9/18/2015
US	14/626154	EXHAUST SYSTEM FOR SWITCHGEAR ENCLOSURE, AND SWITCHGEAR ENCLOSURE HAVING THE SAME	2/19/2015
US	9768593	INTRA-COMPARTMENT COOLING CHANNEL COMPONENT FOR A METAL-CLAD SWITCHGEAR ASSEMBLY	2/23/2016
US	9865405	FIXED CONTACT FOR JOINING A BUS BAR AND A SLIDING CONTACT OF AN ELECTRICAL SWITCHGEAR	2/3/2015
US	D803790	CIRCUIT BREAKER	3/6/2015
US	29/621654	CIRCUIT BREAKER	10/10/2017
US	9859752	UNINTERRUPTIBLE POWER SUPPLY AND METHOD OF USE	6/5/2015
US	14/884275	DIRECT CURRENT POWER DISTRIBUTION AND CONVERSION SYSTEM	10/15/2015
US	9870878	INFORMATION DISPLAY SYSTEM FOR SWITCHING DEVICE, SWITCHING DEVICE, AND METHOD	3/1/2016
US	9786447	MOUNTING ASSEMBLY FOR A CIRCUIT BREAKER MECHANISM	1/8/2015
US	14/640390	INFORMATION DISPLAY SYSTEM FOR SWITCHING DEVICE, SWITCHING DEVICE, AND METHOD	3/6/2015
US	9859716	HYBRID AC AND DC DISTRIBUTION SYSTEM AND METHOD OF USE	5/29/2015
US	15/042198	CIRCUIT BREAKER CROSSBAR ASSEMBLY AND METHOD	2/12/2016
US	9653896	ELECTRICAL ENCLOSURE INCLUDING AN INTEGRAL EXHAUST DUCT AND METHOD	3/30/2015
US	9660439	DIRECT CURRENT POWER DISTRIBUTION AND PROTECTION SYSTEM	6/5/2015
US	14/970769	HIGH-SPEED COMMUNICATIONS COUPLING FOR USE IN A CIRCUIT BREAKER ASSEMBLY	12/16/2015



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US	14/673059	ELECTRICAL ENCLOSURE INCLUDING A SELECTIVELY CLOSEABLE VENTILATION OPENING AND METHOD	3/30/2015
US	9787091	SYSTEMS AND METHODS FOR CONTROLLING A POWER CONVERSION SYSTEM	9/16/2015
US	15041971	CIRCUIT BREAKER ASSEMBLY INCLUDING A CIRCUIT BREAKER CONNECTOR	2/11/2016
US	15/044353	FILTER ASSEMBLY FOR A CIRCUIT BREAKER ARC CHAMBER	2/16/2016
US	9742164	SECONDARY DISCONNECT ASSEMBLY, SWITCHING DEVICE SYSTEM HAVING SECONDARY DISCONNECT ASSEMBLY, AND METHOD	6/16/2015
US	9692224	POWER DISTRIBUTION SYSTEMS AND METHODS OF MONITORING ZONE SELECTIVE INTERLOCKING IN A POWER DISTRIBUTION SYSTEM	6/15/2015
US	9576753	MOVEABLE CONTACT ARM RELEASES LATCH PLATE ENGAGEMENT IN A CIRCUIT BREAKER	6/16/2015
US	9552950	RETAINING ASSEMBLY FOR A CIRCUIT BREAKER CONTACT SYSTEM	6/11/2015
US	14/842958	OVER-CURRENT PROTECTION ASSEMBLY	9/2/2015
US	14/788471	CIRCUIT BREAKER HAVING BREAKER INFORMATION MODULE AND METHOD OF USE	6/30/2015
US	14/823154	SYSTEMS AND METHODS FOR IMPLEMENTING SERIES COMPENSATORS IN STATIC UPS	8/11/2015
US	9576761	Circuit Breaker Crossbar Assembly	5/20/2015
US	14/986135	GuardEon Power Panel NPI	12/31/2015
US	14/986120	ELECTRICAL DEVICE, ELECTRICAL DISTRIBUTION SYSTEM, AND METHODS OF ASSEMBLING SAME	12/31/2015
US	9842712	SWITCHING DEVICE HAVING TERMINAL COVER, AND METHOD	2/26/2016
US	9842708	CIRCUIT BREAKER INCLUDING ROTOR ASSEMBLY	6/3/2016

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US	9843174	RACKING INTERLOCKING SYSTEMS FOR WITHDRAWABLE CIRCUIT BREAKERS	3/9/2016
US	15/054131	SYSTEM AND METHOD FOR REGULATING VOLTAGE IN A LOW VOLTAGE POWER DISTRIBUTION SYSTEM	2/26/2016
US	9882366	ELECTRICAL BUSWAY JOINT WITH SELF-ADJUSTING BRACES	1/7/2016
US	9705299	ELECTRICAL BUSWAY JOINT WITH EXTERNAL VISE BRACES	1/7/2016
US	9705300	ELECTRICAL BUSWAY JOINT WITH LAMINATED BRACING SYSTEM	1/7/2016
US	9590405	ELECTRICAL BUSWAY JOINT WITH LENGTH ADJUSTMENT ASSEMBLY	1/7/2016
US	14/823233	PROTECTION METHODS AND SWITCHES IN UNINTERRUPTIBLE POWER SUPPLY SYSTEMS	8/11/2015
US	15/437945	EMBEDDED POLE AND METHOD OF ASSEMBLING SAME	2/21/2017
US	9590406	ADJUSTABLE ELECTRICAL BUSWAY JOINT WITH FORKED BUSBARS	1/7/2016
US	15/188681	PRINTED CIRCUIT BOARD INCLUDING A THICK-WALL VIA AND METHOD OF MANUFACTURING SAME	6/21/2016
US	15/435263	SWITCHGEAR ENCLOSURE WITH INTERCONNECTED EXHAUST SYSTEM	2/16/2017
US	15/409596	EMBEDDED POLE AND METHODS OF ASSEMBLING SAME	1/19/2017
US	15/075379	LATCH-FREE CIRCUIT BREAKERS	3/21/2016
US	15/082585	CIRCUIT BREAKER INCLUDING END COVERS	3/28/2016
US	15/066133	DFIG-BASED UPS SYSTEMS AND METHODS OF CONTROL	3/10/2016
US	15/132755	DEVICES, SYSTEMS, AND METHODS FOR PROTECTION OF SWITCHGEAR AGAINST ELECTRICAL ARCS	4/19/2016
US	15/075540	LATCH-FREE ACTUATORS	3/21/2016
US	15/092905	SELF-RESETTING BIASING DEVICES FOR CURRENT LIMITING CIRCUIT BREAKER TRIP SYSTEMS	4/7/2016
US	15/263841	ISOLATED PARALLEL UPS SYSTEM WITH CHOKE BYPASS SWITCH	9/13/2016

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US	15/050941	SHUTTER INTERLOCK DEVICES, SYSTEMS, AND METHODS OF USE THEREOF	2/23/2016
US	15/216393	THERMAL COOLING INTERFACE FOR ELECTRICAL JOINTS	7/21/2016
US	15/263821	ISOLATED PARALLEL UPS SYSTEM WITH FAULT LOCATION DETECTION	9/13/2016
US	15/290488	POWER CONNECTOR FOR ELECTRONIC EQUIPMENT SUPPORTED BY A RACK ASSEMBLY	10/11/2016
US	15/332642	CIRCUIT BREAKER INCLUDING ROTARY HANDLE	10/24/2016
US	15/332678	CIRCUIT BREAKER INCLUDING ROTARY HANDLE	10/24/2016
US	15/252792	ELECTRICAL DISTRIBUTION APPARATUS AND METHODS OF ASSEMBLING SAME	8/31/2016
US	15/252904	ELECTRICAL DISTRIBUTION APPARATUS AND METHODS OF ASSEMBLING SAME	8/31/2016
US	15/402428	ELECTRICAL DISTRIBUTION APPARATUS INCLUDING BARRIER AND METHODS OF ASSEMBLING SAME	1/10/2017
US	15/402441	ELECTRICAL DISTRIBUTION APPARATUS INCLUDING BARRIER AND METHODS OF ASSEMBLING SAME	1/10/2017
US	9843124	ELECTRICAL DISTRIBUTION APPARATUS INCLUDING BARRIER AND METHODS OF ASSEMBLING SAME	1/10/2017
US	15/402453	ELECTRICAL DISTRIBUTION APPARATUS INCLUDING BARRIER AND METHODS OF ASSEMBLING SAME	1/10/2017
US	6950725	HOME LATCH-KEY WEB BASED AUTOMATION SYSTEM	12/7/2001
US	6242703	BELL ALARM WITH AUTOMATIC RESET FOR SMALL FRAME AIR CIRCUIT BREAKER	1/14/1998
US	6097192	METHOD FOR INITIALIZING SHORT TIME AND GROUNDFAULT PROTECTION HEAT INDEX ACCUMULATORS IN A TRIP UNIT	3/5/1998

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US	6002561	ARCING FAULT DETECTION MODULE	1/14/1998
US	6268989	RESIDENTIAL LOAD CENTER WITH ARCING FAULT PROTECTION	12/11/1998
US	6356426	RESIDENTIAL CIRCUIT BREAKER WITH SELECTABLE CURRENT SETTING, LOAD CONTROL AND POWER LINE CARRIER SIGNALING	7/19/1999
US	5933306	CIRCUIT BREAKER WITH GROUND FAULT DETECTION MODULE	1/14/1998
US	6403902	CIRCUIT BREAKER BELL ALARM ACCESSORY HAVING OPTIONAL RESET AND LOCKOUT FUNCTION	1/14/1998
US	6361205	METHOD OF DETERMINING CONTACT WEAR IN A TRIP UNIT	2/21/2001
US	6466023	METHOD OF DETERMINING CONTACT WEAR IN A TRIP UNIT	2/7/2001
US	6078489	METHOD FOR PERFORMING INSTANTANEOUS PROTECTION IN A TRIP UNIT	8/20/1998
US	6069544	CIRCUIT BREAKER OPERATING MECHANISM HAVING A COLLAPSIBLE CONTACT ARM LINKAGE ASSEMBLY	10/22/1998
US	5936535	CIRCUIT BREAKER BELL ALARM ACCESSORY	5/29/1998
US	6091044	SYSTEM FOR MONITORING AND CONTROLLING A WELDING/BRAZING OPERATION	12/3/1998
US	6239962	ARC FAULT CIRCUIT BREAKER	2/9/1999
US	6064018	MOLDED CASE CIRCUIT BREAKER MOLDED POLE ASSEMBLY	10/23/1998
US	6657837	CIRCUIT BREAKER INCORPORATING FAULT LOCKOUT PROTECTION	12/29/1999
US	6992872	CIRCUIT BREAKER INCORPORATING FAULT LOCKOUT PROTECTION	10/10/2001
US	5978209	LOCK-DOWN DEVICE FOR A CIRCUIT BREAKER ASSEMBLY AND ASSEMBLY INCORPORATING SAME	8/14/1998
US	6137070	CIRCUIT BREAKER ASSEMBLY WITH INHIBITOR ASSEMBLY	7/1/1998
US	6180897	CIRCUIT BREAKER ASSEMBLY WITH INHIBITOR ASSEMBLY	5/5/2000
US	6252165	ENCLOSURE AND METHOD OF MAKING SAME	5/5/2000

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US	6416702	METHOD OF MOLDING A SADDLE ASSEMBLY FOR CIRCUIT BREAKERS	5/5/2000
US	6036542	SADDLE ASSEMBLY FOR A CIRCUIT BREAKER	7/1/1998
US	6259340	CIRCUIT BREAKER WITH A DUAL TEST BUTTON MECHANISM	5/10/1999
US	6087913	CIRCUIT BREAKER MECHANISM FOR A ROTARY CONTACT SYSTEM	11/20/1998
US	6037555	ROTARY CONTACT CIRCUIT BREAKER VENTING ARRANGEMENT INCLUDING CURRENT TRANSFORMER	1/5/1999
US	6400543	ELECTRONIC TRIP UNIT WITH USER-ADJUSTABLE SENSITIVITY TO CURRENT SPIKES	7/9/2001
US	6234851	STAB CONNECTOR ASSEMBLY	11/9/1999
US	6379196	TERMINAL CONNECTOR FOR A CIRCUIT BREAKER	3/1/2000
US	6015957	HIGH AMPACITY PINLESS CONDUCTING JOINT IN MOVABLE CONTACT ARM ASSEMBLY	12/31/1998
US	6104266	CIRCUIT BREAKER WITH TRIP INDICATION ARRANGEMENT	6/2/1999
US	6448521	BLOCKING APPARATUS FOR CIRCUIT BREAKER CONTACT STRUCTURE	3/1/2000
US	6280216	LUG ADAPTER ASSEMBLY HAVING REDUCED FORCE CLIPS	11/9/1999
US	6323448	CIRCUIT BREAKER STAB CONTACT ASSEMBLY WITH SPRING CLIP	12/22/1999
US	6437261	INTERLOCK FOR USE IN AN ELECTRIC MOTOR HANDLE AND CONTACTOR COMBINATION	12/7/1998
US	6310307	CIRCUIT BREAKER ROTARY CONTACT ARM ARRANGEMENT	12/17/1999
US	6329598	WATER-RESISTANT BUSWAY WITH WATER DRAINAGE DUCT	8/27/1999
US	6255923	ARC FAULT CIRCUIT BREAKER	6/25/1999
US	6232857	ARC FAULT CIRCUIT BREAKER	9/16/1999
US	6175288	SUPPLEMENTAL TRIP UNIT FOR ROTARY CIRCUIT INTERRUPTERS	8/27/1999
US	6229413	SUPPORT OF STATIONARY CONDUCTORS FOR A CIRCUIT BREAKER	10/19/1999



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US	6346869	RATING PLUG FOR CIRCUIT BREAKERS	12/28/1999
US	6215379	SHUNT FOR INDIRECTLY HEATED BIMETALLIC STRIP	12/23/1999
US	6229692	MODULAR CIRCUIT BREAKER AND MODULAR LIGHTING PANELBOARD FOR FIELD ASSEMBLY	6/30/1999
US	6433999	BUS CONNECTION ACCESS PANEL	7/31/2001
US	6087602	MOTOR CONTROL CENTER CIRCUIT BREAKER ASSEMBLY	7/2/1999
US	6222147	CIRCUIT BREAKER ARC EXHAUST BAFFLE WITH VARIABLE APERTURE	3/9/2000
US	6539271	QUALITY MANAGEMENT SYSTEM WITH HUMAN-MACHINE INTERFACE FOR INDUSTRIAL AUTOMATION	12/27/2000
US	6920495	METHOD AND SYSTEM FOR FACILITATING WEB-BASED INFORMATION EXCHANGE VIA A CENTRALIZED WEB STRUCTURE FOR MANAGING PROJECTS AND FUNDING REQUESTS	8/31/2000
US	6301094	DRAWOUT UNIT AND LOAD/LINE TERMINAL ASSEMBLY	3/31/2000
US	6266713	FIELD UPGRADEABLE DYNAMIC DATA EXCHANGER SERVER	9/24/1999
US	6788508	COMPACT LOW AMP ELECTRONIC CIRCUIT BREAKER OR RESIDENTIAL LOAD CENTER	11/6/2001
US	6313981	BUS BAR CONNECTION ASSEMBLY	11/30/1999
US	6211758	CIRCUIT BREAKER ACCESSORY GAP CONTROL MECHANISM	1/11/2000
US	6346868	CIRCUIT INTERRUPTER OPERATING MECHANISM	3/1/2000
US	6700467	CIRCUIT INTERRUPTER OPERATING MECHANISM	9/20/2001
US	6466117	CIRCUIT INTERRUPTER OPERATING MECHANISM	9/20/2001
US	6211757	FAST ACTING HIGH FORCE TRIP ACTUATOR	3/6/2000
US	6473281	AUTOMATIC PROTECTION DEVICE WITH GROUND FAULT ANNUNCIATION	8/17/2000
US	6459349	CIRCUIT BREAKER COMPRISING A CURRENT TRANSFORMER WITH A PARTIAL AIR GAP	3/6/2000

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US	6424519	PLUG-IN DRAW OUT UNIT	4/4/2001
US	6457924	SNAP-IN FASTENER	5/31/2000
US	6366188	ACCESSORY AND RECESS IDENTIFICATION SYSTEM FOR CIRCUIT BREAKERS	3/15/2000
US	6556404	SELF POWERED COOLING FAN AND METHOD	5/16/2001
US	6628184	FIELD CONFIGURABLE CONTACTS AND CONTACTOR	11/20/2000
US	6730845	ELECTRIC COMPONENT BOX WITH REMOVABLE COVER	5/18/2000
US	6262644	LATCH RESETTING ARRANGEMENT	3/8/2000
US	6421217	CIRCUIT BREAKER ACCESSORY RESET SYSTEM	3/16/2000
US	6459059	RETURN SPRING FOR A CIRCUIT INTERRUPTER OPERATING MECHANISM	3/16/2000
US	6340925	CIRCUIT BREAKER MECHANISM TRIPPING CAM	7/14/2000
US	6590482	CIRCUIT BREAKER MECHANISM TRIPPING CAM	8/3/2001
US	6479774	HIGH ENERGY CLOSING MECHANISM FOR CIRCUIT BREAKERS	10/10/2000
US	6586693	SELF COMPENSATING LATCH ARRANGEMENT	11/30/2000
US	6535370	APPARATUS AND METHOD FOR REPRESENTING PROTECTION DEVICE TRIP RESPONSE	8/30/2000
US	6721154	APPARATUS AND METHOD FOR REPRESENTING PROTECTION DEVICE TRIP RESPONSE	12/13/2002
US	6373357	PRESSURE SENSITIVE TRIP MECHANISM FOR A ROTARY BREAKER	5/16/2000
US	6542057	PRESSURE SENSITIVE TRIP MECHANISM FOR A ROTARY BREAKER	8/20/2001
US	6919785	PRESSURE SENSITIVE TRIP MECHANISM FOR A ROTARY BREAKER	2/28/2003
US	6337447	ELECTRICAL DISCONNECT SWITCH ASSEMBLY	6/5/2000
US	6771170	POWER SYSTEM WAVEFORM CAPTURE	4/10/2001

Country	Pat. / Appl. No.	Title	Appl. Date
US	6603075	VERTICAL BUS POWER CONNECTOR	12/20/2000
US	6844799	COMPACT LOW COST CURRENT SENSOR AND CURRENT TRANSFORMER CORE HAVING IMPROVED DYNAMIC RANGE	4/10/2001
US	6909586	CIRCUIT BREAKER VOLTAGE SENSING MODULE	3/19/2002
US	6836396	WORLD WIDE WEB ENABLED AND DIGITAL RATING PLUG	9/13/2000
US	6547348	INTERLOCKING TRIM PLATES	12/22/2000
US	6454424	RV LIGHT LENS	10/11/2000
US	6448522	COMPACT HIGH SPEED MOTOR OPERATOR FOR A CIRCUIT BREAKER	1/30/2001
US	6495781	HANDLE POSITION INDICATOR	12/27/2000
US	6380829	MOTOR OPERATOR INTERLOCK AND METHOD FOR CIRCUIT BREAKERS	11/21/2000
US	6788512	ELECTRONIC TRIP UNIT CAPABLE OF ANALOG AND DIGITAL SETTING OF CIRCUIT BREAKER SETPOINTS	4/16/2002
US	7923650	GANGED AUXILIARY SWITCH CONFIGURATION FOR USE IN A MOLDED CASE CIRCUIT BREAKER	2/22/2001
US	6806800	ASSEMBLY FOR MOUNTING A MOTOR OPERATOR ON A CIRCUIT BREAKER	10/19/2000
US	6476337	AUXILIARY SWITCH ACTUATION ARRANGEMENT	2/26/2001
US	6507256	AUXILIARY MAGNETIC TRIP SYSTEM	8/17/2001
US	6853277	AUXILIARY MAGNETIC TRIP SYSTEM	8/6/2002
US	6437670	MAGNETIC RELEASE SYSTEM FOR A CIRCUIT BREAKER	2/12/2002
US	6804101	DIGITAL RATING PLUG FOR ELECTRONIC TRIP UNIT IN CIRCUIT BREAKERS	11/6/2001
US	6980069	MAGNETIC DEVICE FOR A MAGNETIC TRIP UNIT	4/18/2002
US	6611411	TRIP SIGNAL VERIFYING METHOD AND APPARATUS	4/6/2001
US	6437262	HANDLE OPERATING ASSEMBLY FOR AN ELECTRIC DISCONNECT SWITCH	2/28/2001

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US	6438800	DOOR HINGE ASSEMBLY FOR AN ELECTRICAL APPLIANCE ENCLOSURE	1/22/2001
US	6423913	LOCKING DEVICE FOR HANDLE OPERATING MECHANISMS	2/28/2001
US	6882258	MECHANICAL BELL ALARM ASSEMBLY FOR A CIRCUIT BREAKER	2/27/2001
US	6880226	METHOD FOR LIMITING MOVEMENT IN ELECTRICAL CONTACTORS	6/29/2001
US	6785581	METHODS AND SYSTEMS FOR FABRICATING COMPONENTS	5/6/2002
US	6546342	ADAPTIVE ALGORITHM TO PREVENT NUISANCE TRIPPING ADAPTIVE ALGORITHM TO PREVENT NUISANCE TRIPPING	12/10/2001
US	6757626	TRIP UNIT AND CIRCUIT BREAKER TO PREVENT NUISANCE TRIPPING	3/17/2003
US	6794963	MAGNETIC DEVICE FOR A MAGNETIC TRIP UNIT	4/24/2002
US	6791440	APPARATUS FOR ELECTRICALLY ISOLATING CIRCUIT BREAKER ROTOR COMPONENTS	8/2/2002
US	6558025	METHOD AND APPARATUS FOR MOUNTING A LAMP	7/5/2001
US	6868349	METHOD AND DEVICES FOR WIRELESS COMMUNICATION BETWEEN TEST AND CONTROL DEVICES AND POWER DISTRIBUTION DEVICES	4/4/2002
US	6469882	CURRENT TRANSFORMER INITIAL CONDITION CORRECTION	10/31/2001
US	6545574	ARC FAULT CIRCUIT BREAKER	12/17/2001
US	6538862	CIRCUIT BREAKER WITH A SINGLE TEST BUTTON MECHANISM	11/26/2001
US	6731483	CIRCUIT BREAKER WITH SINGLE TEST BUTTON MECHANISM	2/14/2003
US	6433444	MODULAR FAULT TOLERANT POWER DISTRIBUTION SYSTEM	2/18/2000
US	6784770	EARTH LEAKAGE DETECTION DEVICE	12/6/2000
US	6426688	MODULAR CONTACT SYSTEM FOR DIFFERENT FRAME SIZES	5/25/1999
US	6225881	THERMAL MAGNETIC CIRCUIT BREAKER	4/28/1999

Country	Pat. / Appl. No.	Title	Appl. Date
US	6326869	CLAPPER ARMATURE SYSTEM FOR A CIRCUIT BREAKER	9/23/1999
US	6366438	CIRCUIT INTERRUPTER ROTARY CONTACT ARM	3/6/2000
US	6207916	ELECTRIC ARC EXPLOSION CHAMBER SYSTEM	12/23/1999
US	6414255	SWITCH	4/14/2000
US	6683764	ARC EXTINGUISHING AID	2/8/2001
US	6191374	SELF-ADJUSTING CONTACT LEVER	9/22/1998
US	6559743	STORED ENERGY SYSTEM FOR BREAKER OPERATING MECHANISM	3/12/2001
US	6448519	CONTACT SYSTEM ARRANGEMENT FOR PLUG-IN CIRCUIT BREAKERS AND BASE	11/29/2000
US	6423917	SELF-DISENGAGING CIRCUIT BREAKER MOTOR OPERATOR	3/13/2001
US	6373010	ADJUSTABLE ENERGY STORAGE MECHANISM FOR A CIRCUIT BREAKER MOTOR OPERATOR	6/15/2000
US	6816353	ELECTRONIC ACTUATION FOR MECHANICALLY HELD CONTACTORS	6/6/2001
US	6759939	FUSE HOLDER ASSEMBLY	4/26/2002
US	6417661	SELF POWERED CURRENT SENSOR	4/6/1999
US	6291900	ELECTRICAL ENERGY MANAGEMENT FOR MANUALLY POWERED DEVICES	1/13/2000
US	6442569	APPARATUS AND METHOD FOR DATA TRANSFER BETWEEN DATABASES	4/26/1999
US	6111489	CIRCUIT BREAKER CONFIGURATION	1/29/1999
US	6184672	CURRENT SENSOR ASSEMBLY WITH ELECTROSTATIC SHIELD	8/13/1998
US	6963195	APPARATUS FOR SENSING CURRENT	11/20/2000
US	6430210	RECEIVER FOR DETECTING AN AMPLITUDE MODULATED SIGNAL INSINUATED ON AN GHM SIGNAL	4/5/1999
US	6346875	GHM AGGREGATOR	1/3/2000
US	6424250	COMMUNICATION SYSTEM UTILIZING MODIFIED GEOMETRIC HARMONIC MODULATION	3/8/1999
US	6442006	GROUND FAULT CIRCUIT BREAKER	12/7/1999
US	6472882	FAIL-SAFE ELECTRONIC CIRCUIT BREAKER	10/23/2000

Country	Pat. / Appl. No.	Title	Appl. Date
US	6856647	METHODS AND SYSTEMS FOR NEUTRAL-TO-GROUND COMMUNICATION	10/17/2000
US	6483065	METHODS AND APPARATUS FOR CURRENT TRANSMISSION THROUGH A CIRCUIT BREAKER	10/9/2001
US	6507128	LOW-ENERGY STORAGE FAST-START UNINTERRUPTIBLE POWER SUPPLY SYSTEM AND METHOD	5/23/2001
US	7129593	LOW-ENERGY STORAGE FAST-START UNINTERRUPTIBLE POWER SUPPLY METHOD	11/6/2002
US	6909994	METHOD, SYSTEM AND COMPUTER PRODUCT FOR PERFORMING FAILURE MODE AND EFFECTS ANALYSIS THROUGHOUT THE PRODUCT LIFE CYCLE	11/25/2002
US	7401063	PROCESS FOR SEMI-AUTOMATIC MAINTENANCE OF A KNOWLEDGE BASE USING TAGGED EXAMPLES	12/16/2002
WO	PCT/US2017/016874	RACKING INTERLOCKING SYSTEMS FOR WITHDRAWABLE CIRCUIT BREAKERS	2/8/2017
WO	PCT/US2017/021721	DFIG-BASED UPS SYSTEMS AND METHODS OF CONTROL	3/10/2017
US	7359772	METHOD, SYSTEM, AND STORAGE MEDIUM FOR COMMUNICATING WITH VEHICLE CONTROL	11/6/2003
US	14/261195	METHOD AND SYSTEM FOR TRANSIENT VOLTAGE SUPPRESSION DEVICES WITH ACTIVE CONTROL	4/24/2014
US	14/505975	STRUCTURE AND METHOD FOR TRANSIENT VOLTAGE SUPPRESSION DEVICES WITH A TWO-REGION BASE	10/3/2014
US	62/476346	SYSTEMS AND METHODS FOR LINE VOLTAGE DROP COMPENSATION	3/24/2017
US	15/729759	SYSTEMS AND METHODS FOR LINE VOLTAGE DROP COMPENSATION	10/11/2017
US	15/439336	Wireless peer to peer network for electrical protection devices	2/22/2017
US	15/439350	POWER DISTRIBUTION SYSTEMS AND METHODS OF PERFORMING ZONE SELECTIVE INTERLOCKING IN POWER DISTRIBUTION SYSTEMS WITH A COMMUNICATION NETWORK	2/22/2017

Country	Pat. / Appl. No.	Title	Appl. Date
US	15/439238	POWER DISTRIBUTION SYSTEMS AND METHODS OF TESTING RESPONSES TO ELECTRICAL CONDITIONS USING A COMMUNICATION NETWORK	2/22/2017
US	15/439460	POWER DISTRIBUTION SYSTEMS AND METHODS OF PERFORMING ZONE SELECTIVE INTERLOCKING IN POWER DISTRIBUTION SYSTEMS WITH A COMMUNICATION NETWORK	2/22/2017
US	15/439438	POWER DISTRIBUTION SYSTEMS AND METHODS OF PERFORMING GROUND FAULT DETECTION IN POWER DISTRIBUTION SYSTEMS WITH A COMMUNICATION NETWORK	2/22/2017
US	15/702080	METHODS AND SYSTEMS FOR GROUND FAULT DETECTION IN A POWER DISTRIBUTION SYSTEM	9/12/2017
US	15/381514	CONTACT ASSEMBLY FOR ELECTRICAL DEVICES AND METHOD FOR MAKING	12/16/2016
US	15/685262	ELECTRICAL POWER DISTRIBUTION SYSTEM INCLUDING PRESSURE RELEASE MECHANISM	8/24/2017
US	15/985845	VENTILATION COVER APPARATUS FOR AN ELECTRICAL ENCLOSURE INCLUDING WATER-RESISTANT AND ARC-RESISTANT FEATURES	5/22/2018
US	15/985741	CIRCUIT BREAKER INCLUDING ACTIVE ARC CONTROL FEATURES	5/22/2018
US	16/000492	INTEGRATED MAGNETIC ASSEMBLIES AND METHODS OF ASSEMBLING SAME	6/5/2018
US	15/985192	LOCK ASSEMBLIES FOR SWITCH DEVICES OF ELECTRICAL POWER DISTRIBUTION SYSTEMS	5/21/2018
US	15/657786	SINGLE-STAGE DC-DC POWER CONVERTER	7/24/2017
US	15/705827	SYSTEM AND METHOD FOR STARTING UP A HIGH DENSITY ISOLATED DC-TO-DC POWER CONVERTER	9/15/2017

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