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Sort: Pub Date Desc ▾ Per page: 10 ▾ View: All ▾

< 9 / 229 ▾ >

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81. [20220141974](#) EXPLOSION-PROOF STRUCTURE

US - 05.05.2022

Int.Class [H05K 5/02](#) Appl.No 17285758 Applicant TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION Inventor Mitsuru HANO

An explosion-proof structure of an electronic device includes a housing, a cover member, and an opening/closing member. The housing houses electronic components. The cover member covers a first ventilation port formed on one surface of the housing at least in a normal direction to the one surface. The opening/closing member opens and closes a second ventilation port formed between one surface and the cover member.

82. [WO/2022/091320](#) TRANSPORT DEVICE

WO - 05.05.2022

Int.Class [B65G 7/06](#) Appl.No PCT/JP2020/040747 Applicant TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION Inventor OHTSUKA Junji

The purpose of this disclosure is to provide a transport device for drive motors which improves working efficiency and facilitates securing of a work space. Furthermore, an air transport mechanism [1], which is a main component of this transport device, includes a float base [2] and a stand [5]. The stand [5] functions as a motor mounting table on which a drive motor [50] is mounted. The float base [2] supports the stand [5] from below. The float base [2] has an air caster [3] inside, and, by supplying compressed air to the air caster [3], levitation operation for levitating objects to be transported including the drive motor [50], the stand [5], and the float base [2] can be performed.

83. [20220137155](#) CAPACITOR DIAGNOSIS DEVICE AND CAPACITOR DIAGNOSIS METHOD

US - 05.05.2022

Int.Class [G01R 31/64](#) Appl.No 17265979 Applicant TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION Inventor Haruyuki YAMAGUCHI

According to an embodiment, a capacitor diagnosis device includes a sensor, a frequency spectrum analysis unit, a frequency component extraction unit, and a diagnosis processing unit. The sensor detects a physical quantity that changes with an current flowing through a capacitor in a power conversion unit (PCU) for converting DC power smoothed by the capacitor connected in parallel to DC link[s] into AC power according to a power running operation. The frequency spectrum analysis unit generates a frequency spectrum based on a detection result of the sensor detected during the power running operation of the PCU. The frequency component extraction unit extracts a component of a specific frequency band related to a frequency depending on a configuration of the PCU based on the frequency spectrum. The diagnosis processing unit diagnoses a state of the capacitor based on at least a magnitude of the extracted component of the specific frequency band.

84. [20220140723](#) CONTROL DEVICE FOR POWER CONVERTER

US - 05.05.2022

Int.Class [H02M 1/32](#) Appl.No 17416878 Applicant TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION Inventor Issei FUKASAWA

A control device for a power converter that can suppress oscillation of an output voltage of the power converter. The control device for the power converter includes an overvoltage detector configured to detect an overvoltage on an output side of the power converter and a controller configured to, when the overvoltage on the output side of the power converter is detected by the overvoltage detector, perform gate block after reducing a current command value given to the power converter. With the configuration, when the overvoltage on the output side of the power converter is detected, the control device performs the gate block after reducing the current command value given to the power converter. Accordingly, it is possible to suppress oscillation of an output voltage of the power converter.

85. [20220140747](#) POWER CONVERSION APPARATUS

US - 05.05.2022

Int.Class [H02M 7/537](#) Appl.No 17428423 Applicant TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION Inventor Hidenobu TAJIMA

A gate drive circuit of an uninterruptible power supply apparatus generates first and second gate drive signals in response to first and second PWM signals, and alternately turns on first and second IGBTs. When the first IGBT is on, the gate drive circuit sets the first gate drive signal to the "L" level in response to the second PWM signal and sets the second gate drive signal to the "H" level in response to a voltage across terminals of the first IGBT exceeding a threshold voltage.

86. [WO/2022/091249](#) ELECTRIC-POWER CONVERTER

WO - 05.05.2022


Int.Class [H02J 3/38](#) Appl.No PCT/JP2020/040428 Applicant TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION Inventor AOYAGI, Kazuki

This electric-power converter includes: a plurality of DC power sources; a plurality of power conversion circuits that are provided respectively corresponding to the plurality of DC power sources, and that each receive, from a DC end via a DC bus, DC power supplied from the corresponding DC power source and convert same to AC power; an AC power system in which a plurality of AC ends, provided respectively to the plurality of power conversion circuits, are directly connected in parallel via a parallel connection point, and the AC power output from the plurality of AC ends is supplied to an AC side via the parallel connection point; a plurality of ground lines that respectively connect at least two of a plurality of DC negative buses between earth and the plurality of DC




power sources and the plurality of power conversion circuits; and a plurality of diodes that are respectively inserted in series into the plurality of ground lines, with a cathode side being connected to the DC negative bus and an anode side being grounded.

87. [WO/2022/091250](#) PROTECTION SYSTEM, SOLAR POWER GENERATION SYSTEM, AND PROTECTION METHOD WO - 05.05.2022

Int.Class [H02H 7/12](#)  Appl.No PCT/JP2020/040429 Applicant TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
Inventor TERASHIMA, Daiki

This protection system comprises a DC power source, a power converter that converts DC power from the DC power source to AC power, a breaker that is inserted in series in the electrical circuit between the DC power source and the power converter and that can open the electrical circuit, a DC capacitor connected to a circuit inside the power converter, a timer that measures from when the breaker is closed until a prescribed amount of time has elapsed, a current detector that detects current flowing inside the power converter, and a protection arbiter that issues an open operation instruction to the breaker when the current detector has not detected a decrease in current at the time when the timer has measured from when the breaker is closed until the prescribed amount of time has elapsed.

88. [20220137110](#) SYSTEM FREQUENCY DETECTOR US - 05.05.2022

Int.Class [G01R 23/02](#)  Appl.No 17259195 Applicant Toshiba Mitsubishi-Electric Industrial Systems Corporation Inventor Yasuaki MITSUGI


A system frequency detector includes an orthogonal coordinate signal generator generating an orthogonal two-phase voltage signal from a three-phase voltage signal of three-phase alternating current power of a power system by converting the three-phase voltage signal into a two-phase voltage signal orthogonal to the three-phase voltage signal, converting the two-phase voltage signal into a voltage signal of a rotating coordinate system, calculating a moving average of the voltage signal of the rotating coordinate system, and performing an inverse transformation of the voltage signal of the rotating coordinate system after calculating the moving average; and a frequency calculator including an angular frequency calculator calculating an angular frequency of the power system based on the two-phase voltage signal, and an arithmetic unit calculating a system frequency of the power system from the angular frequency, the frequency calculator further including a low-pass filter provided in series with the arithmetic unit.

89. [WO/2022/085101](#) REACTIVE POWER SUPPLEMENTING DEVICE WO - 28.04.2022

Int.Class [G05F 1/70](#)  Appl.No PCT/JP2020/039502 Applicant MITSUBISHI ELECTRIC CORPORATION Inventor MUKUNOKI Kaho

A reactive power supplementing device [1] is provided with a power converter [6] and a converter control unit [7], and supplements reactive power of an AC power system [2] with output reactive power of the power converter [6]. The converter control unit [7] is provided with an AC voltage detection unit [21] and an output limit unit [22]. The AC voltage detection unit [21] detects voltage information about the AC power system [2] to which the power converter [6] is connected. The output limit unit [22] determines whether or not restriction on the output reactive power of the power converter [6] is necessary, on the basis of the voltage information detected by the AC voltage detection unit [21], and restricts the output reactive power of the power converter [6] when restriction on the output reactive power is necessary.

90. [WO/2022/085109](#) MOTOR DRIVE SYSTEM AND MOTOR DRIVE METHOD WO - 28.04.2022

Int.Class [H02P 7/08](#)  Appl.No PCT/JP2020/039536 Applicant TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION
Inventor SUZUKI Shinya

This motor drive system of an embodiment comprises a power converter, a status detector, a frequency calculator, a frequency correction command generator, a drive amount limiter, and a speed controller. The power converter drives the motor using PWM control. The status detector detects the drive status of the motor. The frequency calculator uses an index value indicating the drive status to detect the size of a specific frequency component that fluctuates depending on the drive status. The frequency correction command generator generates a command for correcting the carrier frequency used in the PWM control on the basis of the detection result for the periodic fluctuation of the drive status. The drive amount limiter limits the drive amount of the motor. When searching in the direction of raising the carrier frequency, the drive amount limiter adjusts in a direction in which the upper limit of the size of the current flowing in the winding of the motor is made less than a preset upper limit current value. The speed controller generates a current reference that is based on the speed command value and the rotor speed of the motor according to the limit.