

PatBase - Search results 04 April 2018

Search query (2): [SP]: apparatuses and methods for controlling power to electronic devices methods and apparatuses for detecting when an electronic device has been exposed to moisture that could damage the electronic device, and inhibiting the flow of electrical power to the electronic device when the moisture level is too high are disclosed. embodiments sample air within the electronic device, measure the moisture in the sampled air, inhibit the connection of electrical power to the electronic device if the moisture exceeds a threshold, and permit the connection of electrical power to the electronic device if the moisture level is below a threshold. some embodiments measure the moisture in the ambient air to improve effectiveness. other embodiments allow resetting of a tripped condition. other embodiments include constant sampling of air from within the electronic device to assist drying, and inhibiting application of power to the electronic device until the electronic device is sufficiently dry. still other embodiments interrupt power from the electronic device's battery.

Results: 23

Search history

Search PN=(WO2015/006562) (Results 1)

1:

Search [SP]: apparatuses and methods for controlling power to electronic devices methods and apparatuses for detecting when an electronic device has been exposed to moisture that could damage the electronic device, and inhibiting the flow of electrical power to the electronic device when the moisture level is too high are disclosed. embodiments sample air within the electronic device, measure the moisture in the sampled air, inhibit the connection of electrical power to the electronic device if the moisture exceeds a threshold, and permit the connection of electrical power to the electronic device if the moisture level is below a threshold. some embodiments measure the moisture in the ambient air to improve effectiveness. other embodiments allow resetting of a tripped condition. other embodiments include constant sampling of air from within the electronic device to assist drying, and inhibiting application of power to the electronic device until the electronic device is sufficiently dry. still other embodiments interrupt power from the electronic device's battery. (Results 23)

Title: LUFTSPRUDELMASSEGERAET **AIR** BUBBLE MASSAGER WITH BUBBLE MAT FOR BATH - HAS **MOISTURE** SENSITIVE RESISTOR IN CONTROL CIRCUIT TO CUT OFF MAINS SUPPLY

Abstract: Source: DE2631785A1 [DE] luftsprudelmassagegeraet mit in einem Geraetagehaeuse untergebrachten Funktionseinheiten, wie Geblaese, Heizung oder dgl, sowie einem Luftschlauch, ueber den die erzeugte Druckluft einem in die Badewanne einlegbaren Sprudelrost zufuehrbar ist, dadurch ge kennzeichnet, dass im Geraetagehaeuse (20) ein Messfuehler (F) untergebracht ist, der beim Eindringen von Feuchtigkeit ueber den Luftschlauch (15) anspricht und ein ausserhalb des Geraetagehaeuses (20) angeord netes lllifssteuergeraet (10) steuert, welches dann die Zuleitung der Netzwechselfspannung zum Geraete gehaeuse (20) vollstaendig unterbricht. [EN] 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.

Classifications:

International (ipc 8-9): A61H33/02 H02H5/08 (Advanced/Invention);

H02H3/05 (Advanced/Non-invention);

A61H33/02 H02H5/00 (Core/Invention);

H02H3/05 (Core/Non-invention)

International (ipc 1-7): A61H33/02

CPC: A61H33/005 A61H33/60 A61H33/02 H02H5/083 A61H2033/023 H02H3/05

European: A61H33/02 H02H5/08B K61H33/02A9 T02H3/05

PatBase - DE2631785_A1

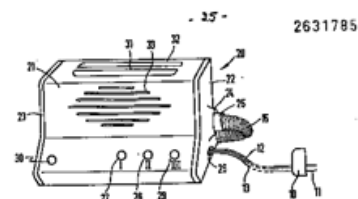


Fig.1

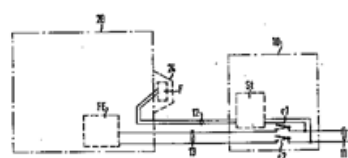


Fig.2

A61H 33-02 AT:25.07.1976 OE:07.04.1977
709814/0222

Family:

Publication number	Publication date	Application number	Application date
CH596833 A	19780331	CH19750012477	19750925
DE2631785 A1	19770407	DE19762631785	19760715
DE2631785 C2	19830908	DE19762631785	19760715

Priority:

CH19750012477 19750925

Probable Assignee: CREATIV PATENTANSTALT

Assignee(s): (std): CREATIV PATENTANSTALT ; TECHNITRON ELEKTRIK AG

Assignee(s): TECHNITRON ELEKTRIK AG BAAR CH ; TECHNITRON ELEKTRIK BAAR CH AG ; CREATIV PATENT ANSTALT

Inventor(s): (std): SCHWAB MARTIN

Inventor(s): SCHWAB MARTIN 8307 EFFRETIKON CH ; MARTIN SCHWAB

Title: WATER-SAFE HAIR DRYER CIRCUIT

Abstract: Source: US4464582A [EN] 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.

Classifications:

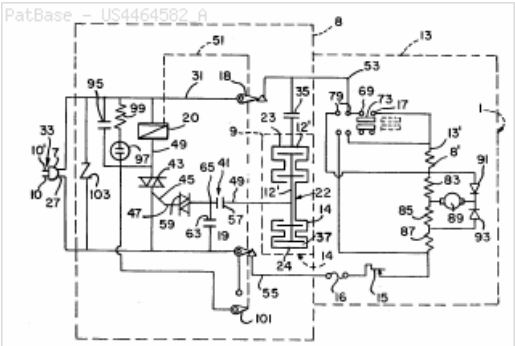
International (IPC 8-9): H02H5/08 (Advanced/Invention); H02H5/00 (Core/Invention)

International (IPC 1-7): H02H3/16

CPC: H02H5/083 Y10T307/779 Y10T307/944

European: H02H5/08B

US: 219/242 219/363 219/509 219/517 307/118 307/140 307/326 327/294 327/455 328/4 34/96 340/604 361/42 392/384



Family:

Publication number	Publication date	Application number	Application date
US4464582 A	19840807	US19820433652	19821012

Priority:

US19820433652 19821012

Probable Assignee: ARAGAKI TSUNEHIDE

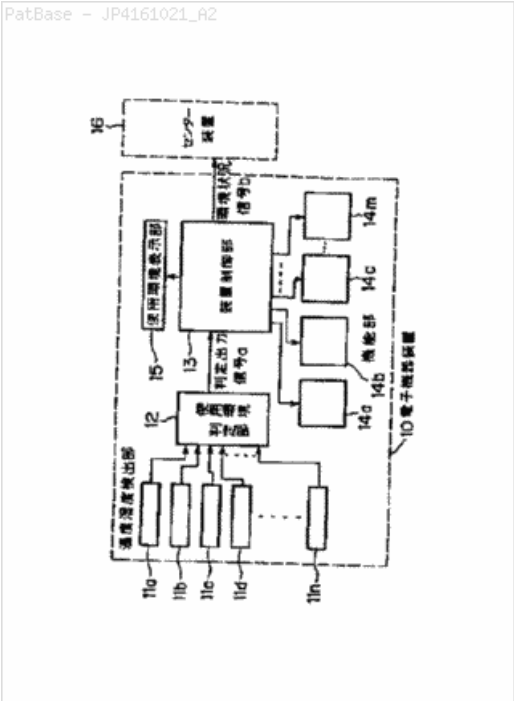
Assignee(s): (std): ARAGAKI TSUNEHIDE ; NOGUCHI YUKIO

Inventor(s): (std): ARAGAKI TSUNEHIDE ; NOGUCHI YUKIO

Title: ELECTRONIC EQUIPMENT DEVICE

Abstract: Source: JP4161021A [EN] 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.

Classifications:
International (IPC 8-9): H02H5/00 H02H5/04 (Advanced/Invention);
H02H5/00 (Core/Invention)
International (IPC 1-7): H02H5/00 H02H5/04



Family:

Publication number	Publication date	Application number	Application date
JP4161021 A2	19920604	JP19900285304	19901023

Priority:
JP19900285304 19901023

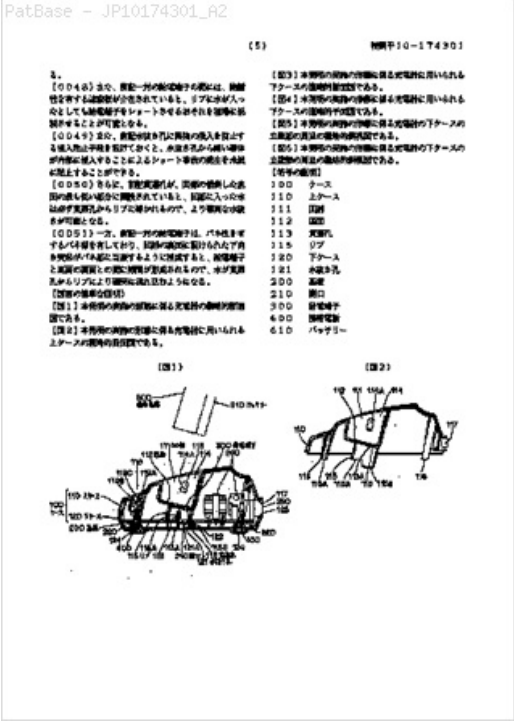
Probable Assignee: MATSUSHITA ELECTRIC IND CO LTD
Assignee(s): (std): MATSUSHITA ELECTRIC IND CO LTD
Inventor(s): (std): MIURA FUSAKI

Title: CHARGER

Abstract: Source: JP10174301A [EN] 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.

Classifications:

International (IPC 8-9): H02J7/00 H04B7/26 H04M1/02 H04Q7/32 H04W52/00 H04W88/02 (Advanced/Invention);
H02J7/00 H04B7/26 H04M1/02 H04Q7/32 (Core/Invention)
International (IPC 1-7): H02J7/00 H04B7/26 H04M1/02 H04Q7/32



Family:

Publication number	Publication date	Application number	Application date
JP10174301 A2	19980626	JP19960342768	19961206
JP3366541 B2	20030114	JP19960342768	19961206

Priority:

JP19960342768 19961206

Probable Assignee:

HOSIDEN CORP

Assignee(s): (std):

HOSIDEN CORP

Assignee(s):

HOSHIDEN CORP

Inventor(s): (std):

AMACHI RIYUUSUKE

Title: AN INTELLIGENT ELECTRONIC DEVICE FOR MONITORING NON-ELECTRICAL CHARACTERISTICS

Abstract: 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 degrees centigrade or 90 percent 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.

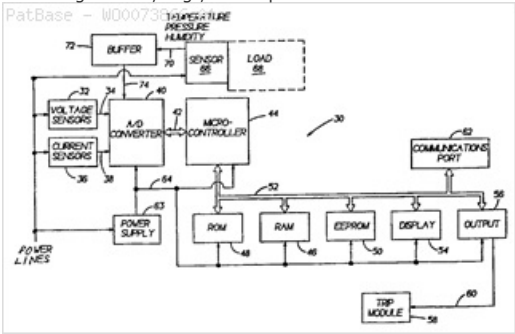
Classifications:

International (IPC 8-9): G05B23/02 H02H5/00 (Advanced/Invention);
G05B23/02 H02H5/00 (Core/Invention)

International (IPC 1-7): G05B23/02 H02H5/00

CPC: G05B23/0235

European: G05B23/02S4H2C



Family:

Publication number	Publication date	Application number	Application date
EP1101155 A1	20010523	EP20000937765	20000525
JP2003502001 T2	20030114	JP20010500920T	20000525
WO0073866 A1	20001207	WO2000US14409	20000525

Priority:

US19990322757 19990528 WO2000US14409 20000525

Probable Assignee: GEN ELECTRIC

Assignee(s): (std): GEN ELECTRIC

Assignee(s): GENERAL ELECTRIC COMPANY

Inventor(s): (std): RICCI ROBERT M ; SANTOS ESTEBAN

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

Title: MOBILE TELECOMMUNICATIONS TERMINAL

Abstract: Source: US2005079888A [EN] A mobile communication terminal device is disclosed having elements for detecting **moisture** in the device. These elements include the following precautionary features: a memory for recording a circumstance under which the detection of **moisture** takes place, a shutdown feature for shutting down the mobile communication terminal device at least partially if **moisture** has been detected, and a feature for determining two circumstances, namely that the mobile communications terminal has been at least partially shut down as a result of a detection of **moisture** and that the mobile communication terminal device has been connected to an external power supply and subsequent current is being drawn from the power supply. Once these two circumstances have been detected, a mode is activated by which the mobile communication terminal device is subjected to a heating phase and as a result, in turn, to a drying phase.

Classifications:

International (IPC 8-9): H04B1/38 H04M1/18

H04M1/73 (Advanced/Invention);

H04B1/38 H04M1/18 H04M1/72 (Core/Invention)

International (IPC 1-7): H04B7/00 H04M1/00 H04M1/02 H04M1/725

H04M1/73 H04M19/08 H04Q7/32

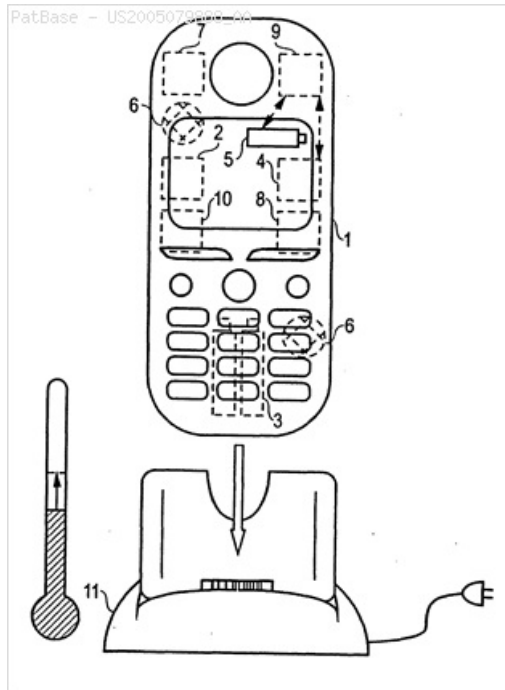
CPC: H04M1/18 H04M2250/12 H04W52/0251 Y02D70/00

European: H04M1/18 H04W52/02T6 T04M250/12

US: 219/501 34/13 34/210 34/380 34/595 34/80 360/128 436/2

455/466 455/550.1 455/550.100P 455/557 455/572 455/572S

455/66.1 455/66.100S 455/74.1 455/741 702/31



Family:

Publication number	Publication date	Application number	Application date
DE10203814 A1	20030814	DE20021003814	20020131
DE10203814 C2	20031127	DE20021003814	20020131
EP1470693 A2	20041027	EP20030704208	20030113
US2005079888 AA	20050414	US20040503351	20040730
US7050837 BB	20060523	US20040503351	20040730
WO03065691 A2	20030807	WO2003DE00076	20030113
WO03065691 A3	20031204	WO2003DE00076	20030113

Priority:

DE20021003814 20020131 WO2003DE00076 20030113

Probable Assignee: GIGASET COMMUNICATIONS GMBH

Assignee(s): (std): MENZ WOLFGANG ; PLUGGE THOMAS ; SIEMENS AG

Assignee(s): SIEMENS AKTIENGESELLSCHAFT ; GIGASET COMMUNICATIONS GMBH

Inventor(s): (std): PLUGGE THOMAS ; MENZ WOLFGANG

Agent(s): BELL BOYD AND LLOYD LLC

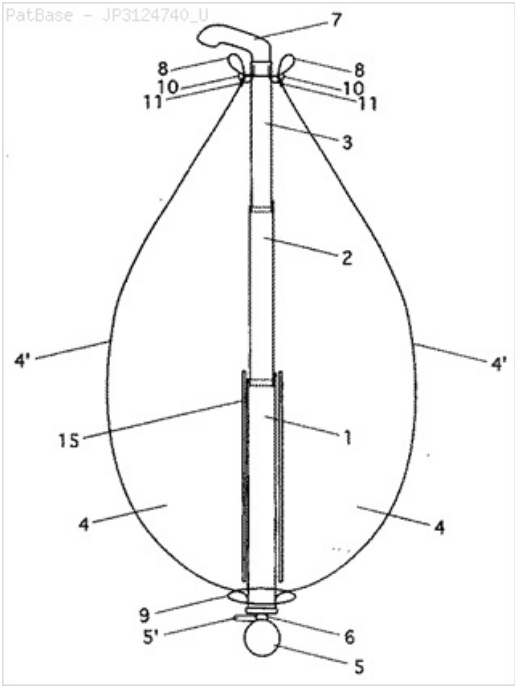
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI SK TR US

Title: Portable folding umbrella, caster bar with luggage bag (Machine translation)

Abstract: Source: JP3124740U

Machine translation: [summary] Provide portable umbrella, the caster bar with luggage bag folding umbrella combination cell phone, enter the bag and luggage casters tatami fold [challenge] was to carry the luggage. established five caster, the 5 'residue caster at one end of the main pillars sliding a tool of the mobile umbrella [resolution] means, 7 is provided at one end of the three handshake tool sliding main pillars, the center of the four input luggage bag 1.2.3 The main pillar is inserted as a primary tool sliding pillar, eight input string bag and luggage at the top binder binder bottom nine input luggage bag, luggage input device (10) hanging, hanging bag luggage to input 4 input luggage bag barrel tool (11) is formed by retaining hole, the structure of the caster bar with portable folding bag.

Classifications:
International (IPC 8-9): A45B25/18 A45B9/02
A45C15/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
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Priority:

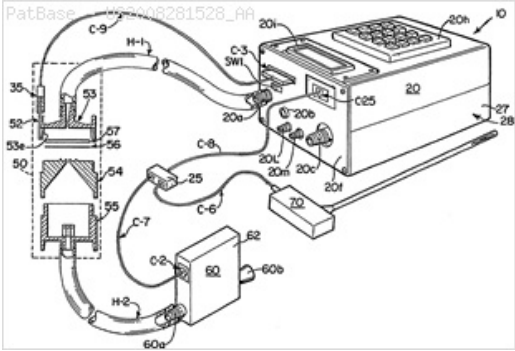
JP20060002506U 20060308

Title: SYSTEM AND METHOD FOR ENVIRONMENTAL SAMPLING AND DIAGNOSTIC EVALUATION

Abstract: Source: US2008281528A [EN] An environmental sampling system and method that collects biological contaminates in a removable cassette device via a sample capture media, such as a filter. The cassette device which is designed to specifically cause mixing of the [air](#) stream in a manner to get even distribution of the airborne particulates on the filter media has affixed thereto a data storage unit for storing other environmental parameters sensed and measured by the system in addition to the IAQ questionnaire information inputted by the investigator. After the sample period is complete, the system can be re-deployed in the field or environment by simply replacing the removable cassette device having the data storage unit. The collected biological contaminates in a removable cassette device and stored data in the affixed data storage unit are sent to a laboratory for analysis. The environmental sampling system may be operated independently of the removable cassette device to obtain and data log physical environmental data such as temperature, relative humidity, wind velocities, pressure differentials, and particulate counts.

Classifications:

International (IPC 8-9): G01F19/00 G01N31/00
G01N33/48 (Advanced/Invention);
G01F19/00 G01N31/00 G01N33/48 (Core/Invention)
CPC: G01N1/2273
European: G01N1/22G
US: 702/19 702/24 702/50 73/31.07



Family:

Publication number	Publication date	Application number	Application date
US2008281528 AA	20081113	US20060997495	20060803
WO07019337 A2	20070215	WO2006US30493	20060803
WO07019337 A3	20070426	WO2006US30493	20060803

Priority:

US20050705384P 20050803 US20060997495 20060803 WO2006US30493 20060803

Probable Assignee: RELLE JR LOUIS J

Assignee(s): (std): RELLE JR LOUIS J ; RELLE LOUIS

Inventor(s): (std): RELLE LOUIS ; RELLE JR LOUIS J

Agent(s): CARVER DARDEN DORETZKY TESSIER FINN BLOSSMAN AND AREAUX LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Abstract: Source: JP200713508A [EN] 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.

International (IPC 8-9): G10L13/00 G10L15/00 H04M1/00
H04M11/00 H04M11/04 H04Q9/00 (Advanced/Invention);
G10L13/00 G10L15/00 H04M1/00 H04M11/00 H04M11/04
H04Q9/00 (Core/Invention)

(1 1)

特許 5007-15000 (P.2000-15000A)

【図 1】

【図 2】

【図 3】

項目	項目名	項目内容
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Publication number	Publication date	Application number	Application date
JP2007135008 A2	20070531	JP20050326610	20051110

JP20050326610 20051110

Assignee(s): (std): SONY ERICSSON MOBILE COMM JP ; SONY ERICSSON MOBILECOMM JAPAN

Inventor(s): (std): UCHIDA TATSUYA

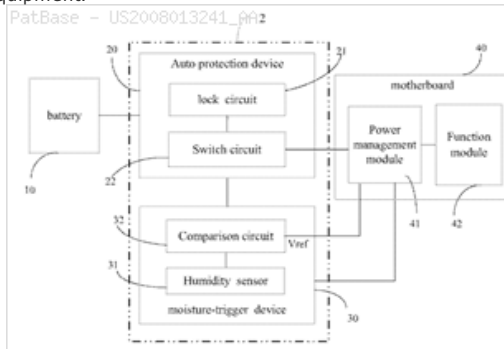
Title: HUMIDITY DETECTION AND POWER CUT-OFF DEVICE

Abstract: Source: US2008013241A [EN] 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.

Classifications:**International (IPC 8-9):** G01R27/02 H01H45/00 H02H1/00

H02H5/00 (Advanced/Invention);

G01R27/02 H01H45/00 H02H1/00 H02H5/00 (Core/Invention)

CPC: Y10T307/779 H02H5/083**European:** H02H5/08B**US:** 307/118 324/606 361/114**Family:**

Publication number	Publication date	Application number	Application date
CN101106264 A	20080116	CN200610061649	20060714
CN101106264 B	20101222	CN200610061649	20060714
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Priority:

CN200610061649 20060714

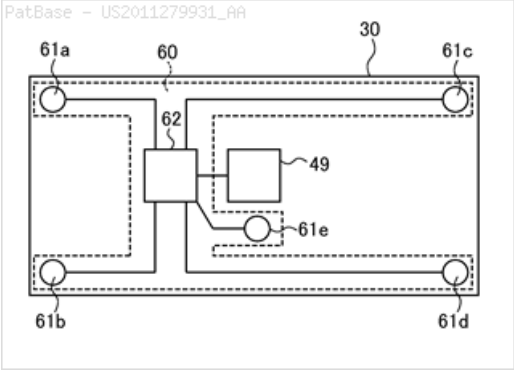
Probable Assignee: HONG FU JIN PRECISION IND SHENZHEN CO LTD**Assignee(s):** (std): HON HAI PREC IND CO LTD ; HONGFUJIN PREC IND SHENZHEN ; HONGFUJIN PRECISION IND SHENZHEN CO LTD ; HONHAI PRECISION IND CO LTD**Assignee(s):** HONGFUJIN PRECISION IND SHENZHEN CO ; HONGFUJIN PRECISION INDUSTRY SHENZHEN CO ; HONGFUJIN PRECISION INDUSTRY SHENZHEN CO LTD ; HON HAI PRECISION IND ; HON HAI PRECISION IND CO ; HON HAI PRECISION IND CO LTD ; HON HAI PRECISION INDUSTRY CO ; HONG FU JIN PRECISION IND (SHENZHEN) CO LTD ; HONG FU JIN PRECISION INDUSTRY SHENZHEN CO ; HONG FU JIN PRECISION IND ; HON HAI PRECISION INDUSTRY CO LTD ; HONG FU JIN PRECISION INDUSTRY SHENZHEN CO LTD ; HONG FU JIN PRECISION IND SHENZHEN CO LTD ; HONG FU JIN PRECISION IND SHENZHEN CO LTD ; HONG FU JIN PRECISION IND SHENZHEN CO**Inventor(s):** (std): CHUANG TSUNG JEN ; CUI WEN JIAN ; JUNWEI ZHANG ; SHIFANG WENG ; WENJIAN CUI ; WONG SHIH FANG ; ZHANG JUN WEI ; ZONGREN ZHUANG**Inventor(s):** ZHANG JUNWEI ; ZHUANG ZONGREN ; WENG SHIFANG ; CUI WENJIAN**Agent(s):** PCE IND INC ATT CHENG JU CHIANG JEFFREY T KNAPP; FRANK R

Title: ELECTRONIC DEVICE

Abstract: Source: US2011279931A [EN] 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.

Classifications:

International (IPC 8-9): G01N27/22 G01R27/26 G06F1/00 H02H9/02 H04M1/00 H04M1/725 (Advanced/Invention); G01R27/26 H04M1/00 (Core/Invention)
CPC: H04M1/72522 G01M3/16 G01N27/223 G06F1/1626 G06F1/1635 H04B1/0466 H04M1/18
European: G01M3/16 G06F1/16P3 G06F1/16P9B H04M1/725F1 S01N27/22C T04B1/04F T04M1/18
US: 361/42 361/42P 361/93.1



Family:

Publication number	Publication date	Application number	Application date
CN102217291 A	20111012	CN200980146270	20091125
JP2010130255 A2	20100610	JP20080301750	20081126
JP5074360 B2	20121114	JP20080301750	20081126
US2011279931 AA	20111117	US20090130776	20091125
US8416542 BB	20130409	US20090130776	20091125
WO10061593 A1	20100603	WO2009JP06354	20091125

Priority:

JP20080301750 20081126 WO2009JP06354 20091125

Probable Assignee: KYOCERA CORP

Assignee(s): (std): KYOCERA CORP ; NAKAMURA MASATSUGU

Inventor(s): (std): NAKAMURA MASATSUGU ; MASATSUGU NAKAMURA

Agent(s): HOFFMAN AND BARON LLP; SHOBAYASHI MASAYUKI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: THERMAL PROTECTION CIRCUITS FOR ELECTRONIC DEVICE CABLES

Abstract: Source: US2011104940A [EN] 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.

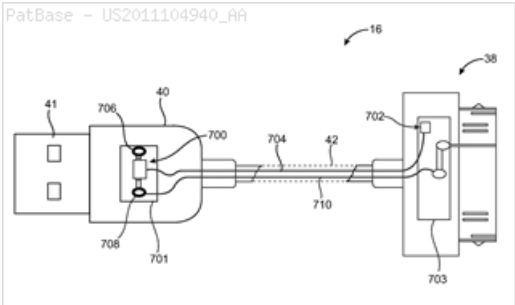
Classifications:

International (IPC 8-9): H01R11/00 H02H5/04 (Advanced/Invention); H01R13/68 (Advanced/Non-invention)

CPC: H01R13/7137 H01R31/065

European: H01R13/713T H01R31/06B

US: 361/104 439/502 439/502P 439/620.26 439/620.260S



Family:

Publication number	Publication date	Application number	Application date
US2011104940 AA	20110505	US20090611900	20091103
US8498087 BB	20130730	US20090611900	20091103

Priority:

US20090611900 20091103

Probable Assignee: APPLE INC
Assignee(s): (std): APPLE INC ; HOLLABAUGH JAMES M ; RABU STANLEY
Inventor(s): (std): HOLLABAUGH JAMES M ; RABU STANLEY
Agent(s): WOMBLE CARLYLE SANDRIDGE AND RICE LLP

Title: SENSOR STRUCTURE

Abstract: Source: US2012085324A [EN] A sensor structure capable of achieving both resistance to pollution and measurement performance such as humidity responsiveness is disclosed as is a multifunction sensor capable of facilitating integration of detecting devices for various physical quantities. The sensor structure includes a housing including a connector that mediates an input/output exchange with an outside and a terminal of the connector; and an electronic circuit board that is mounted inside of the housing and includes a humidity sensing element, the terminal of the connector and the electronic circuit board being electrically connected to each other, the sensor structure being inserted to be attached to an airflow tube through which a main **air** flows, via a seal material provided in the housing. The housing includes a plurality of bypass channels that each communicate an inside of the housing with an inside of the airflow tube.

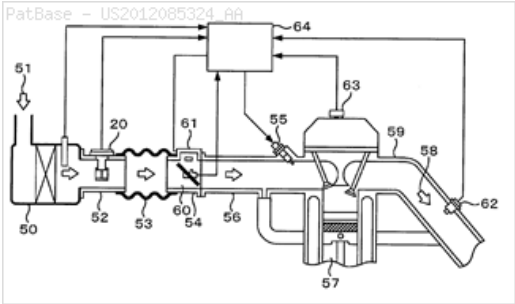
Classifications:

International (IPC 8-9): F02M35/10 F02M51/00 G01D21/02 G01F1/68 G01F1/684 G01M15/04 G01N27/00 G01N33/00 (Advanced/Invention)

CPC: F02M35/10393 F02M35/1038 F02M35/10386 G01F1/684 G01F5/00

European: F02M35/10S6 G01F1/684 G01F5/00 R02M35/10S2 R02M35/10S4

US: 123/494 73/114.45 73/114.450S



Family:

Publication number	Publication date	Application number	Application date
CN102538867 A	20120704	CN201110305311	20110930
CN102538867 B	20150610	CN201110305311	20110930
EP2439499 A1	20120411	EP20110184258	20111007
JP2012083119 A2	20120426	JP20100227131	20101007
US2012085324 AA	20120412	US20110267419	20111006

Priority:

JP20100227131 20101007

Probable Assignee: HITACHI AUTOMOTIVE SYSTEMS LTD

Assignee(s): (std): HITACHI AUTOMOTIVE SYSTEMS LTD ; KOBAYASHI CHIHIRO ; SAITO TAKAYUKI

Inventor(s): (std): CHIHIRO KOBAYASHI ; KOBAYASHI CHIHIRO ; SAITO TAKAYUKI ; TAKAYUKI SAITO

Agent(s): MERH IP MATIAS ERNY REICHL HOFFMANN; INOUE MANABU

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: MOBILE PHONE

Abstract: Source: US2012231841A [EN] A mobile phone comprises a casing and a cavity in the casing. A humidity sensor is arranged for measuring a humidity in the cavity. In response to a trigger, a control unit analyzes a humidity signal supplied by the humidity sensor. A result of the analysis is presented via an output unit. Such device allows for measuring a humidity of a user's skin in case the user covers a window in the casing connected to the cavity by a body part.

Classifications:

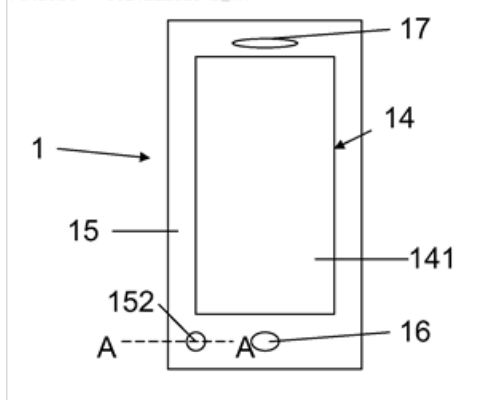
International (IPC 8-9): A61B5/00 A61B5/107 H04B1/40 H04B17/00 H04M1/00 H04M1/02 H04M1/21 H04W88/02 (Advanced/Invention)

CPC: H04M1/21 H04M2250/12 G01N27/223 A61B5/443 A61B5/6898 A61B2562/029

European: H04M1/21 T04M250/12

US: 370/338 455/556.1 455/67.11

PatBase - US2012231841_AA



Family:

Publication number	Publication date	Application number	Application date
EP2498481 A1	20120912	EP20110001945	20110309
JP2012191619 A2	20121004	JP20120051809	20120308
JP5963481 B2	20160803	JP20120051809	20120308
KR20120103482 A	20120919	KR20120023826	20120308
US2012231841 AA	20120913	US20120398439	20120216
US8838037 BB	20140916	US20120398439	20120216

Priority:

EP20110001945 20110309

Probable Assignee: SENSIRION AG

Assignee(s): (std): GERNER PASCAL ; GRAF MARKUS ; SENSIRION AG ; SCHUMM JOHANNES ; NIEDERBERGER DOMINIK

Inventor(s): (std): DOMINIK NIEDERBERGER ; GERNER PASCAL ; NIEDERBERGER DOMINIK ; GRAF MARKUS ; MARKUS GRAF ; JOHANNES SCHUMM ; SCHUMM JOHANNES ; PASCAL GERNER

Agent(s): TOLETI MARTIN; COOPER AND DUNHAM LLP

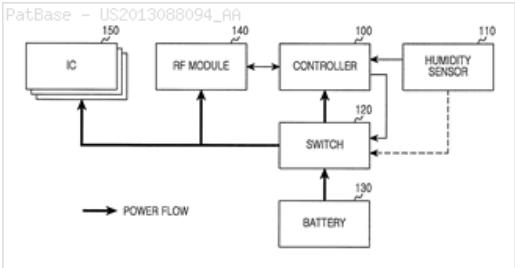
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: APPARATUS AND METHOD FOR CONTROLLING POWER IN PORTABLE TERMINAL

Abstract: Source: US2013088094A [EN] 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.

Classifications:

International (IPC 8-9): H01H3/00 H01H35/42 H02H5/00 H04B1/40 H04M1/18 H04M1/725 (Advanced/Invention)
CPC: H01H3/00 H04M1/18 H04M1/72519 H04M2250/12 Y10T307/779
US: 1/1 307/118



Family:

Publication number	Publication date	Application number	Application date
KR20130037455 A	20130416	KR20110101860	20111006
US2013088094 AA	20130411	US20120618631	20120914
US9407744 BB	20160802	US20120618631	20120914

Priority:

KR20110101860 20111006

Probable Assignee: SAMSUNG ELECTRONICS CO LTD
Assignee(s): (std): PAIK MIN CHULL ; SAMSUNG ELECTRONICS CO LTD
Assignee(s): SAMSUNG ELECTRONICS CO
Inventor(s): (std): PAIK MIN CHUL ; PAIK MIN CHULL

Title: ELECTRONIC DEVICE STATE DETECTION FOR ZERO POWER CHARGER CONTROL, SYSTEMS AND METHODS

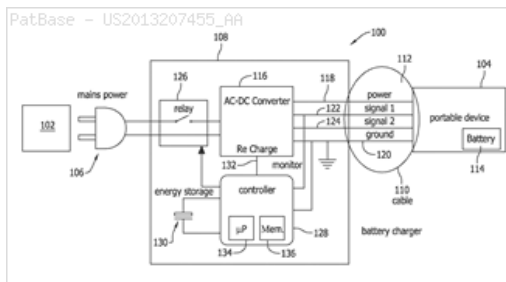
Abstract: Source: US2013207455A [EN] A charger appliance configured to determine a no-load, disconnected state from an electronic device having a rechargeable battery, and configured to determine a connected state of the charger with an electronic device in which recharging power may be supplied through 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.

Classifications:

International (IPC 8-9): H01H35/00 H02J1/00 H02J7/00 H02J7/02 H02J9/00 (Advanced/Invention)

CPC: H01H35/00 H02J7/0036 H02J9/005 H02J2007/0062 H02J2009/007 Y10T307/50 Y10T307/858

US: 307/130 307/43 307/9.1



Family:

Publication number	Publication date	Application number	Application date
CN104115360 A	20141022	CN201280053276	20121106
CN104115360 B	20171027	CN201280053276	20121106
EP2602906 A2	20130612	EP20120191557	20121107
EP2602906 A3	20130814	EP20120191557	20121107
IN03330CN2014 A	20150703	IN2014CN03330	20140502
JP2015502129 T2	20150119	JP20140541156T	20121106
KR20140097177 A	20140806	KR20147013158	20121106
US2013207455 AA	20130815	US20120662988	20121029
US9805890 BB	20171031	US20120662988	20121029
WO13070595 A2	20130516	WO2012US63695	20121106
WO13070595 A3	20131010	WO2012US63695	20121106

Priority:

US20110556577P 20111107 US20120662988 20121029 WO2012US63695 20121106

Probable Assignee: COOPER TECHNOLOGIES CO

Assignee(s): (std): COOPER TECHNOLOGIES CO

Assignee(s): COOPER TECHNOLOGIES COMPANY

Inventor(s): (std): DOLJACK FRANK ANTHONY

Agent(s): SMEE ANTHONY JAMES MICHAEL; AOKI ATSUSHI; TSURUTA JUNICHI; ARMSTRONG TEASDALE LLP; ATKINS BRUCE T ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHODS, APPARATUSES AND SYSTEMS FOR MONITORING FOR EXPOSURE OF ELECTRONIC DEVICES TO **MOISTURE** AND REACTING TO EXPOSURE OF ELECTRONIC DEVICES TO **MOISTURE**

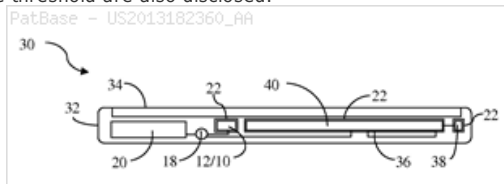
Abstract: Source: US2013182360A [EN] Systems and methods for monitoring the **moisture** to which an electronic device is exposed may alter or vary operation of the electronic device. Operation of the electronic device may be altered or varied to provide a notification that the electronic device has 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.

Classifications:

International (IPC 8-9): G01N27/00 G01N27/02 G01N27/04 G01N27/22 G01R27/26 G01R31/02 G01R35/00 G05B19/048 G05D22/02 G06F1/00 G06F1/16 G06F1/26 G06F1/28 G06F11/30 G06F19/00 G06F9/44 G08B21/00 G08B21/20 G08B25/10 G08B27/00 G08B3/10 G08B5/22 H02H5/00 H02H5/08 H02H7/127 H03K17/94 H04M1/00 H04M1/18 H05B1/02 (Advanced/Invention)

CPC: G01N27/02 G01R35/005 G01R27/2605 G01R27/2611 H05B1/02 G06F1/1656 G06F1/28 H03K17/94 G01R31/02 G08B25/10 G08B27/00 G08B3/10 G08B5/226 H02H5/08 G06F1/00 G06F1/26 G06F9/44 G06F11/30 H02H5/00 G01N27/023 H02H5/083 G01N27/223 G08B21/20 G01N27/048

US: 1/1 219/209 219/509 324/538 324/601 324/649 324/654 324/658 324/664 324/691 340/604 361/1 361/71 361/78 361/93.1



Family:

Publication number	Publication date	Application number	Application date
AU2013208273 AA	20130718	AU20130208273	20130104
AU2013208273 BB	20151126	AU20130208273	20130104
CN103279145 A	20130904	CN201310068272	20130110
CN103279145 B	20170728	CN201310068272	20130110
CN104067184 A	20140924	CN201480000598	20140108
CN104067184 B	20160316	CN201480000598	20140108
CN106415287 A	20170215	CN201480076938	20140812
DE602013011585 D1	20161027	DE201360011585T	20130104
EP2791746 A1	20141022	EP20140728074	20140108
EP2791746 A4	20150506	EP20140728074	20140108
EP2803125 A1	20141119	EP20130736121	20130104
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EP2803125 B1	20160914	EP20130736121	20130104
EP3092503 A1	20161116	EP20140878260	20140812
EP3092503 A4	20170315	EP20140878260	20140812
JP2013176037 A2	20130905	JP20130001725	20130109
JP2015156703 A2	20150827	JP20150084659	20150417
JP2015233311 A2	20151224	JP20150147426	20150727
JP2015513664 T2	20150514	JP20140556843T	20140108
JP2017507325 T2	20170316	JP20160546009T	20140812
JP5819330 B2	20151124	JP20130001725	20130109
JP6140213 B2	20170531	JP20150084659	20150417
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KR20160144345 A	20161216	KR20167021567	20140812
TW201333739 A	20130816	TW20130100828	20130110
TWI512516 B	20151211	TW20130100828	20130110
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US2015303680 AA	20151022	US20150788436	20150630
US2016019773 AA	20160121	US20150871105	20150930
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WO13106253 A1	20130718	WO2013US20376	20130104
WO14110159 A1	20140717	WO2014US10720	20140108
WO15105531 A1	20150716	WO2014US50732	20140812

Priority:

EP20130736121	20130104	JP20130001725	20130109	US20120584933P	20120110
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US20130734779	20130104	US20140448541	20140731	US20140320799	20140701
US20140150534	20140108	US20130750328P	20130108	US20150788436	20150630
US20150871105	20150930	US20150868825	20150929	WO2013US20376	20130104
WO2014US10720	20140108	WO2014US50732	20140812		

Probable Assignee: HZO INC

Assignee(s): (std): HZO INC ; STEVENS BLAKE ; SORENSON MAX

Assignee(s): SQUARE 1 BANK ; HZO INC DRAPER ; PACIFIC WESTERN BANK AS SUCCESSOR IN INTEREST BY MERGER TO SQUARE 1 BANK ; CATHAY BANK

Inventor(s): (std): BLAKE STEVENS ; HARPER MARCELLUS ; MAX SORENSON ; MAYNARD JASON ; SORENSON MAX ; STEVENS BLAKE

Inventor(s): STEVENS BLAKE NEW YORK ; SORENSON MAX COTTONWOOD HEIGHTS

Agent(s): PATENT ATTORNEY SERVICES; BANSE AND STEGLICH; HGF LTD; HOSHINO OSAMU; ONO SHINJIRO; TOMITA HIROYUKI; KOBAYASHI YASUSHI; YAMAMOTO OSAMU; TAKEUCHI SHIGEO; DURHAM JONES AND PINEGAR INTELLECTUAL PROPERTY LAW GROUP; DURHAM JONES AND PINEGAR PC INTELLECTUAL PROPERTY LAW GROUP; DURHAM JONES AND PINEGAR PC; LUNZLER LAW GROUP; POWER BRICK G ET AL; NIXON JASON P ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

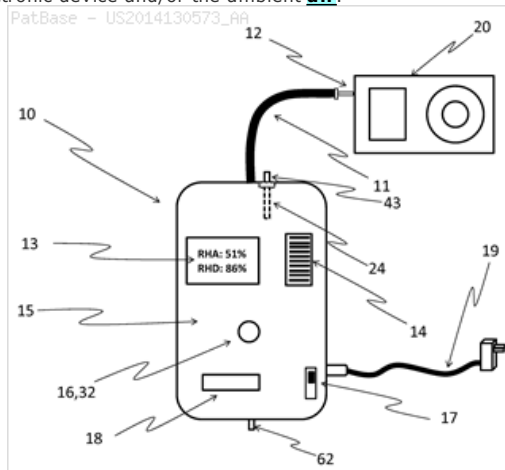
Title: METHODS AND APPARATUSES FOR DETECTING **MOISTURE**

Abstract: Source: US2014130573A [EN] Methods and apparatuses for detecting **moisture** are disclosed. Embodiments detect the existence and/or level of **moisture** in electronic devices, such as by using one or more **moisture** sensors that removably connect to a pre-existing port in the electronic device (such as a headphone jack or similar port). Some embodiments detect a component of the ambient **air** (such as **moisture** level) to improve the accuracy of the **moisture** detector. Some embodiments decrease pressure at the port using a pneumatic pump and move gas from the electronic device into the **moisture** detector. Some embodiments detect the movement of **air** in the vicinity of at least one **moisture** sensor (such as by measuring pressure) and use this information to improve the accuracy of the **moisture** detector. Some embodiments display information related to the **moisture** in the electronic device and/or the ambient **air**.

Classifications:**International (IPC 8-9):** G01N19/10 G01N27/04

G01N33/18 (Advanced/Invention);

G01N1/24 (Advanced/Non-invention)

CPC: G01N19/10 G01N1/24 G01N27/048**US:** 73/29.01 73/29.02 73/29.03**Family:**

Publication number	Publication date	Application number	Application date
US2014130573 AA	20140515	US20130080595	20131114
US2014260543 AA	20140918	US20130080705	20131114
US9488564 BB	20161108	US20130080595	20131114
US9488565 BB	20161108	US20130080705	20131114
WO14078584 A1	20140522	WO2013US70178	20131114

Priority:

US20120726151P 20121114

US20130080595 20131114

US20130080705 20131114

Probable Assignee: REVIVE ELECTRONICS LLC**Assignee(s):** (std): REVIVE ELECTRONICS LLC**Assignee(s):** US BANK NATIONAL ASSOCIATION ; MOOREHEAD COMMUNICATIONS INC ; REVIVE ELECTRONICS LLC**Inventor(s):** (std): TRUSTY JOEL CHRISTOPHER ; TRUSTY MICAH NEIL ; ZIELINSKI REUBEN QUINCEY ; ZIELINSKI RUEBEN QUINCEY**Agent(s):** BAKER AND MCKENZIE LLP; GALLAGHER DOUGLAS G**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DAMPNES PROTECTIVE APPARATUS AND ELECTRONIC DEVICE USING SAME

Abstract: Source: US2014185177A [EN] 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.

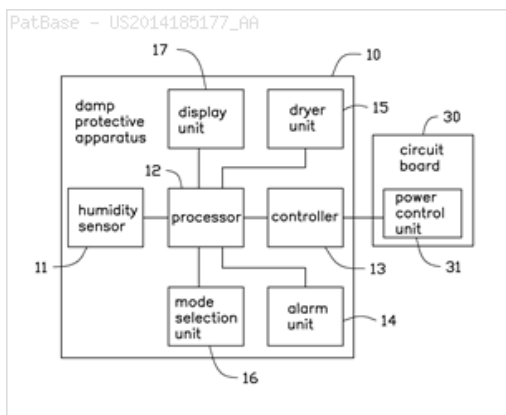
Classifications:

International (IPC 8-9): F24F3/14 G05D22/02

H02H5/08 (Advanced/Invention)

CPC: H02H5/083

US: 361/115



Family:

Publication number	Publication date	Application number	Application date
CN103901908 A	20140702	CN201210577643	20121227
TW201439476 A	20141016	TW20130102956	20130125
US2014185177 AA	20140703	US20130098600	20131206

Priority:

CN201210577643 20121227

Probable Assignee: HON HAI PRECISION IND CO LTD

Assignee(s): (std): HON HAI PREC IND CO LTD ; HONHAI PRECISION IND CO LTD ; HONGFUJIN PREC IND WUHAN ; HONGFUJIN PREC IND WUHAN CO LTD

Assignee(s): HONGFUJIN PRECISION IND WUHAN CO ; HONG FU JIN PRECISION IND WUHAN CO LTD ; HON HAI PRECISION IND CO ; HON HAI PRECISION IND CO LTD ; HONG FU JIN PRECISION IND WUHAN CO

Inventor(s): (std): LI JIAN

Title: METHODS AND APPARATUSES FOR DRYING ELECTRONIC DEVICES

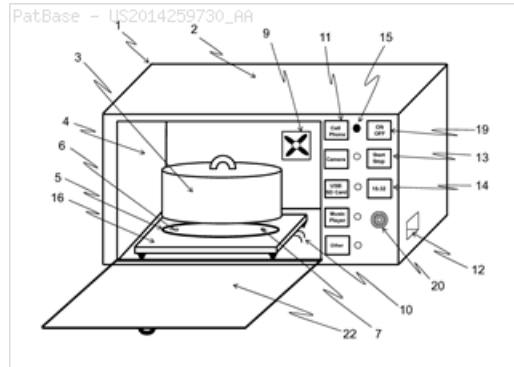
Abstract: Source: US2014259730A [EN] Methods and apparatuses for drying electronic devices are disclosed. Embodiments include methods and apparatuses that heat and decrease pressure within the electronic device. Some embodiments increase and decrease pressure while adding heat energy, such as by using 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.

Classifications:

International (IPC 8-9): B01D53/26 F26B11/00 F26B21/10 F26B23/00 F26B25/22 F26B3/02 F26B3/04 F26B5/04 F26B5/06 F26B5/14 F26B9/06 (Advanced/Invention)

CPC: F26B3/02 F26B9/06 F26B25/22 F26B5/04 F26B2200/00

US: 34/403 34/92

**Family:**

Publication number	Publication date	Application number	Application date
US2014259730 AA	20140918	US20140213142	20140314
US2017082360 AA	20170323	US20160369742	20161205
US2017205143 AA	20170720	US20170478992	20170404
US2018066890 AA	20180308	US20170811633	20171113
US9513053 BB	20161206	US20140213142	20140314
US9644891 BB	20170509	US20160369742	20161205
US9746241 BB	20170829	US20170478992	20170404
US9816757 BA	20171114	US20170688551	20170828
WO14153007 A1	20140925	WO2014US28634	20140314

Priority:

US20120593617P 20120201	US20120638599P 20120426	US20140213142 20140314
US20130782985P 20130314	US20150665008 20150323	US20130756879 20130201
US20160369742 20161205	US20170478992 20170404	US20170688551 20170828
US20170811633 20171113		

Probable Assignee: REVIVE ELECTRONICS LLC

Assignee(s): (std): REVIVE ELECTRONICS LLC

Assignee(s): US BANK NATIONAL ASSOCIATION

Inventor(s): (std): ARAIN IMRAN ; DOUBERTEEN DAVID ; EARLE MARK ; SHRAKE JAMES M ; TRUSTY JOEL ; TRUSTY MICAH ; ZIELINSKI REUBEN

Agent(s): BAKER AND MCKENZIE LLP; GALLAGHER DOUGLAS G

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD FOR DETERMINING FLOODED STATE AND ELECTRONIC DEVICE THEREOF

Abstract: Source: US2014307356A [EN] 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.

Classifications:

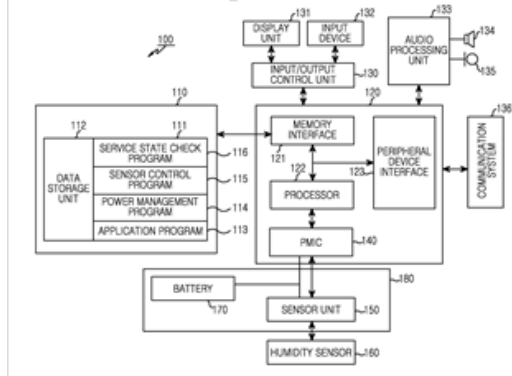
International (IPC 8-9): G05D22/02 H02H3/00

H02H5/08 (Advanced/Invention)

CPC: H02H5/083

US: 361/78

PatBase - US2014307356_RA



Family:

Publication number	Publication date	Application number	Application date
KR20140123802 A	20141023	KR20130041106	20130415
US2014307356 AA	20141016	US20140251986	20140414
US9484736 BB	20161101	US20140251986	20140414

Priority:

KR20130041106 20130415

Probable Assignee:

Assignee(s): (std): SAMSUNG ELECTRONICS CO LTD
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Inventor(s): (std): SAMSUNG ELECTRONICS CO
Inventor(s): (std): CHOI SEUNG KI ; HONG HYUN JU
Agent(s): CHA AND REITER LLC

Title: APPARATUSES AND METHODS FOR CONTROLLING POWER TO ELECTRONIC DEVICES

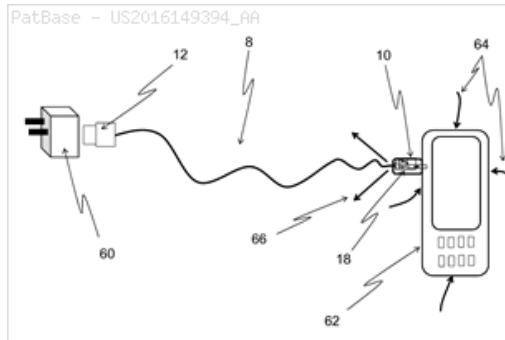
Abstract: Source: US2016149394A [EN] Methods and apparatuses for detecting when an electronic device has been exposed to **moisture** that could damage the electronic device, and inhibiting the flow of electrical power to the electronic device when the **moisture** level is too high are disclosed. Embodiments sample **air** within the electronic device, measure the **moisture** in the sampled **air**, inhibit the connection of electrical power to the electronic device if the **moisture** exceeds a threshold, and permit the connection of electrical power to the electronic device if the **moisture** level is below a threshold. Some embodiments measure the **moisture** in the ambient **air** to improve effectiveness. Other embodiments allow resetting of a tripped condition. Other embodiments include constant sampling of **air** from within the electronic device to assist drying, and inhibiting application of power to the electronic device until the electronic device is sufficiently dry. Still other embodiments interrupt power from the electronic device's battery.

Classifications:

International (IPC 8-9): G01N27/12 H02H11/00 H02H5/00 H02H5/08 H02H7/20 (Advanced/Invention)

CPC: H02H5/00 G01N27/121 H02H5/083

US: 361/59



Family:

Publication number	Publication date	Application number	Application date
BR112016000539 A2	20170725	BR20161100539	20140710
CA2918070 AA	20160111	CA20142918070	20140710
CN105637725 A	20160601	CN201480049547	20140710
CO16032720 A2	20160920	CO20160032720	20160210
EA201690200 A1	20170130	EA20160090200	20140710
EP3020108 A1	20160518	EP20140822876	20140710
EP3020108 A4	20170426	EP20140822876	20140710
ID201707247 A	20170714	ID2016P0000848	20140710
IN201617004673 A	20160805	IN201617004673	20160210
JP2016524455 T2	20160812	JP20160525482T	20140710
KR20160056873 A	20160520	KR20167003484	20140710
SG11201600186T A1	20160226	SG20161100186	20140710
US2016149394 AA	20160526	US20140903886	20140710
WO15006562 A1	20150115	WO2014US46151	20140710

Priority:

US20130844654P 20130710 US20140903886 20140710 WO2014US46151 20140710

Probable Assignee: REVIVE ELECTRONICS LLC

Assignee(s): (std): REVIVE ELECTRONICS LLC

Assignee(s): TRUSTY JOEL CHRISTOPHER ; TRUSTY MICAH NEIL ; US BANK NATIONAL ASSOCIATION ; ZIELINSKI REUBEN QUINCEY

Inventor(s): (std): GLOBERSON AMIR ; LEHAVI DAVID ; SCHEIN SAGI ; TRUSTY JOEL CHRISTOPHER ; TRUSTY MICAH NEIL ; ZIELINSKI REUBEN QUINCEY

Inventor(s): MICAH NEIL TRUSTY ; REUBEN QUINCEY ZIELINSKI ; JOEL CHRISTOPHER TRUSTY

Agent(s): MARKS AND CLERK; ALVARO CORREA ORDONEZ; DAUNCEY MARK PETER; DARU LUKIANTONO SH; MARUYAMA AND CO; GALLAGHER DOUGLAS G

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: APPARATUSES AND METHODS FOR CONTROLLING POWER TO ELECTRONIC DEVICES

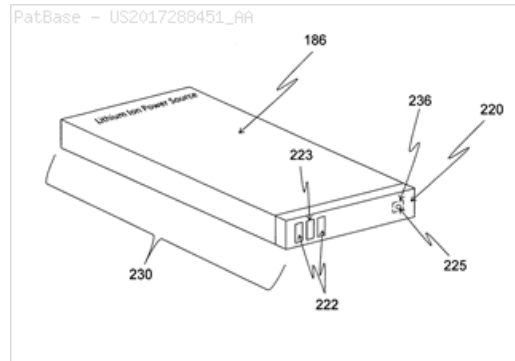
Abstract: Source: US2017288451A [EN] Methods and apparatuses for detecting when an electronic device, preferably a portable electronic device (PED) in some embodiments, has been exposed to **moisture**, and inhibiting the flow of electrical power to the electronic device when the **moisture** is too high or increasing too fast are disclosed. Embodiments sample **air** within the device, measure the **moisture** in the sampled **air**, inhibit the connection of electrical power to the device if the **moisture** exceeds a threshold, and permit the connection of electrical power to the device if the **moisture** is below a threshold. Some embodiments measure the **moisture** in the ambient **air** to improve effectiveness. Other embodiments allow resetting of a tripped condition. Other embodiments include constant sampling of **air** from within the device to assist drying, and inhibiting application of power to the device until the device is sufficiently dry. Still other embodiments interrupt power from the battery within the device.

Classifications:

International (IPC 8-9): G01N27/12 H02H5/08

H02J7/04 (Advanced/Invention)

CPC: G01N27/223 H02J07/04 H02H5/083 G06F1/3287 G08B21/20
G06F1/3206 H02H5/08



Family:

Publication number	Publication date	Application number	Application date
EP3238309 A1	20171101	EP20150873786	20151223
US2017288451 AA	20171005	US20170632218	20170623
WO16105505 A1	20160630	WO2015US00239	20151223

Priority:

US20140095997P 20141223 US20170632218 20170623 WO2015US00239 20151223

Probable Assignee: REVIVE ELECTRONICS LLC

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Inventor(s): (std): DOUBERTEEN DAVID ; EARLE MARK ; MOOREHEAD SCOTT ; TRUSTY JOEL ; TRUSTY JOEL C ; TRUSTY MICAH ; TRUSTY MICAH N ; ZIELINSKI REUBEN ; ZIELINSKI REUBEN Q

Agent(s): LAWRENCE JOHN; GALLAGHER DOUGLAS G

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW