

20 Documents

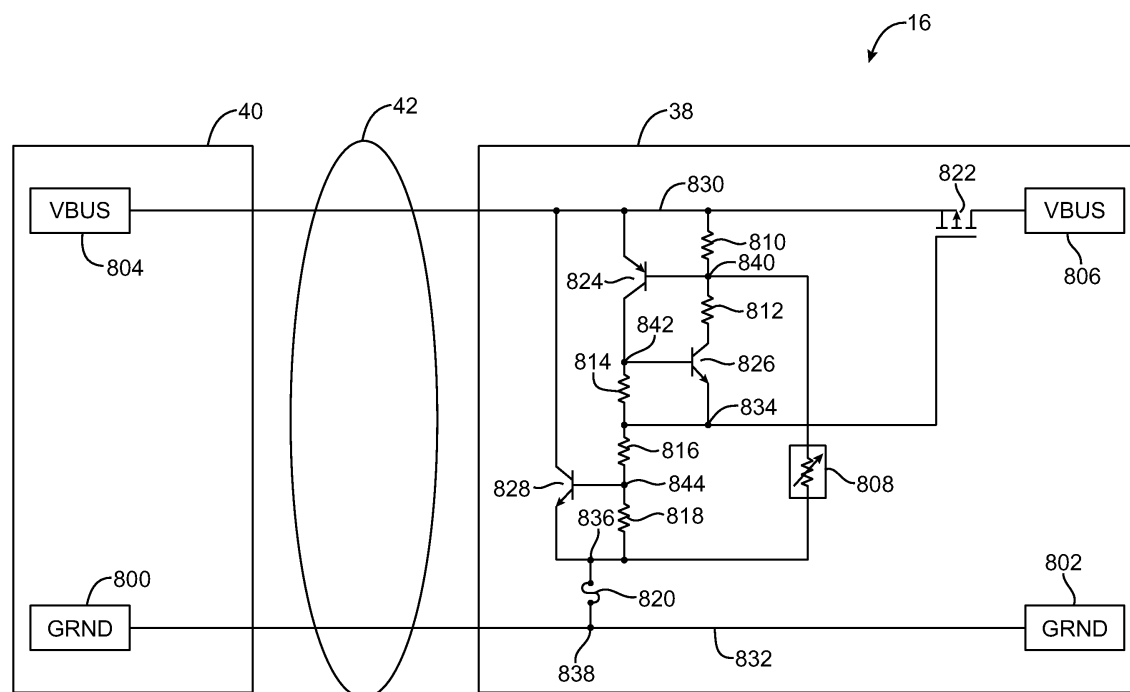
Publication numbers	Title	Current assignees
US20110104940 A1	Thermal protection circuits for electronic device cables	APPLE
CN101106264 A	Humidity detection and power cut-off device	HON HAI PRECISION INDUSTRY, ...
EP2498481 A1	Mobile phone with humidity sensor	SENSIRION
JP2007135008 A	Mobile terminal	SONY ERICSSON MOBILE COMMUNICATIONS
WO200365691 A2	Mobile telecommunications terminal	GIGASET COMMUNICATIONS
JP10174301 A	Charger	HOSIDEN
WO201061593 A1	Electronic device	KYOCERA
US20170082360 A1	Methods and apparatuses for drying electronic devices	REVIVE ELECTRONICS
CN106655090 A	Protective apparatus of motor driver and motor	GUANGDONG WELLING ELECTRIC MACHINE MANUFACTURE
US20160377532 A1	Gas sensor kit and gas measurement system	NIHON KOHDEN
US20140307356 A1	Method for determining flooded state and electronic device thereof	SAMSUNG ELECTRONICS
KR20130082123 A	Methods, apparatuses and systems for monitoring for exposure of electronic devices to moisture and reacting to exposure of electronic devices to moisture	HZO
CN103901908 A	Dampness protective apparatus and electronic device using same	HONGFUJIN PRECISION INDUSTRY SHENZHEN, ...
WO201370595 A2	Electronic device state detection for zero power charger control, systems and methods	COOPER TECHNOLOGIES
US20130088094 A1	Apparatus and method for controlling power in portable terminal	SAMSUNG ELECTRONICS
WO200073866 A1	An intelligent electronic device for monitoring non-electrical characteristics	GENERAL ELECTRIC
JP04161021 A	Electronic equipment device	PANASONIC
JP03124740U U		
US4464582 A	Water-safe hair dryer circuit	ARAGAKI TSUNEHIDE, ...
DE2631785 A1	Air bubble massager with bubble mat for bath - has moisture sensitive resistor in control circuit to cut off mains supply	TECHNITRON ELEKTRIK BAAR

Family 1/20 - FAMPAT - ©Questel

Title

(US8498087)

Thermal protection circuits for electronic device cables

Images**Publication data including kind & date**

US20110104940	A1	2011-05-05	US20110104940
US8498087	B2	2013-07-30	US8498087

**Abstract**

(US8498087)

Connectors for cables such as a 30-pin connector are provided. The connectors may have thermal protection circuits and may carry a power supply voltage and a ground voltage. The thermal protection circuits may disable the power supply voltage when the temperature of the connector exceeds a threshold value. The thermal protection circuits may disable the power supply voltage when liquid is detected in the connector. The thermal protection circuits may disable the power supply voltage permanently or temporarily. In one example, when a cable is reset, the thermal protection circuits may use a record of previous fault events and measurements from thermal and liquid sensors to determine whether to enable or disable the power supply voltage.

Inventors

RABU STANLEY

HOLLABAUGH JAMES M

Latest standardized assignees - inventors removed

APPLE

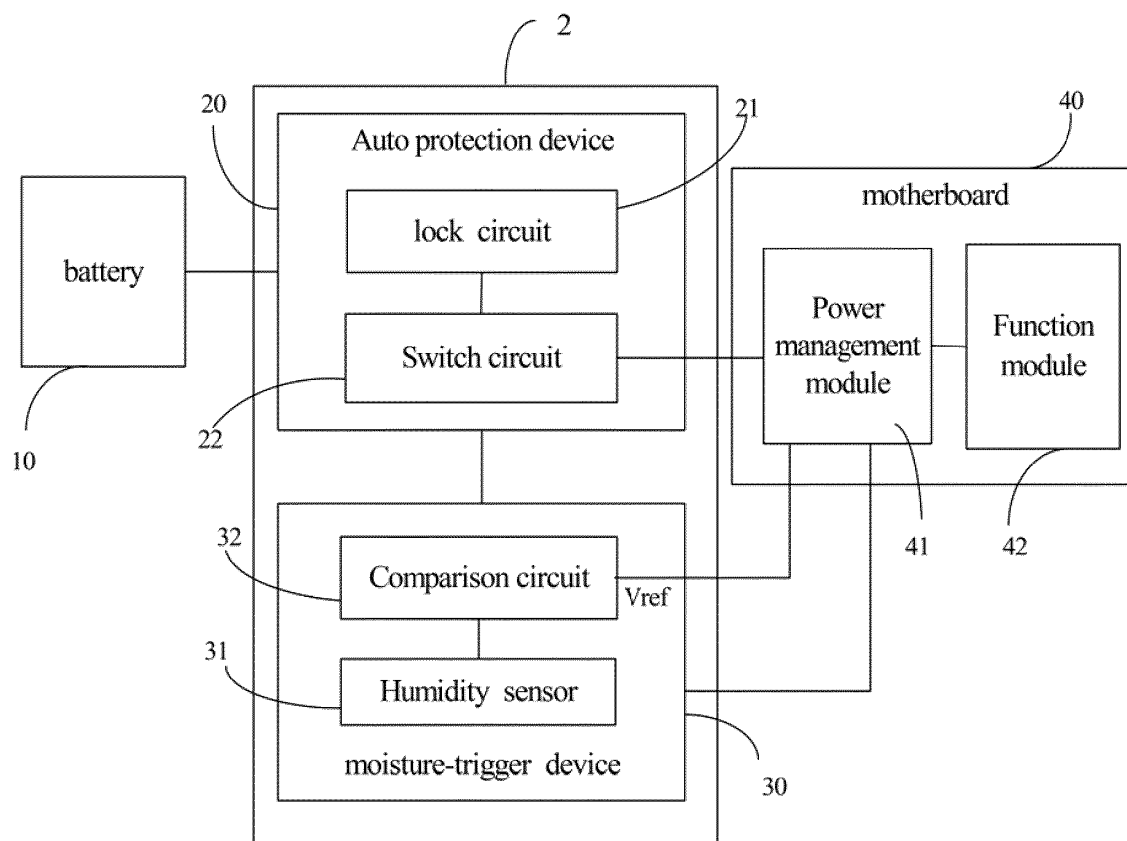
Family 2/20 - FAMPAT - ©Questel

Title

(US7557466)

Humidity detection and power cut-off device

Images



Publication data including kind & date

CN101106264	A	2008-01-16	CN101106264
US20080013241	A1	2008-01-17	US20080013241
US7557466	B2	2009-07-07	US7557466
CN101106264	B	2010-12-22	CN101106264B



Abstract

(US7557466)

A humidity detection and power cut-off device for electronic equipment is provided. The device is connected between a battery (10) and a motherboard (40) of the electronic equipment and includes an auto protection device (20) and a moisture-triggered device (30). The auto protection device is connected between the battery and the power management module and is used to establish or cut off the connection between the battery and the power management module. The moisture-triggered device is used to detect the immediate ambient humidity and controls the auto protection device. If the moisture-triggered circuit detects that the immediate ambient humidity exceeds a predetermined critical humidity value, the moisture-triggered device outputs a trigger signal to the auto protection device. The trigger signal controls the auto protection circuit to cut off a connection between the battery and the power management module, thus to achieve waterproofing protecting for the electronic equipment.

Inventors

WONG SHIH-FANG
CHUANG TSUNG-JEN
CUI WEN-JIAN
ZHANG JUN-WEI

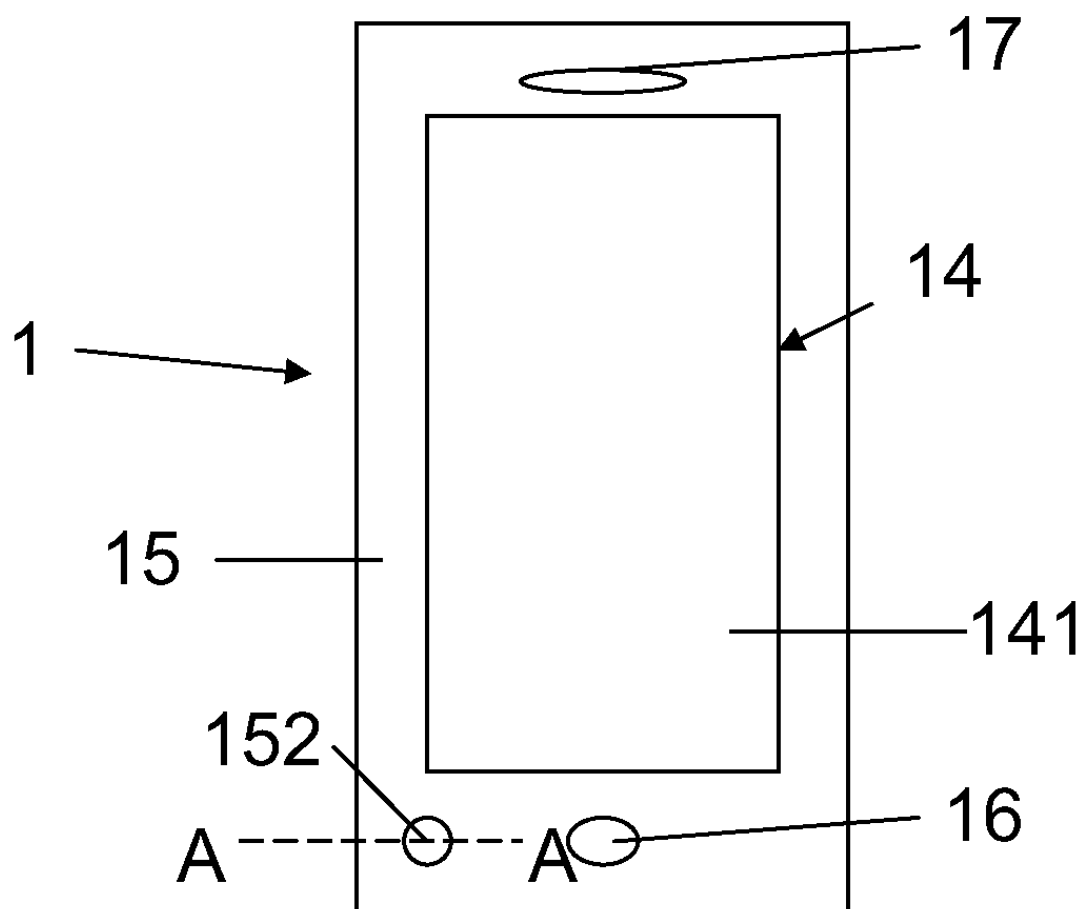
Latest standardized assignees - inventors removed

HON HAI PRECISION INDUSTRY
HONGFUJIN PRECISION INDUSTRY SHENZHEN

Title

(EP2498481)

Mobile phone with humidity sensor

Images**Publication data including kind & date**

EP2498481	A1	2012-09-12	EP2498481
US20120231841	A1	2012-09-13	US20120231841
KR20120103482	A	2012-09-19	KR20120103482
JP2012191619	A	2012-10-04	JP2012191619
US8838037	B2	2014-09-16	US8838037
JP5963481	B2	2016-08-03	JP5963481

**Abstract**

(EP2498481)

A mobile phone (1) comprises a casing (15) and a cavity (151) in the casing (15). A humidity sensor (12) is arranged for measuring a humidity (RH) in the cavity (151). In response to a trigger, a control unit (11) analyzes a humidity signal (RH(t)) supplied by the humidity sensor (12). A result of the analysis is presented via an output unit (14). Such device allows for measuring a humidity of a user's skin in case the user covers a window (152) in the casing (15) connected to the cavity (15) by a body part.

Inventors

NIEDERBERGER DOMINIK

SCHUMM JOHANNES

GERNER PASCAL

GRAF MARKUS

Latest standardized assignees - inventors removed

SENSIRION

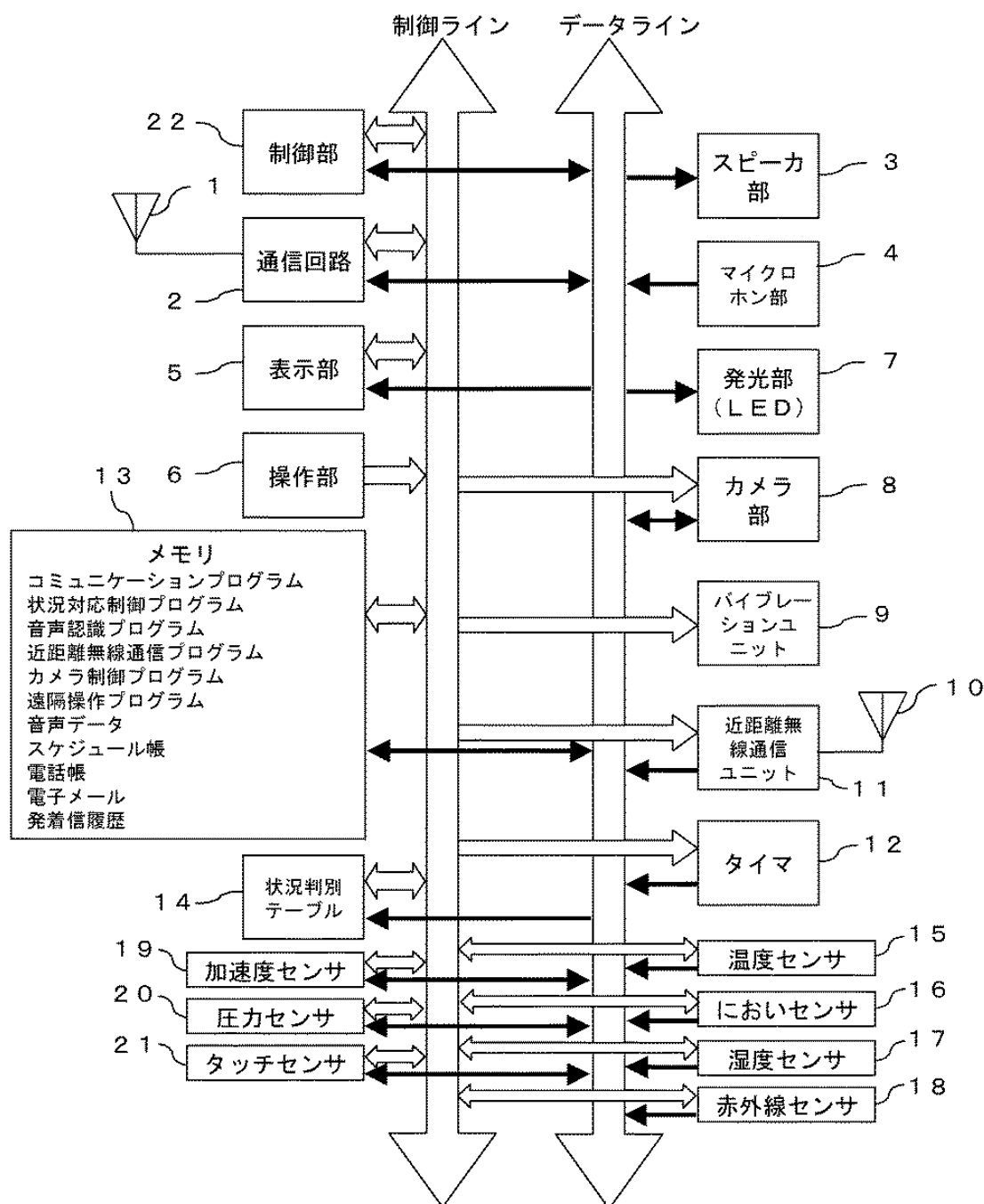
Family 4/20 - FAMPAT - ©Questel

Title

(JP2007135008)

Mobile terminal

Images



Publication data including kind & date

JP2007135008

A

2007-05-31

JP2007135008



Abstract

(JP2007135008)

PROBLEM TO BE SOLVED: To provide a mobile phone which performs operations corresponding to the situations and

voices.

SOLUTION: The mobile phone is provided with various sensors, such as a temperature sensor 15, a smell sensor 16, a humidity sensor 17, an infrared sensor 18, and an acceleration sensor 19, and a control section 22 that comprehensively decides the situation of the mobile phone, based on the respective detection outputs to perform operation control, corresponding to the decided situation. For example, when the acceleration sensor 19 detects an impact exceeding a specified value, control to output a voice "Ouch!" is performed. When the temperature sensor detects a temperature higher than a specified temperature or below a specified temperature, control to output a voice message asking about whether an air conditioner needs to be powered on together with a voice "It is hot." or "It is cold." is performed; and when a user utters a voice, such as "Power-on", for turning on the power source, a control command to turn on the power source is transmitted by short range radio, to remotely operate the air conditioner.

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Inventors

UCHIDA TATSUYA

Latest standardized assignees - inventors removed

SONY ERICSSON MOBILE COMMUNICATIONS

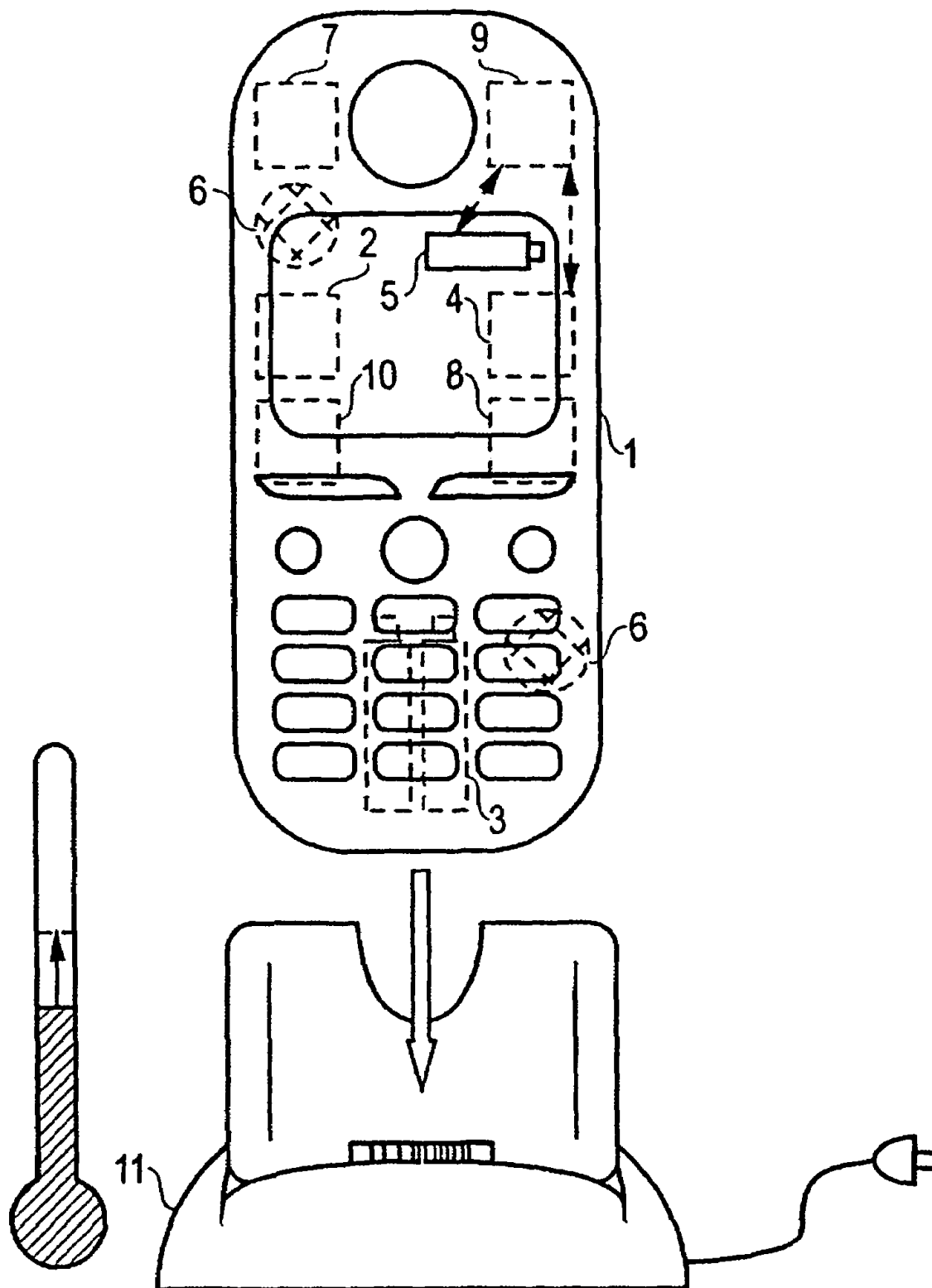
Family 5/20 - FAMPAT - ©Questel

Title

(EP1470693)

Mobile telecommunications terminal

Images



Publication data including kind & date

WO03065691	A2	2003-08-07	WO200365691
DE10203814	A1	2003-08-14	DE10203814
DE10203814	C2	2003-11-27	DE10203814
WO03065691	A3	2003-12-04	WO200365691
EP1470693	A2	2004-10-27	EP1470693
US20050079888	A1	2005-04-14	US20050079888
US7050837	B2	2006-05-23	US7050837



Abstract

(EP1470693)

The invention relates to a mobile telecommunications terminal (1) comprising elements (6) for detecting moisture in said terminal (1). The latter comprises the following precautionary features: a memory (8) for retaining the circumstance, in which the detection of moisture takes place, a shutdown element (9, 4) for shutting down the mobile telecommunications terminal (1) at least partially, if moisture has been detected and a feature (10) for determining the circumstances of the moisture detection. The invention is characterised in that the mobile communications terminal (1) has been at least partially shut down as a result of a detection of moisture and that said mobile communications terminal (1) has been connected to an external current supply source, subsequently causing current to be drawn from said source. Once the two aforementioned circumstances have been detected, a mode is activated, by means of which the mobile communications terminal (1) is subjected to a heating phase and as a result, in turn, a drying phase.

Inventors

MENZ WOLFGANG

PLUGGE THOMAS

Latest standardized assignees - inventors removed

GIGASET COMMUNICATIONS

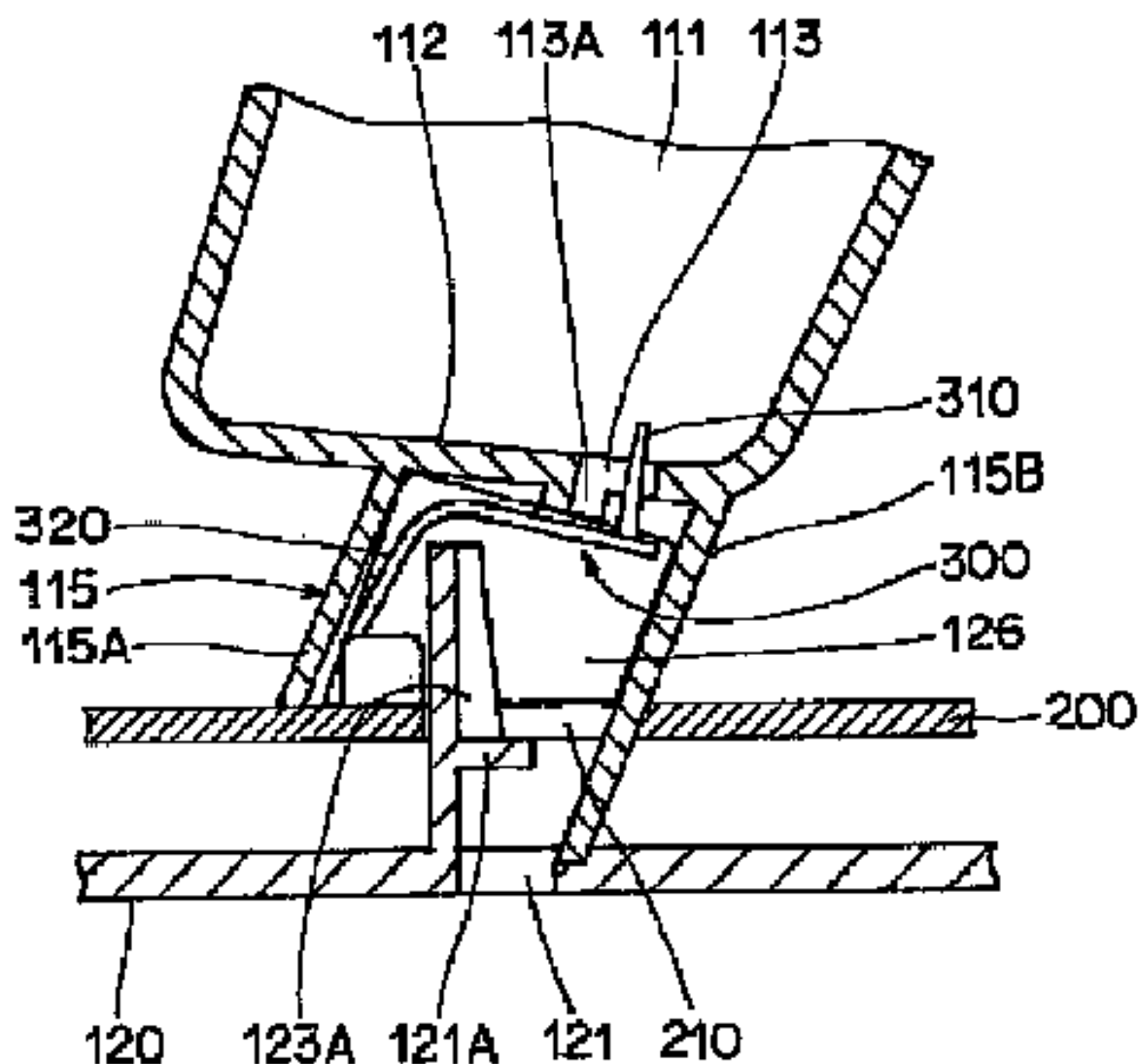
Family 6/20 - FAMPAT - ©Questel

Title

(JP10174301)

Charger

Images



Publication data including kind & date

JPH10174301	A	1998-06-26	JP10174301
JP3366541	B2	2003-01-14	JP3366541



Abstract

(JP3366541)

PROBLEM TO BE SOLVED: To prevent generation of short-circuiting and corrosion of an electronic part or the like even when water is infiltrated in a recess where an electronic equipment mounting a battery or a single battery is fitted. **SOLUTION:** A charger is provided with an upper case having a recess 111 fitted with a portable telephone mounting a battery and a pair of power feed terminals 300 provided in a board 200 to be exposed from a through hole 113 opened in the lowest part of a bottom surface 112 in the recess 111 to come into contact with a power receiving terminal of the

battery. In a backside of the recess 111, a rib 15, surrounding the power feed terminal 300 and also expending to a water drain hole 121 of a lower case 120 through an opening 210 opened in the board 200, is formed the lower end of the lib 115 are a waterproof wall 115A made in adhesion to the board 200 and a water guide wall 115B inserted through the opening 210 to extend to the water drain hole 121 of the lower case 120, between a pair of the power feed terminals 300, a shield plate 126 having insulation is interposed.

Inventors

AMACHI RIYUUSUKE

Latest standardized assignees - inventors removed

HOSIDEN

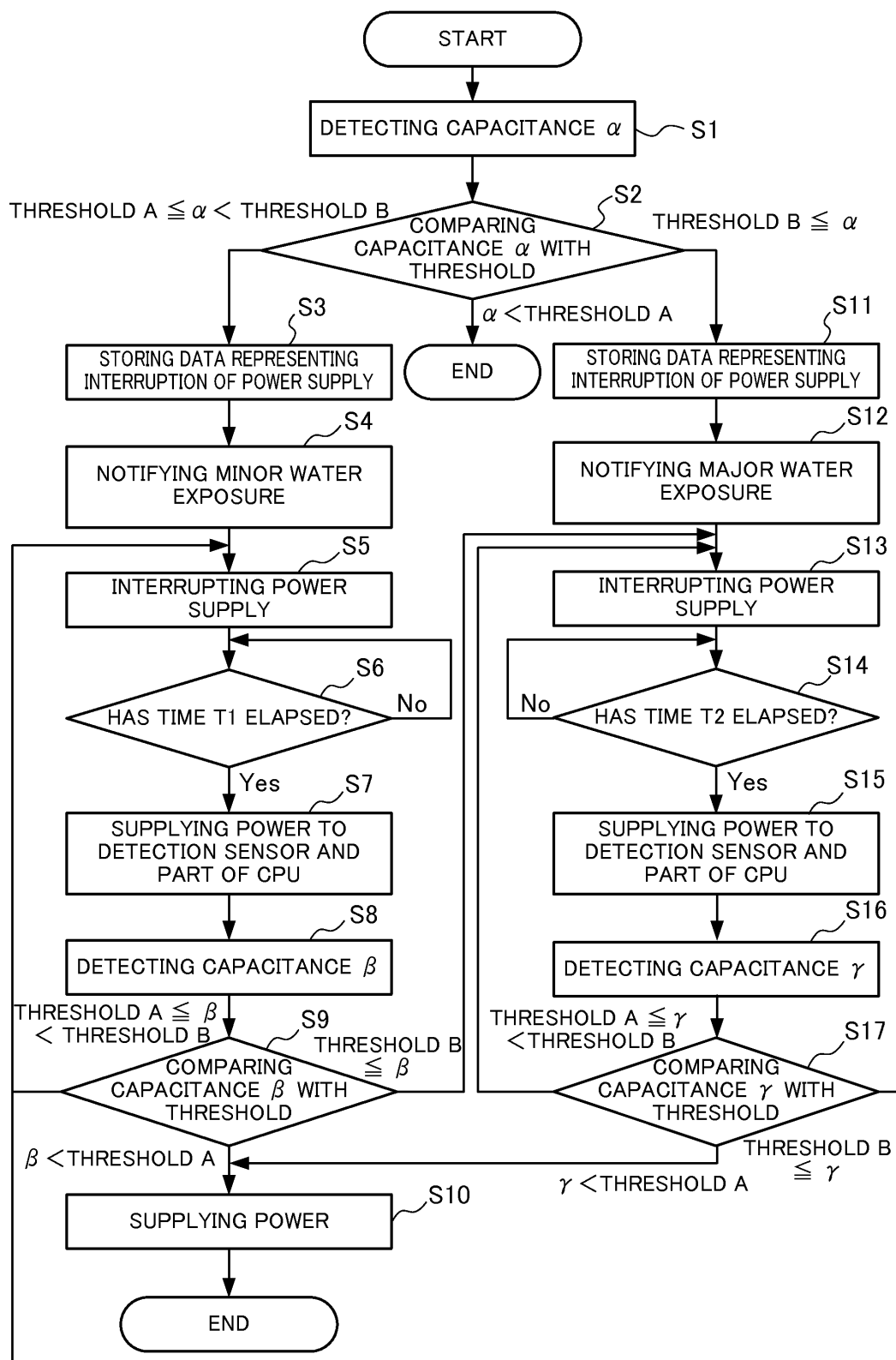
Family 7/20 - FAMPAT - ©Questel

Title

(WO201061593)

Electronic device

Images



Publication data including kind & date

WO2010061593	A1	2010-06-03	WO201061593
JP2010130255	A	2010-06-10	JP2010130255
CN102217291	A	2011-10-12	CN102217291
US20110279931	A1	2011-11-17	US20110279931
JP5074360	B2	2012-11-14	JP5074360
US8416542	B2	2013-04-09	US8416542



Abstract

(WO201061593)

Disclosed is an electronic device capable of controlling a power supply interrupt according to the state of water leakage. A portable telephone (1) is equipped with a water leakage detection unit (60) that detects a physical quantity which changes according to the state of water leakage and a CPU (49) that interrupts a power supply in response to the detection result from the water leakage detection unit (60). When the electrostatic capacity detected by the water leakage detection unit (60) is greater than or equal to a threshold value A and less than a threshold value B, the CPU (49) continues to interrupt the power supply until a time T1 elapses, and when the electrostatic capacity detected by the water leakage detection unit (60) is equal to or greater than the threshold value B, said CPU continues to interrupt the power supply until a time T2 which is longer than the time T1 elapses.

Inventors

NAKAMURA MASATSUGU

Latest standardized assignees - inventors removed

KYOCERA

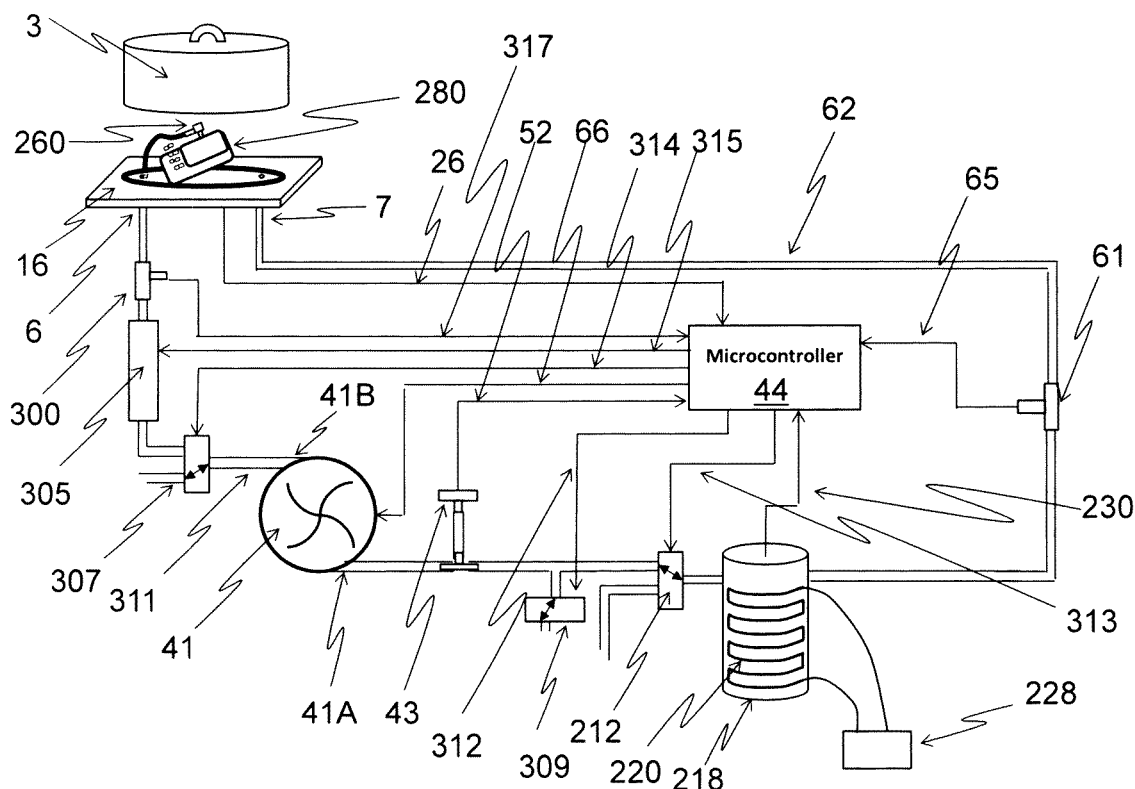
Family 8/20 - FAMPAT - ©Questel

Title

(US9970708)

Methods and apparatuses for drying electronic devices

Images



Publication data including kind & date

US20170082360	A1	2017-03-23	US20170082360
US9644891	B2	2017-05-09	US9644891
US20170205143	A1	2017-07-20	US20170205143
US9746241	B2	2017-08-29	US9746241
US9816757	B1	2017-11-14	US9816757
US20180066890	A1	2018-03-08	US20180066890
US9970708	B2	2018-05-15	US9970708



Abstract

(US9970708)

Methods and apparatuses for drying electronic devices are disclosed. Embodiments include methods and apparatuses that heat and decrease pressure within the electronic device. Some embodiments increase and decrease pressure while adding heat energy, such as by using a heated platen in contact with the electronic device or by supplying a gas (e.g., air), which may be heated, into the interior of the electronic device. Embodiments include heating the gas supplied into the interior of the electronic device with pump used to decrease pressure within the electronic device and/or a separate heater. Still other embodiments include controlling the temperature of the gas supplied into the electronic device. Still further embodiments automatically control, such as by using an electronic processor, some or all aspects of the drying of the electronic device.

Inventors

ZIELINSKI REUBEN

TRUSTY JOEL

DOUBERTEEN DAVID

EARLE MARK

ARAIN IMRAN

SHRAKE JAMES M

Latest standardized assignees - inventors removed

REVIVE ELECTRONICS

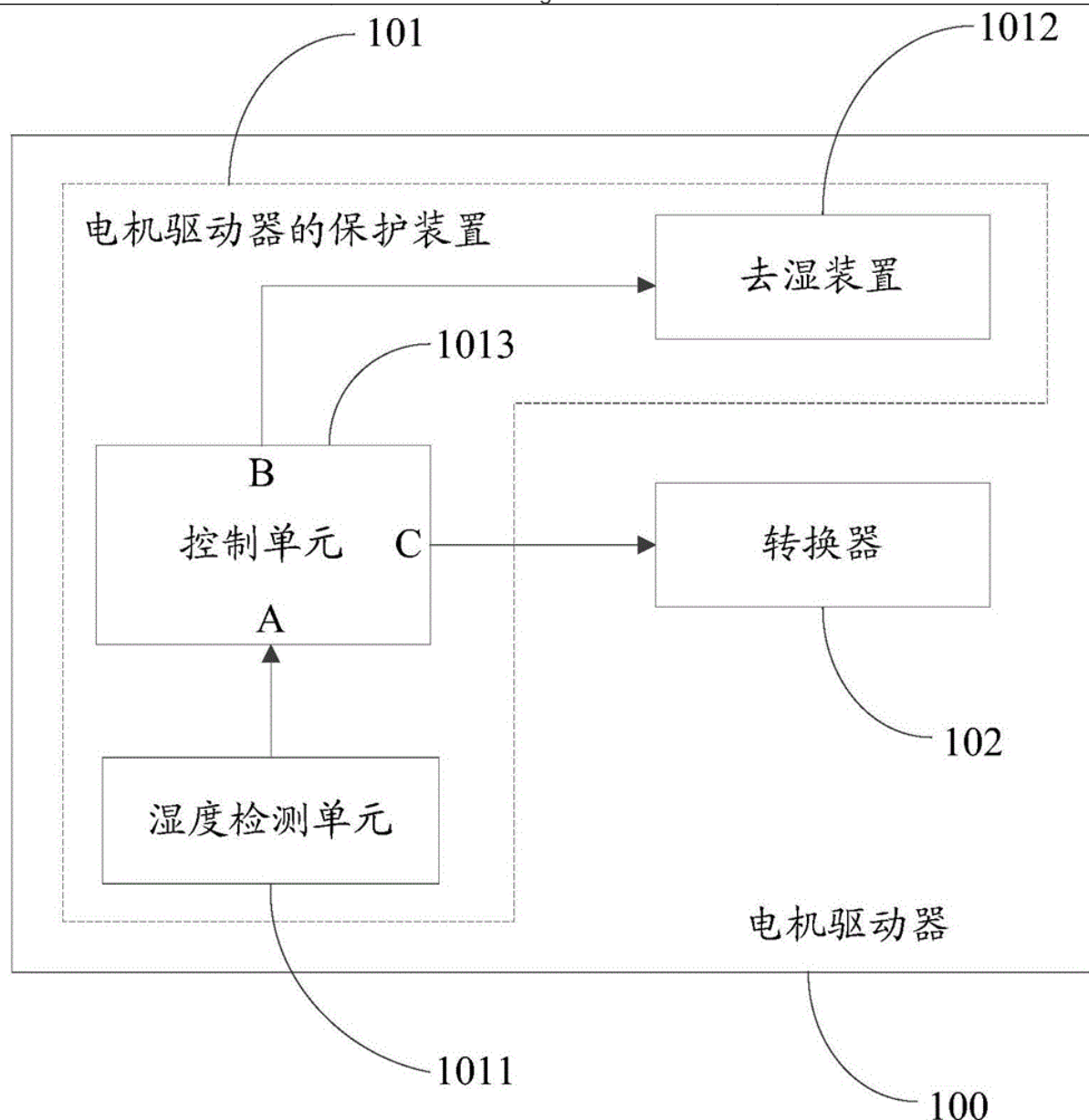
Family 9/20 - FAMPAT - ©Questel

Title

(CN106655090)

Protective apparatus of motor driver and motor

Images

**Publication data including kind & date**

CN106655090

A 2017-05-10 CN106655090

**Abstract**

(CN106655090)

The invention discloses a protective apparatus of a motor driver and a motor. The protective apparatus of the motor driver comprises a humidity detection unit, a dehumidification apparatus and a control unit, wherein the humidity detection unit is used for detecting relative air humidity of a current working environment of the motor driver; the control unit is used for controlling the dehumidification apparatus to dehumidify surrounding air of the motor driver when the humidity detection unit detects that the relative air humidity of the current working environment of the motor driver is greater than or equal to preset relative humidity; and meanwhile, a power supply of a converter in the motor driver is turned off to enable the converter in the motor driver to stop working. According to the protective apparatus and the motor, the reliability of the motor driver is greatly improved.

Inventors

WAN ZHIYU

Latest standardized assignees - inventors removed

GUANGDONG WELLING ELECTRIC MACHINE MANUFACTURE

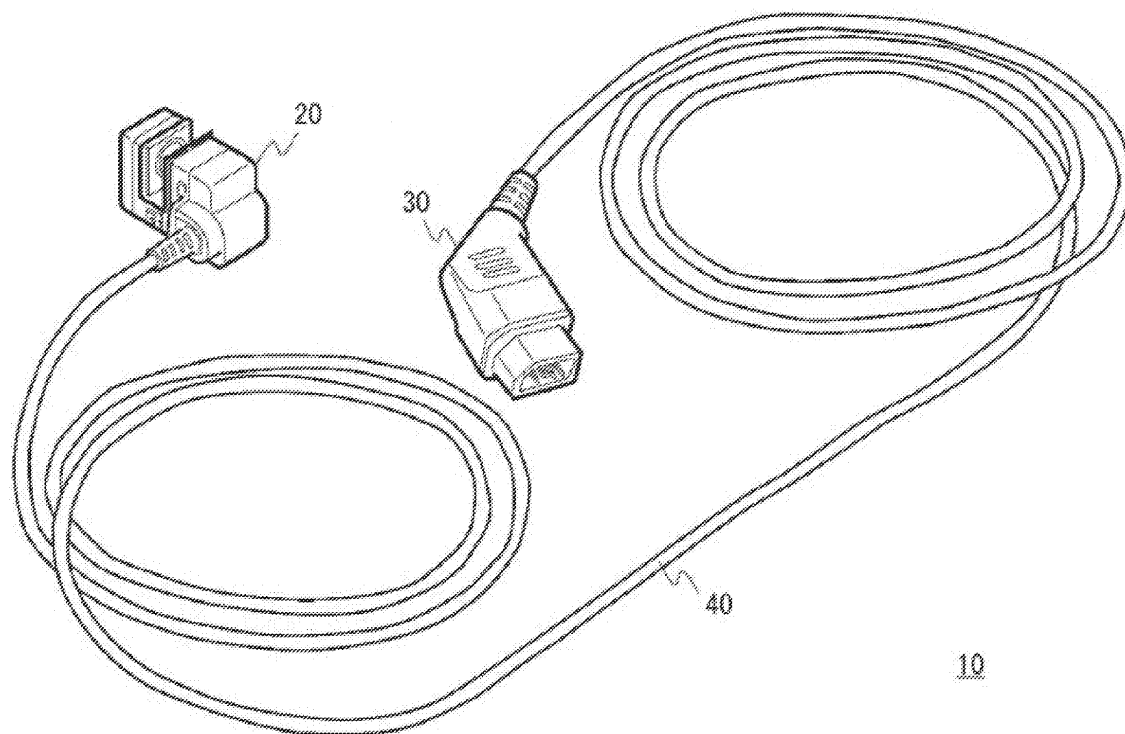
Family 10/20 - FAMPAT - ©Questel

Title

(US20160377532)

Gas sensor kit and gas measurement system

Images



Publication data including kind & date

US20160377532	A1	2016-12-29	US20160377532
JP2017015427	A	2017-01-19	JP2017015427



Abstract

(US20160377532)

To provide a gas sensor kit and a gas measurement system in which a problem in arrangement of a signal processor and an atmospheric pressure sensor at the time of measuring a gas is solved. A gas sensor kit includes a sensor and a connector. The connector includes an atmospheric pressure sensor measuring an atmospheric pressure and a signal processor. The signal processor receives a measurement signal indicating a transmitted light quantity of a target gas from the sensor and obtains a measurement value of a concentration or a partial pressure of the target gas based on the measurement signal. The signal processor corrects the measurement value of the concentration or the partial pressure of the target gas by using an atmospheric pressure value measured by the atmospheric pressure sensor.

Inventors

DAINOBU HIDETOSHI
INOUE MASAYUKI
TONE KATSUHIDE
SATO TAKANORI
YOSHIFUKU KAZUNORI

Latest standardized assignees - inventors removed

NIHON KOHDEN

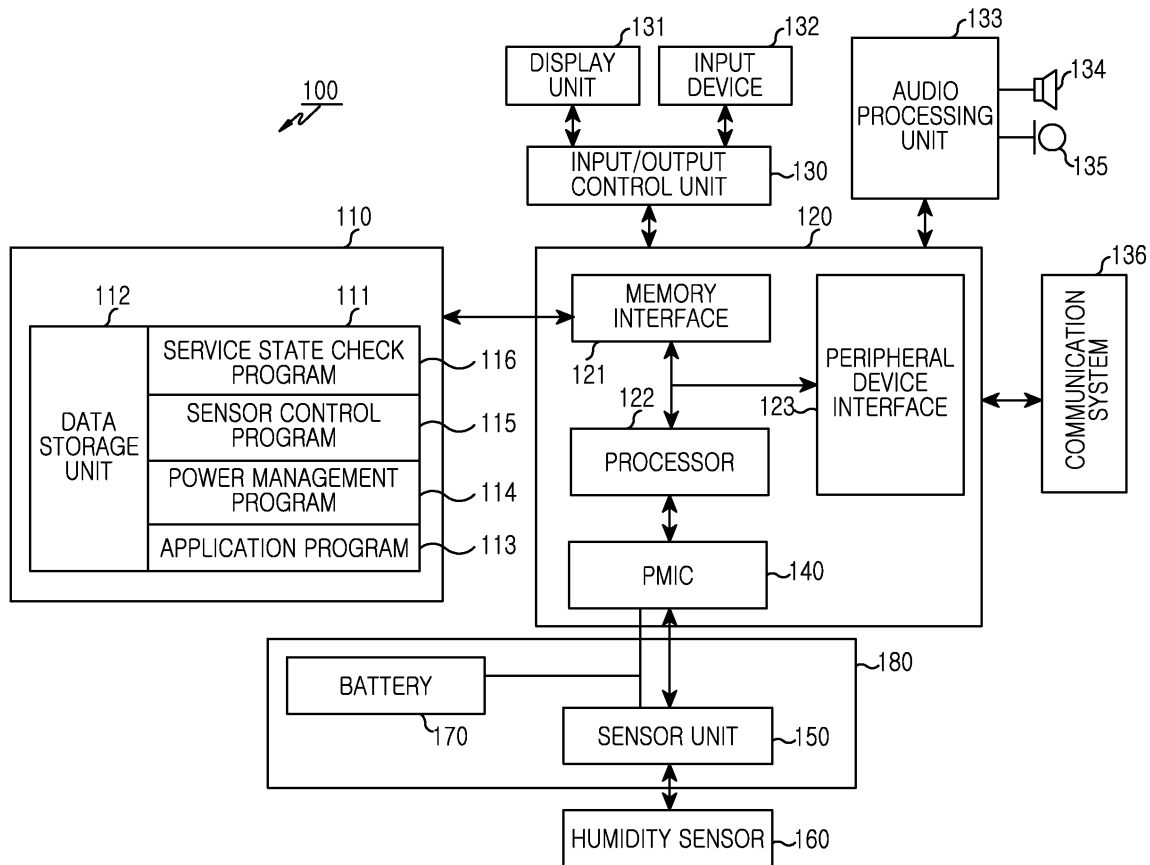
Family 11/20 - FAMPAT - ©Questel

Title

(US9484736)

Method for determining flooded state and electronic device thereof

Images



Publication data including kind & date

US20140307356	A1	2014-10-16	US20140307356
KR20140123802	A	2014-10-23	KR20140123802
US9484736	B2	2016-11-01	US9484736



Abstract

(US9484736)

Provided is an operating method of an electronic device including a first processor, a humidity sensor, a second processor controlling the humidity sensor, and a battery, wherein the second processor and the battery are waterproofed. The method may include: detecting a power supply event from the battery; supplying a power from the battery to the second processor controlling the humidity sensor and not supplying the power to the first processor; determining, by the second processor, a humidity of the electronic device by using the humidity sensor; and when the humidity of the electronic device is greater than a first reference humidity, cutting off power supply from the battery and when the humidity of the electronic device is less than the first reference humidity, supplying the power to the first processor.

Inventors

HONG HYUN-JU

CHOI SEUNG-KI

Latest standardized assignees - inventors removed

SAMSUNG ELECTRONICS

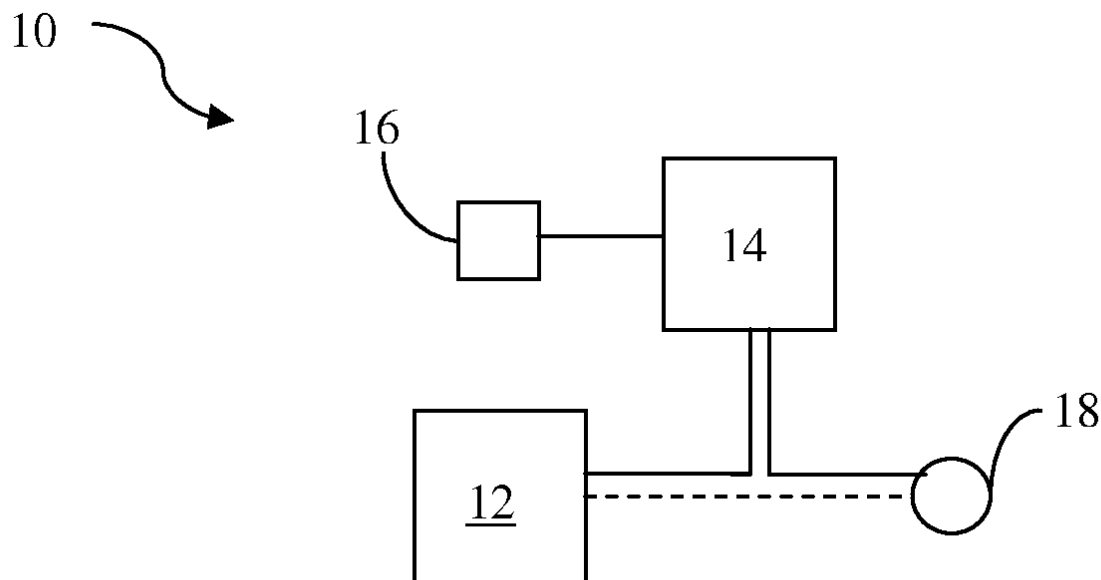
Family 12/20 - FAMPAT - ©Questel

Title

(EP2803125)

Methods, apparatuses and systems for monitoring for exposure of electronic devices to moisture and reacting to exposure of electronic devices to moisture

Images



Publication data including kind & date

KR20130082123	A	2013-07-18	KR20130082123				
WO2013106253	A1	2013-07-18	WO2013106253				
US20130182360	A1	2013-07-18	US20130182360				
TW201333739	A	2013-08-16	TW201333739				
CN103279145	A	2013-09-04	CN103279145				
JP2013176037	A	2013-09-05	JP2013176037				
AU2013208273	A1	2014-03-20	AU2013208273				
KR101455500	B1	2014-10-27	KR101455500				
EP2803125	A1	2014-11-19	EP2803125				
EP2803125	A4	2014-11-19	EP2803125				
US9071046	B2	2015-06-30	US9071046				
JP2015156703	A	2015-08-27	JP2015156703				
US20150303680	A1	2015-10-22	US20150303680				
JP5819330	B2	2015-11-24	JP5819330				
AU2013208273	B2	2015-11-26	AU2013208273				
TWI512516	B	2015-12-11	TWI512516				
EP2803125	B1	2016-09-14	EP2803125				
US9559514	B2	2017-01-31	US9559514				
JP6140213	B2	2017-05-31	JP6140213				
CN103279145	B	2017-07-28	CN103279145B				

Abstract

(EP2803125)

Systems and methods for monitoring the moisture to which an electronic device is exposed may alter or vary operation of the electronic device. Operation of the electronic device may be altered or varied to provide a notification that the electronic device has been exposed to moisture. When an electronic device is exposed to moisture, an operational mode of the electronic device may be changed. A change in the operational mode of the electronic device may include termination of the supply of power to one or more components, which may protect those components. Programs or apps that provide a user of the electronic device with information regarding exposure of the electronic device to an amount of moisture that meets or exceeds a moisture response threshold are also disclosed.

Inventors

STEVENS BLAKE

SORENSEN MAX

Latest standardized assignees - inventors removed

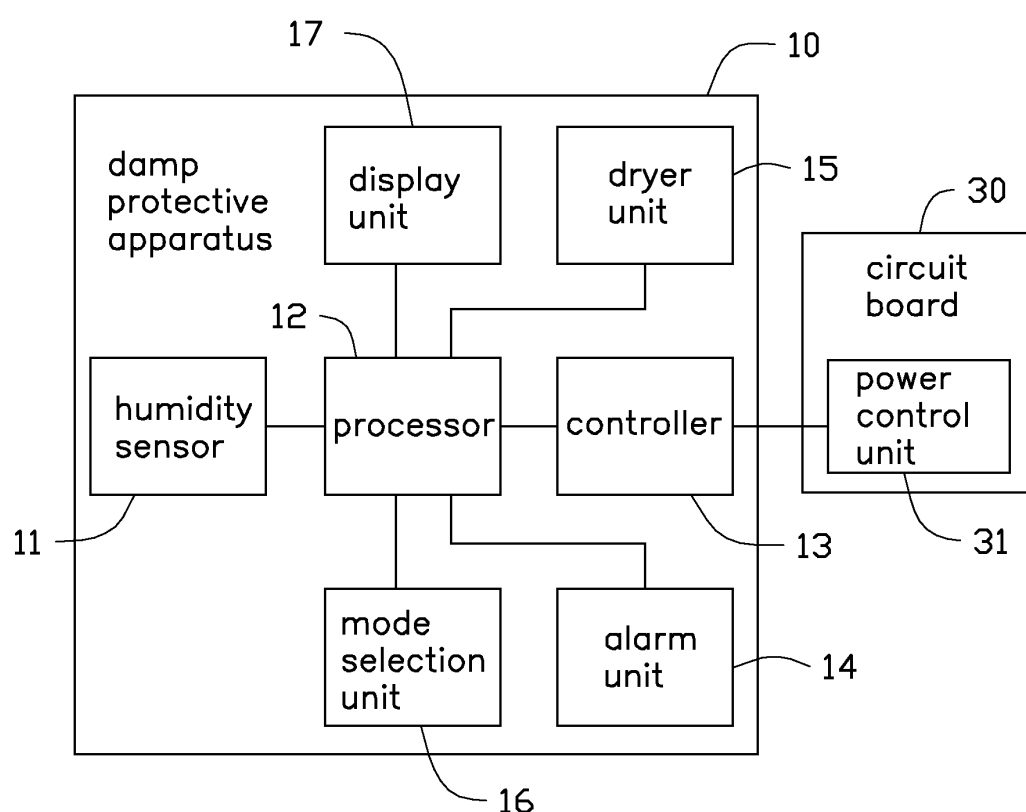
HZO

Family 13/20 - FAMPAT - ©Questel

Title

(US20140185177)

Dampness protective apparatus and electronic device using same

Images**Publication data including kind & date**[CN103901908](#)

A

2014-07-02

CN103901908

[US20140185177](#)

A1

2014-07-03

US20140185177

[TW201439476](#)

A

2014-10-16

TW201439476

**Abstract**

(US20140185177)

A dampness protective apparatus for an electronic device includes a humidity sensor, a processor and a controller. The humidity sensor detects an internal humidity of the electronic device. The processor is electrically connected to the humidity sensor, and determines whether the internal humidity of the electronic device is greater than or equal to a reference humidity. The controller is electrically connected to the processor and controls a circuit board in the electronic device to be powered off when the processor determines that the internal humidity of the electronic device is greater than the reference humidity.

Inventors

LI JIAN

Latest standardized assignees - inventors removed

HONGFUJIN PRECISION INDUSTRY SHENZHEN

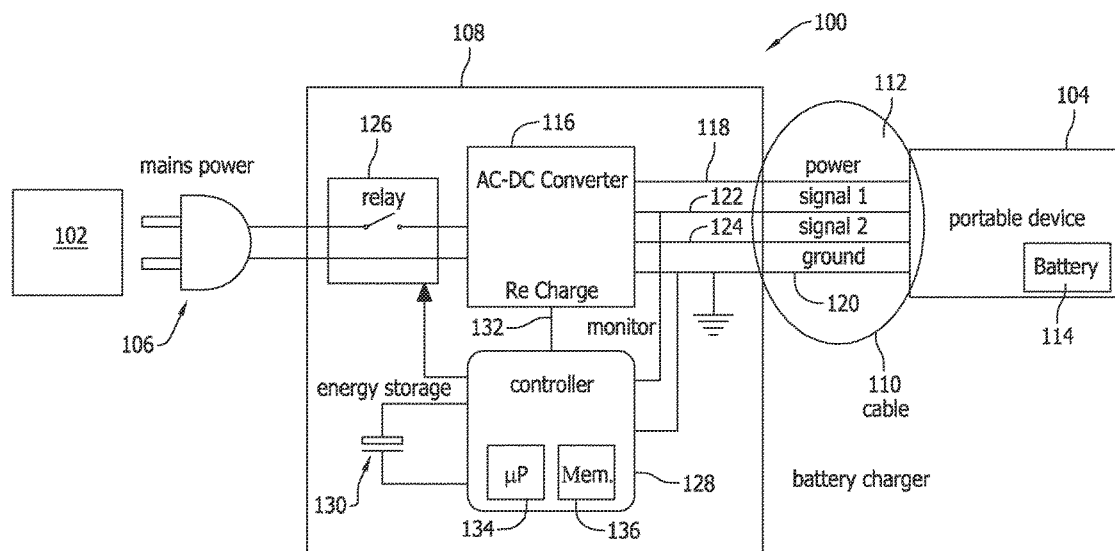
HON HAI PRECISION INDUSTRY

Family 14/20 - FAMPAT - ©Questel

Title

(EP2602906)

Electronic device state detection for zero power charger control, systems and methods

Images**Publication data including kind & date**

WO2013070595	A2	2013-05-16	WO2013070595
EP2602906	A2	2013-06-12	EP2602906
EP2602906	A3	2013-08-14	EP2602906
US20130207455	A1	2013-08-15	US20130207455
WO2013070595	A3	2013-10-10	WO2013070595
KR20140097177	A	2014-08-06	KR20140097177
CN104115360	A	2014-10-22	CN104115360
JP2015502129	A	2015-01-19	JP2015502129
IN3330CHN2014	A	2015-07-03	IN2014CN03330
CN104115360	B	2017-10-27	CN104115360B
US9805890	B2	2017-10-31	US9805890

**Abstract**

(EP2602906)

A charger appliance configured to determine a no-load, disconnected state from an electronic device having a rechargeable battery, and configured to determine a connected state of the charger with an electronic device in which recharging power may be supplied through the charger to the electronic device. Automatic connection and disconnection of a mains power supply is made depending on the detected state of the charger to avoid wasteful energy consumption in a no-load state. State detection may be determined by monitoring a voltage on one or more signal lines associated with the electronic device.

Inventors

DOLJACK FRANK ANTHONY

Latest standardized assignees - inventors removed

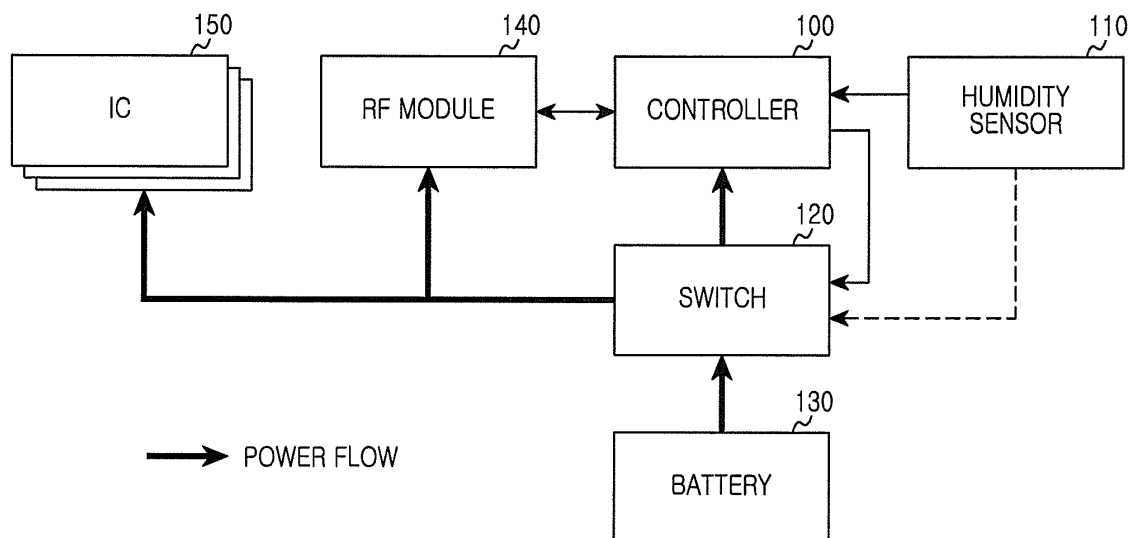
COOPER TECHNOLOGIES

Family 15/20 - FAMPAT - ©Questel

Title

(US9407744)

Apparatus and method for controlling power in portable terminal

Images**Publication data including kind & date**

US20130088094	A1	2013-04-11	US20130088094
KR20130037455	A	2013-04-16	KR20130037455
US9407744	B2	2016-08-02	US9407744

**Abstract**

(US9407744)

An apparatus performs a power control method for a portable terminal. The power control method includes measuring humidity around the portable terminal using a humidity sensor, and determining whether a flooding condition occurs based on the measured humidity. The method also includes turning off power of the portable terminal by releasing a connection with a battery that supplies power to the portable terminal when it is determined that the flooding condition occurs.

Inventors

PAIK MIN-CHULL

Latest standardized assignees - inventors removed

SAMSUNG ELECTRONICS

Family 16/20 - FAMPAT - ©Questel

Title

(EP1101155)

An intelligent electronic device for monitoring non-electrical characteristics

Publication data including kind & date

WO200073866	A1	2000-12-07	WO200073866
EP1101155	A1	2001-05-23	EP1101155
JP2003502001	A	2003-01-14	JP2003502001

**Abstract**

(EP1101155)

A method of monitoring non-electrical characteristics, i.e., temperature, humidity of pressure, of a protected load in an intelligent electronic device is presented. The method senses a non-electrical characteristic of the protected load to provide

a sensed non-electrical characteristic signal indicative of the non-electrical characteristic. The method processes the non-electrical characteristic signal to provide a relationship of the non-electrical characteristic signal. In an exemplary embodiment of the invention, the relationship of the non-electrical characteristic signal is compared to user defined thresholds to detect non-electrical fault conditions. For example, such non-electrical fault conditions may not exceed 85 DEG C or 90% relative humidity. In an alternative exemplary embodiment of the invention, the relationship of the non-electrical characteristic signal is processed for analysis purposes. The data is analyzed within the electronic trip unit itself, or alternatively communicated to a remote monitoring device, e.g., a computer.

Inventors

SANTOS ESTEBAN

RICCI ROBERT M

Latest standardized assignees - inventors removed

GENERAL ELECTRIC

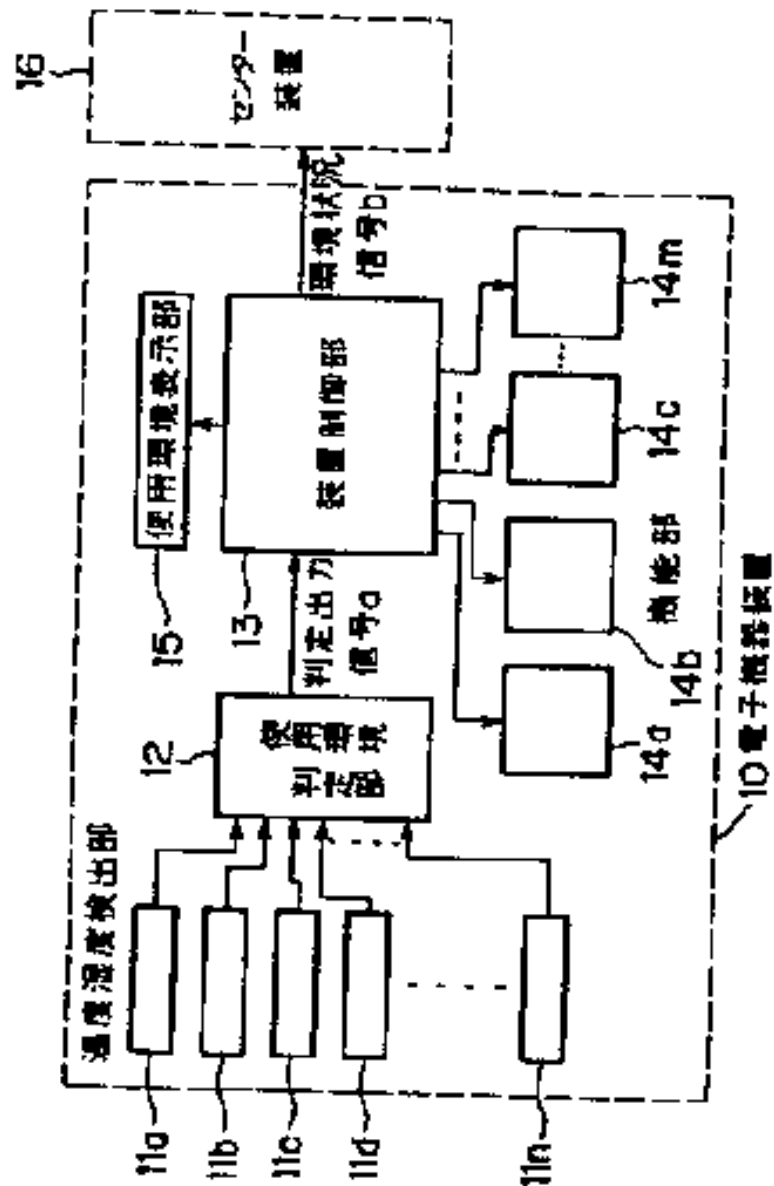
Family 17/20 - FAMPAT - ©Questel

Title

(JP04161021)

Electronic equipment device

Images



Publication data including kind & date

JPH04161021

A 1992-06-04 JP04161021



Abstract

(JP04161021)

PURPOSE: To prevent the occurrence of device troubles in advance by detecting temperature and/or humidity and judging whether the device can be operated or not, and by stopping the device, when the environment is not good for the device, displaying the matter. **CONSTITUTION:** When even one of temperature and humidity detectors 11a-11n fitted to each spot of an electronic equipment device 10 detects that the environment is not good for the operation of the device, an environment judging section 12 transmits to a device control section 13 an output signal (a) representing the judgment that the environment is not good. The device control section 13 displays 'improper condition' on an environment displaying

section 15, and advises users to wait to operate the device. And it transmits a command to stop the operational function of the device to each functional section 14a-14m.

Inventors

MIURA FUSAKI

Latest standardized assignees - inventors removed

PANASONIC

Family 18/20 - FAMPAT - ©Questel

Publication data including kind & date

JPH03124740

U 1991-12-17 JP03124740U



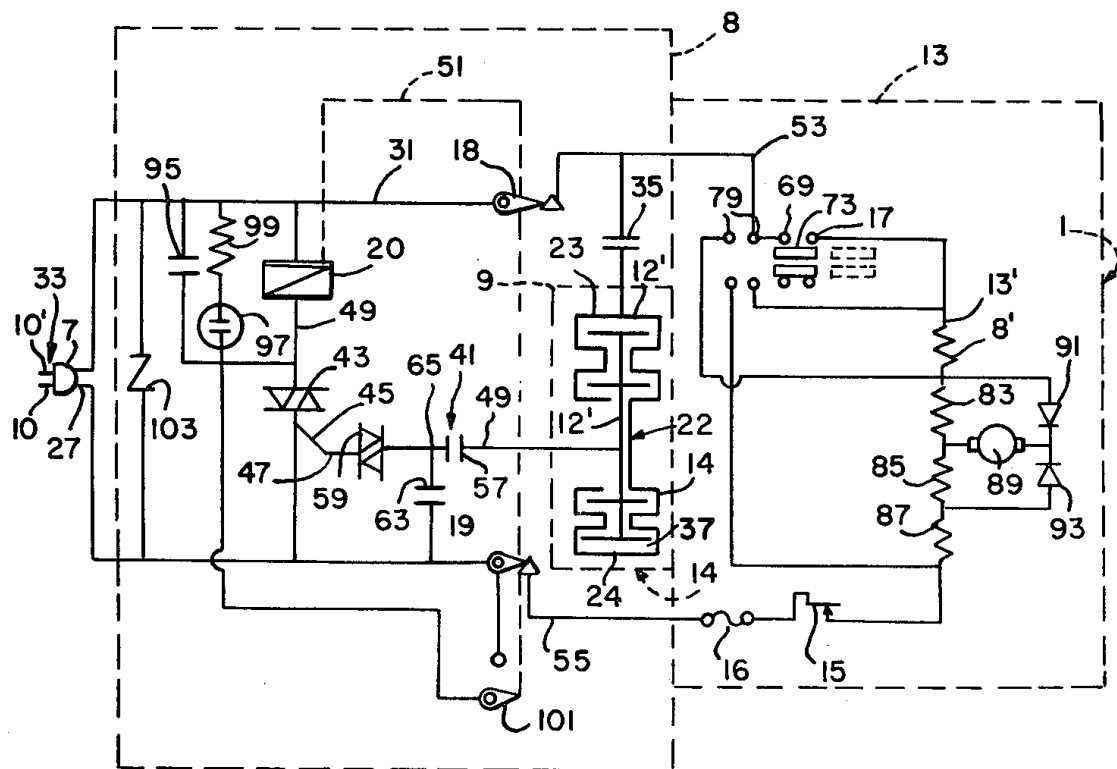
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Title

(US4464582)

Water-safe hair dryer circuit

Images



Publication data including kind & date

US4464582

A 1984-08-07 US4464582



Abstract

(US4464582)

An automatic power shut-off circuit for a wide variety of electrical appliances, such as hand-held hair dryers, razors, irons, hair curlers, etc. which pose a risk of electrocution when used around water. Thus, said circuit avoids the risk of dangerous shocks or even death, if the appliance should fall into a tub of water in which someone is bathing or if someone reaches or steps into water containing a plugged-in appliance, regardless of whether the switch of the appliance is on or off.

Inventors

ARAGAKI TSUNEHIDE

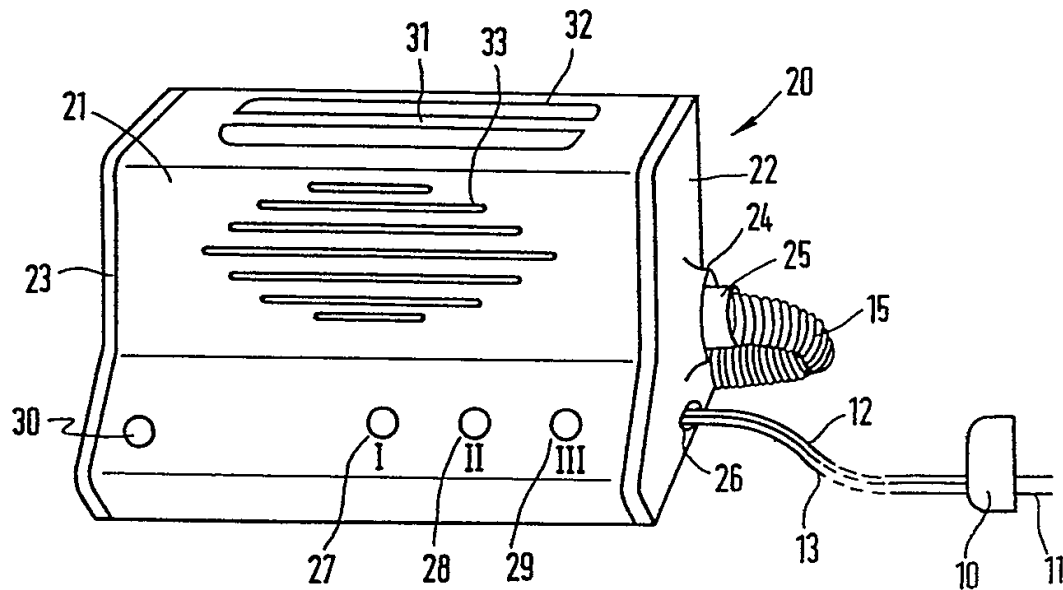
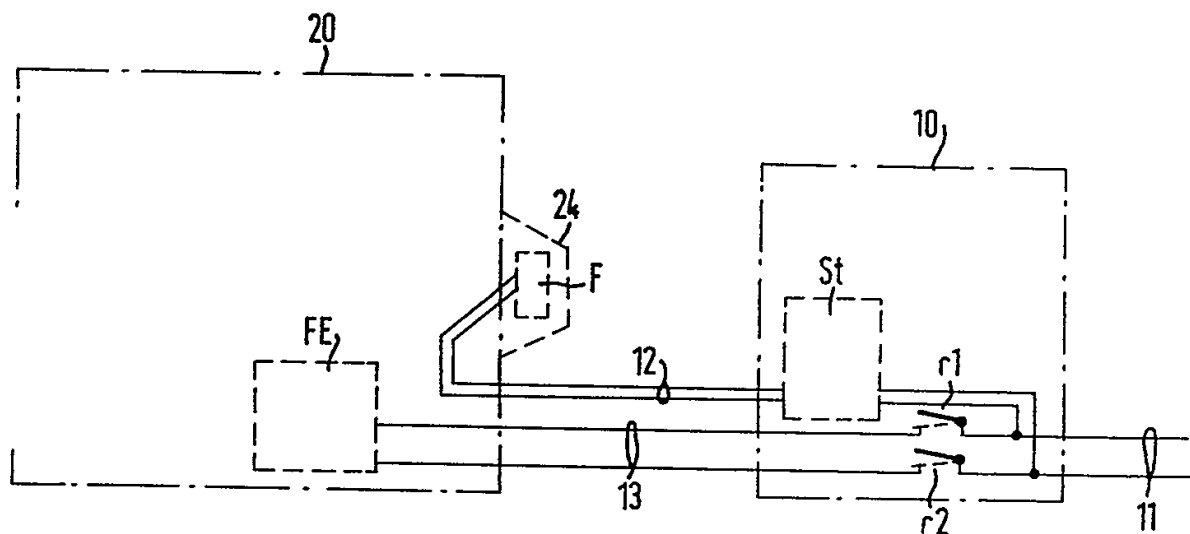
NOGUCHI YUKIO

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Title

(DE2631785)

Air bubble massager with bubble mat for bath - has moisture sensitive resistor in control circuit to cut off mains supply

Images**Fig.1****Publication data including kind & date**

DE2631785	A1	1977-04-07	DE2631785
CH596833	A5	1978-03-31	CH-596833
DE2631785	C2	1983-09-08	DE2631785

**Abstract**

(DE2631785)

The air bubble massager comprises a housing (20) containing functional units e.g. fan, heater, etc. and an air tube (15) via which compressed air is supplied to a bubble mat placed in the bath tub. In the housing is a sensor which responds to entry of moisture via the air tube and which controls an auxiliary control device (10) mounted outside the housing for completely interrupting mains supply to the housing. The auxiliary control device and main plug (11) may be combined in a single unit. The sensor may consist of a resistor of which the resistance depends on the degree of moisture in its environment, pref. two spaced metal strips mounted on an insulating support in a connector (24) between the housing and air tube and connected by a control wire (12) to the auxiliary control device. The control wire may be separate from the mains supply wire (13) but contained in the same sheath.

Inventors

SCHWAB, MARTIN, 8307 EFFRETIKON, CH

Latest standardized assignees - inventors removed

TECHNITRON ELEKTRIK BAAR