

6 Documents

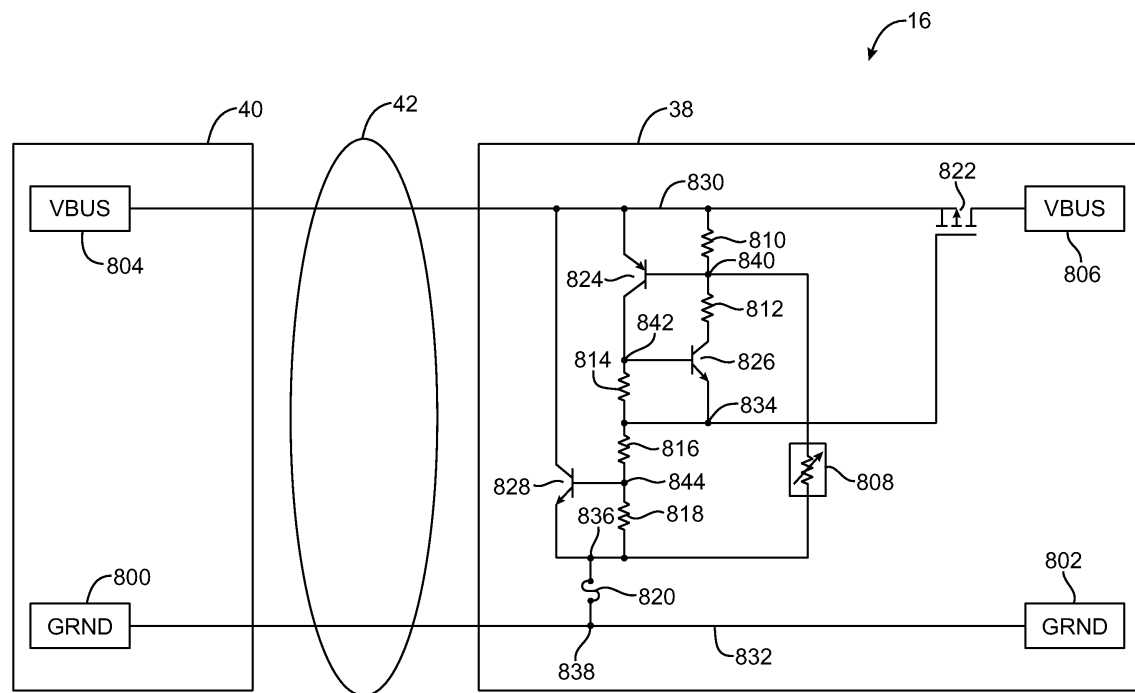
Publication numbers	Title	Current assignees
US20110104940 A1	Thermal protection circuits for electronic device cables	APPLE
CN101106264 A	Humidity detection and power cut-off device	HON HAI PRECISION INDUSTRY, ...
WO200365691 A2	Mobile telecommunications terminal	GIGASET COMMUNICATIONS
WO201061593 A1	Electronic device	KYOCERA
WO200073866 A1	An intelligent electronic device for monitoring non-electrical characteristics	GENERAL ELECTRIC
JP03124740U U		

Family 1/6 - FAMPAT - ©Questel

Title

(US8498087)

Thermal protection circuits for electronic device cables

Images**Publication data including kind & date**[US2011104940](#)

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

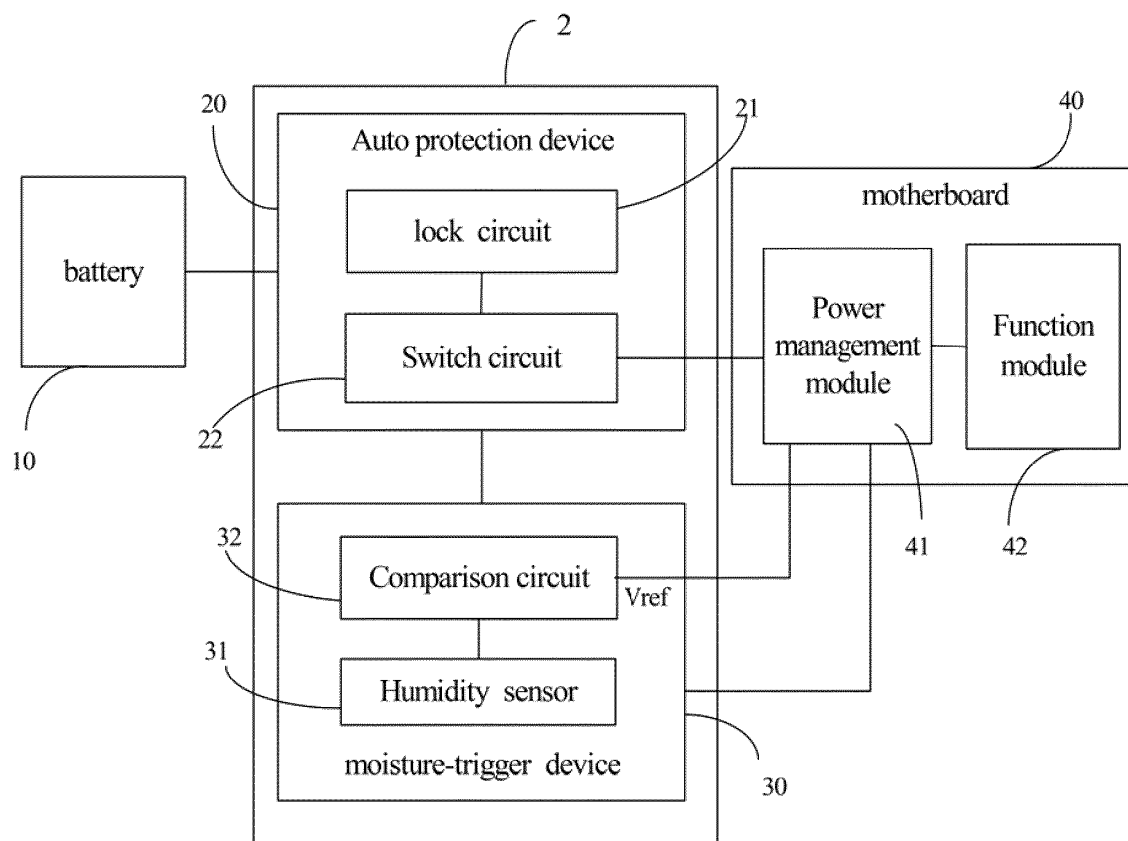
Family 2/6 - FAMPAT - ©Questel

Title

(US7557466)

Humidity detection and power cut-off device

Images



Publication data including kind & date

CN101106264	A	2008-01-16	CN101106264
US2008013241	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

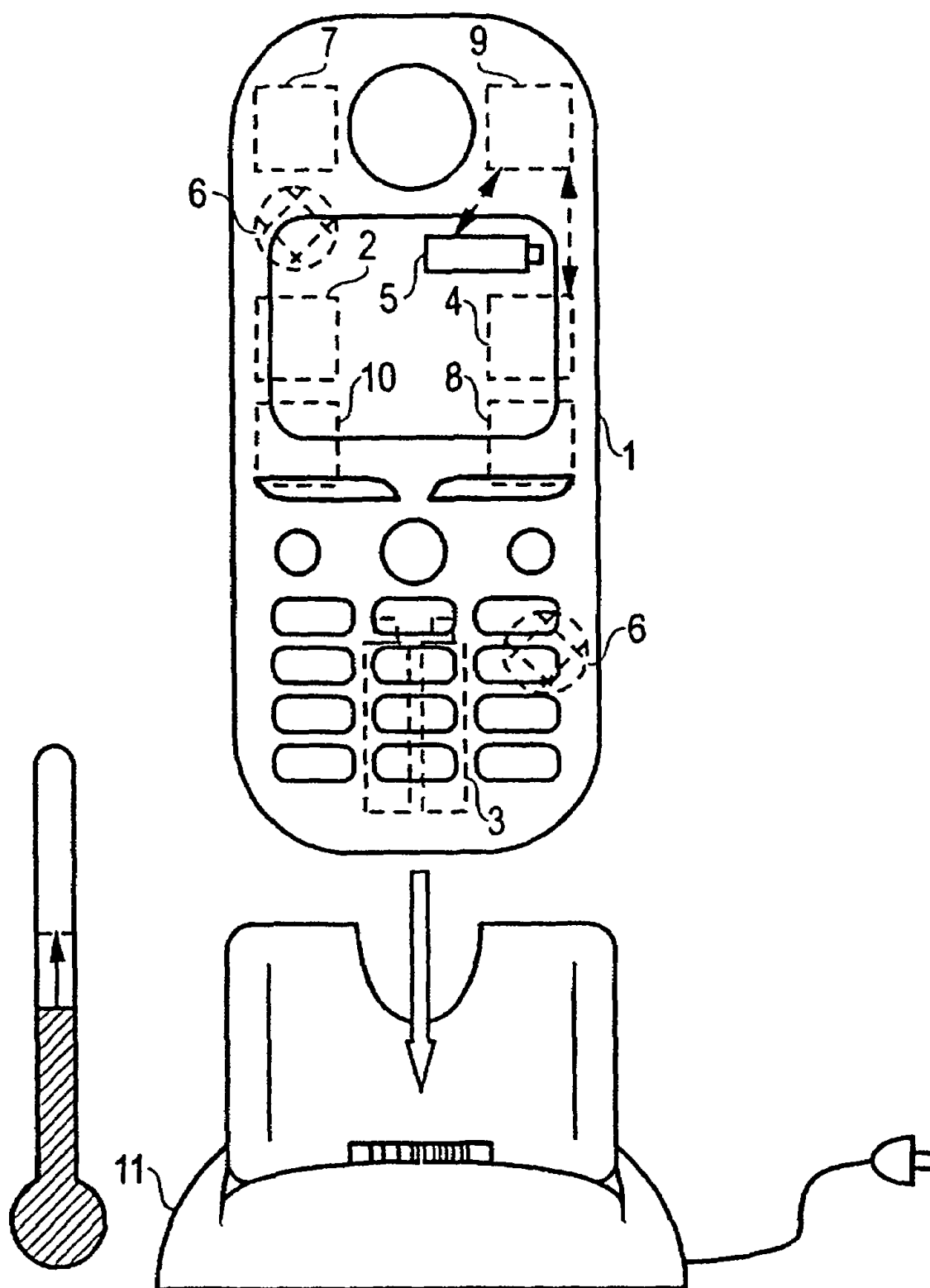
HON HAI PRECISION INDUSTRY
HONGFUJIN PRECISION INDUSTRY SHENZHEN

Title

(EP1470693)

Mobile telecommunications terminal

Images



Publication data including kind & date

WO03065691

A2 2003-08-07 WO200365691

DE10203814

A1 2003-08-14 DE10203814

DE10203814

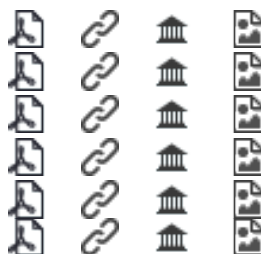
C2 2003-11-27 DE10203814

WO03065691

A3 2003-12-04 WO200365691

EP1470693

A2 2004-10-27 EP1470693



[US2005079888](#)

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

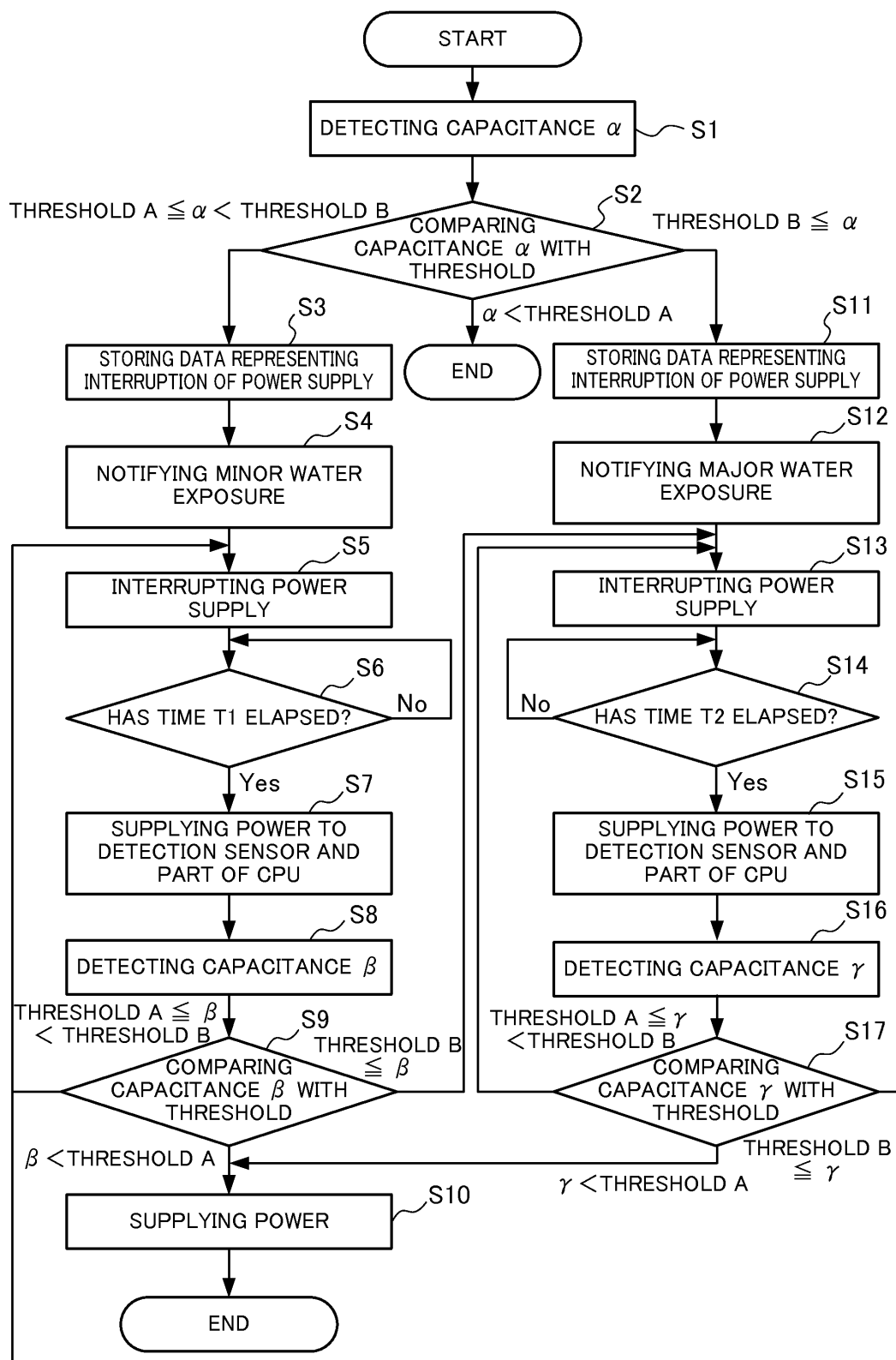
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Title

(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
US2011279931	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 5/6 - FAMPAT - ©Questel

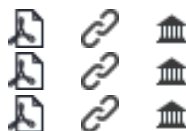
Title

(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 6/6 - FAMPAT - ©Questel

Publication data including kind & date

JPH03124740	U	1991-12-17	JP03124740U
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