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7
8 UNITED STATES DISTRICT COURT
9 NORTHERN DISTRICT OF CALIFORNIA

NC

CV 13 5110

10 EJT TECHNOLOGIES INC.,

Case No.

11 Plaintiff,

**COMPLAINT FOR PATENT
INFRINGEMENT**

12 v.

13 ZTE CORPORATION; ZTE (USA) INC.

DEMAND FOR JURY TRIAL

14 Defendants.
15

16 Plaintiff EJT Technologies Inc. ("EJT") hereby brings this action against ZTE
17 Corporation ("ZTE"); and ZTE (USA) Inc. ("ZTE USA") (collectively, "Defendants") for
18 infringement of United States Patent No. 6,223,295 (the "'295 patent"), and alleges as follows:

19 **NATURE OF THE ACTION AND PARTIES**

20 1. This is an action for patent infringement arising under the patent laws of the
21 United States, 35 U.S.C. § 1 *et seq.*

22 2. EJT Technologies Inc. is a corporation organized and existing under the laws of
23 the State of Delaware with its principal place of business in Newark, Delaware.

24 3. On information and belief, ZTE is a corporation organized and existing under the
25 laws of the People's Republic of China with its principal place of business at No. 55, Hi-tech
26 Road South, ShenZhen, P.R. China 518057.

27 FILE VIA FAX
28

1 4. On information and belief, ZTE USA a is a corporation organized and existing
2 under the laws of the State of New Jersey with its principal place of business at 2425 N. Central
3 Expy #323, Richardson, TX 75080. On information and belief, ZTE USA is an affiliate of ZTE.

4 **NATURE OF THE ACTION AND PARTIES**

5 5. The '295 patent is entitled "MEANS FOR SAVING ELECTRICAL POWER."
6 The application that resulted in the '295 patent was filed on July 16, 1998, and the United States
7 Patent and Trademark Office duly and legally issued the '295 patent on April 24, 2001. A true
8 and correct copy of the '295 patent is attached hereto as Exhibit A.

9 6. EJT owns all right, title and interest in the '295 patent.

10 **JURISDICTION**

11 7. This Court has subject matter jurisdiction over this action pursuant to 28 U.S.C.
12 §§ 1331 and 1338(a), as this is an action arising under the Patent Act, 35 U.S.C. § 1 et seq.

13 8. This Court has personal jurisdiction over ZTE. Upon information and belief, ZTE
14 conducts business in this State and is selling and offering to sell, and has within a reasonable
15 period prior to the filing of this action, sold and offered to sell portable devices, such as the Warp
16 Sequent smartphone, to customers in this State and in this District, either directly or indirectly.
17 Upon information and belief, ZTE has placed portable devices, including the infringing portable
18 devices, such as the Warp Sequent smartphone, into the stream of commerce, knowing or
19 reasonably expecting that such portable devices will be used, sold, or offered to be sold in this
20 State and in this District. Upon information and belief, ZTE has intentionally established
21 distribution channels to offer portable devices for sale and to sell portable devices, including the
22 infringing portable devices, in this State and in this District.

23 9. This Court has personal jurisdiction over ZTE USA. Upon information and belief,
24 ZTE USA conducts business in this State and is selling and offering to sell, and has within a
25 reasonable period prior to the filing of this action, sold and offered to sell portable devices, such
26 as the Warp Sequent smartphone, to customers in this State and in this District, either directly or
27 indirectly. Upon information and belief, ZTE USA has placed portable devices, including the
28 infringing portable devices, such as the Warp Sequent smartphone, into the stream of commerce,

1 knowing or reasonably expecting that such portable devices will be used, sold, or offered to be
2 sold in this State and in this District. Upon information and belief, ZTE USA has intentionally
3 established distribution channels to offer portable devices for sale and to sell portable devices,
4 including the infringing portable devices, in this State and in this District.

5 **VENUE**

6 10. Venue is proper in this District pursuant to 28 U.S.C. §§ 1391(b), 1391(c), 1391
7 (d), and 1400(b) because each Defendant has committed acts of infringement in this District and
8 is deemed to reside in this District for purposes of this action.

9 **INTRADISTRICT ASSIGNMENT**

10 11. Pursuant to Local Rule 3-2(c), Intellectual Property Actions are assigned on a
11 district-wide basis.

12 **COUNT I**

13 **DIRECT INFRINGEMENT OF U.S. PATENT NO. 6,223,295**

14 12. EJT re-alleges and incorporates by reference the allegations of Paragraphs 1-11
15 above as if fully stated herein.

16 13. ZTE has directly infringed, and continues to directly infringe, at least claims 1 and
17 2 of the '295 patent under 35 U.S.C. § 271(a), either literally and/or under the doctrine of
18 equivalents, by making, using, selling, or offering for sale in the United States, and/or importing
19 into the United States, portable devices, including but not limited to the Warp Sequent
20 smartphone, encompassed by at least claims 1 and 2 of the '295 patent.

21 14. ZTE USA has directly infringed, and continues to directly infringe, at least claims
22 1 and 2 of the '295 patent under 35 U.S.C. § 271(a), either literally and/or under the doctrine of
23 equivalents, by making, using, selling, or offering for sale in the United States, and/or importing
24 into the United States, portable devices, including but not limited to the Warp Sequent
25 smartphone, encompassed by at least claims 1 and 2 of the '295 patent.

26 15. Defendants had notice of the '295 patent at least as early as October 24, 2013,
27 when EJT sent each Defendant written notice of infringement, and by the filing and serving of the
28 present Complaint.

1 under 35 U.S.C. § 284, entitling EJT to treble damages.

2 **PRAYER FOR RELIEF**

3 EJT respectfully prays for relief as follows:

4 A. that each Defendant be adjudged to have infringed the '295 patent;

5 B. that the Court order an accounting for damages by virtue of each Defendant's
6 infringement of the '295 patent;

7 C. that the Court award damages to EJT against each Defendant, in an amount no less
8 than a reasonable royalty, pursuant to 35 U.S.C. § 284;

9 D. that the Court award EJT pre-judgment and post-judgment interest and its costs;

10 E. that the Court award EJT increased damages in an amount three times the damages
11 found by the jury or assessed by the Court for the willful infringement of the patents-in-suit
12 pursuant;

13 F. that this case be declared an exceptional case within the meaning of 35 U.S.C. §
14 285 and that EJT be awarded the attorneys' fees, costs, and expenses that it incurs prosecuting
15 this action; and

16 G. that EJT be awarded such other and further relief as this Court deems just and
17 proper.

18 **DEMAND FOR JURY TRIAL**

19 Pursuant to Rule 38(b) of the Federal Rules of Civil Procedure, EJT Technologies Inc.
20 demands a jury trial for all issues so triable.

21 Dated: November 1, 2013

Respectfully submitted,

22 /s/ Michael C. Ting

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Exhibit A



US006223295B1

(12) **United States Patent**
Wang et al.

(10) **Patent No.:** **US 6,223,295 B1**
(45) **Date of Patent:** **Apr. 24, 2001**

(54) **MEANS FOR SAVING ELECTRICAL POWER**

(75) Inventors: **Gary Wang; Chieh Feng Wu**, both of Taipei (TW)

(73) Assignee: **Silitek Corporation**, Taipei (TW)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/116,581**

(22) Filed: **Jul. 16, 1998**

(51) **Int. Cl.**⁷ **G06F 1/26**

(52) **U.S. Cl.** **713/320**

(58) **Field of Search** 713/320, 321, 713/323, 324, 330, 340; 340/545.5

(56) **References Cited**

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Primary Examiner—Robert Beausoleil

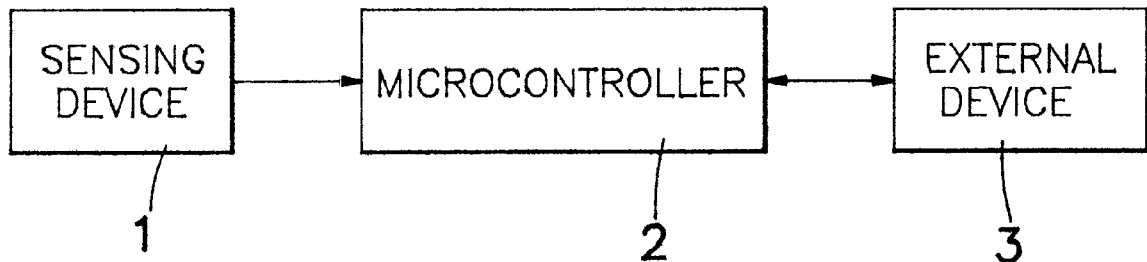
Assistant Examiner—Xuong Chung-Trans

(74) *Attorney, Agent, or Firm*—Rosenberg, Klein & Lee

(57) **ABSTRACT**

Disclosed is a system for saving electrical power (II) comprising an external device, a control unit and a sensing device which is a directive switch and can sense the variation of angle. One end of the sensing device is connected to ground, another end of the sensing device is connected to the input of the control unit. The microcontroller will be switched to a power down mode from normal operation if the external device is not being accessed for a specific duration. Therefore, the PSEN pin of the microcontroller will be switched from a logical high state to a logical low state. At this time, the microcontroller will be triggered to recover the normal operation of external device if the sensing device senses angle change, thus reducing electrical power and prolonging the battery life.

8 Claims, 5 Drawing Sheets



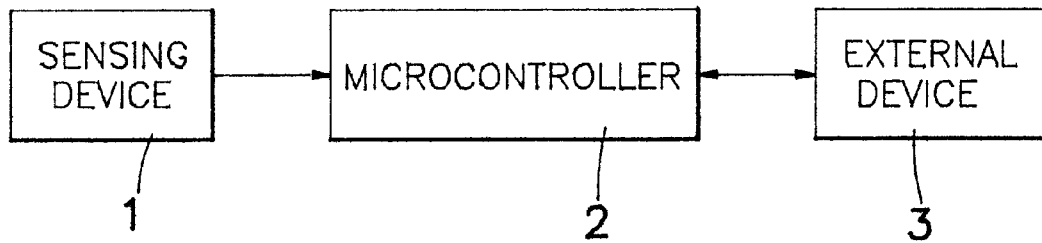
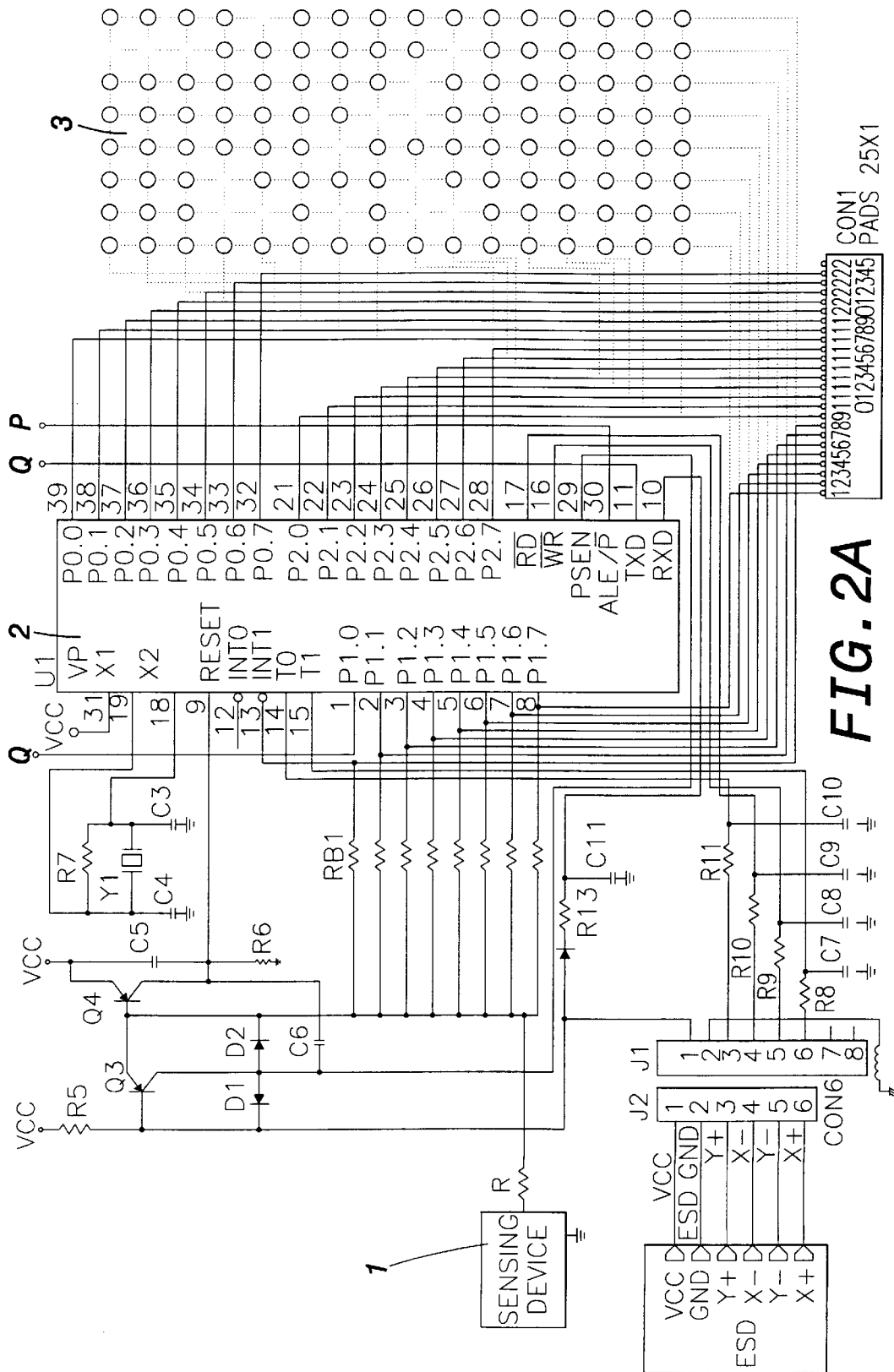


FIG. 1



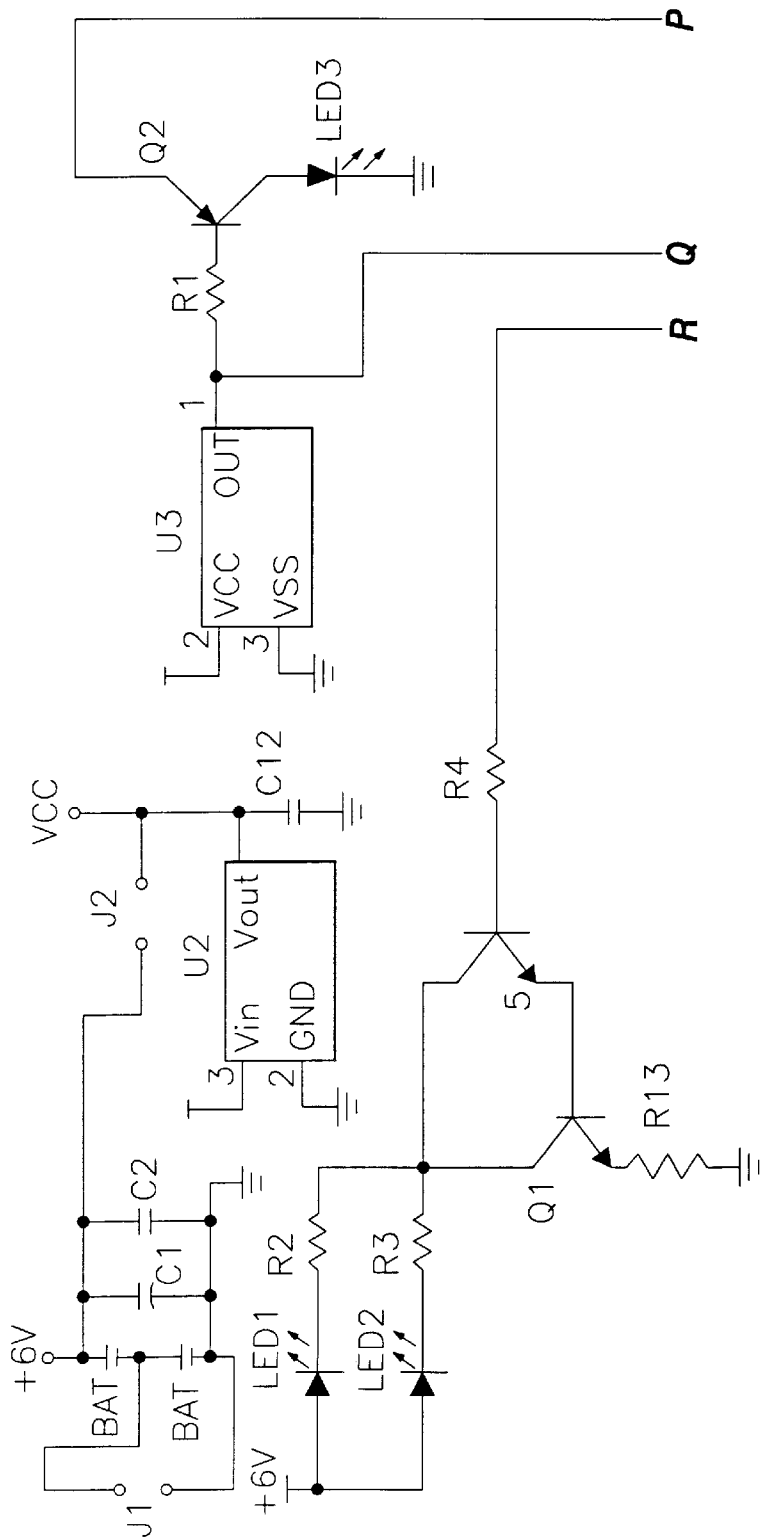


FIG. 2B

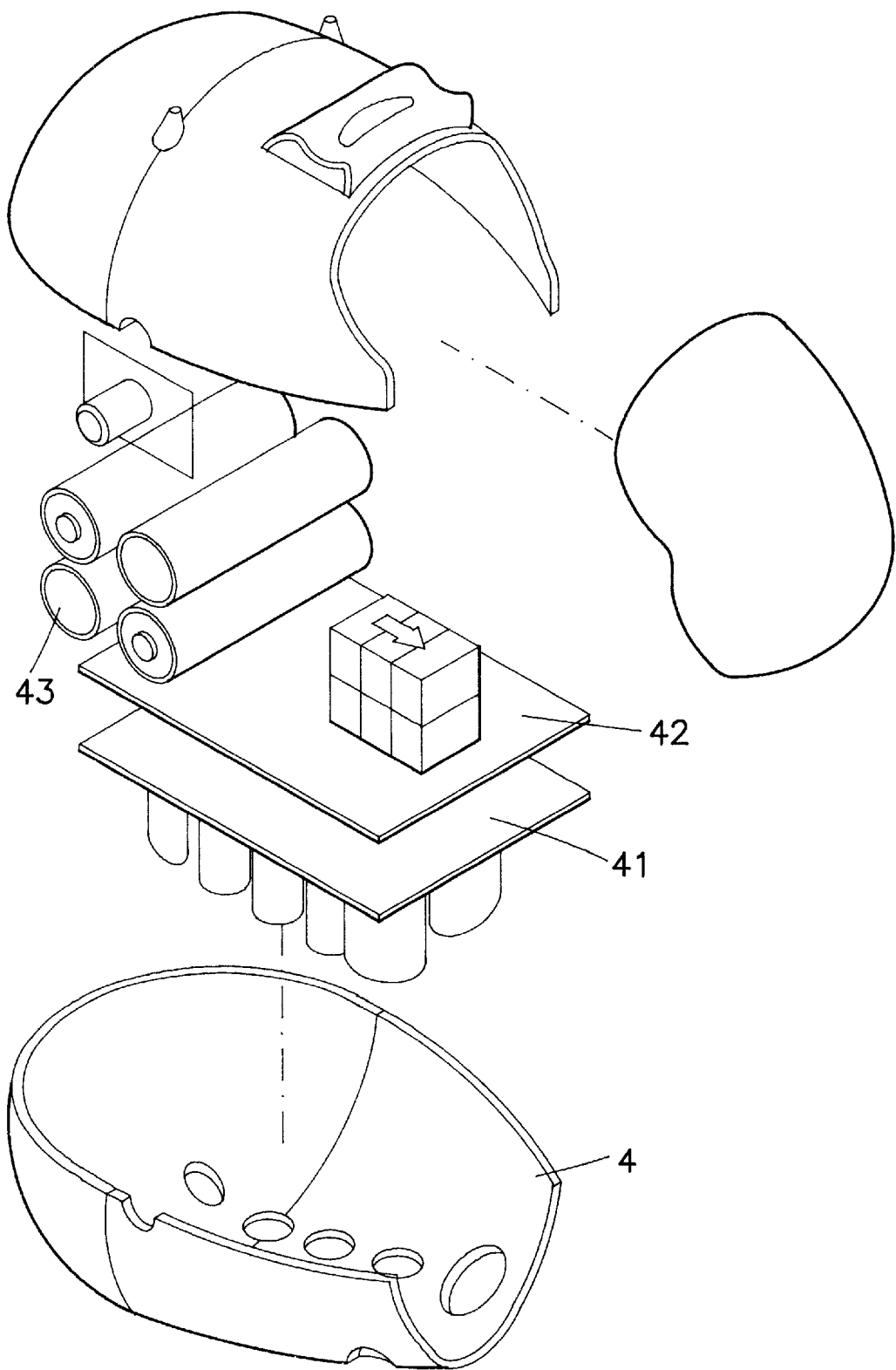


FIG.3

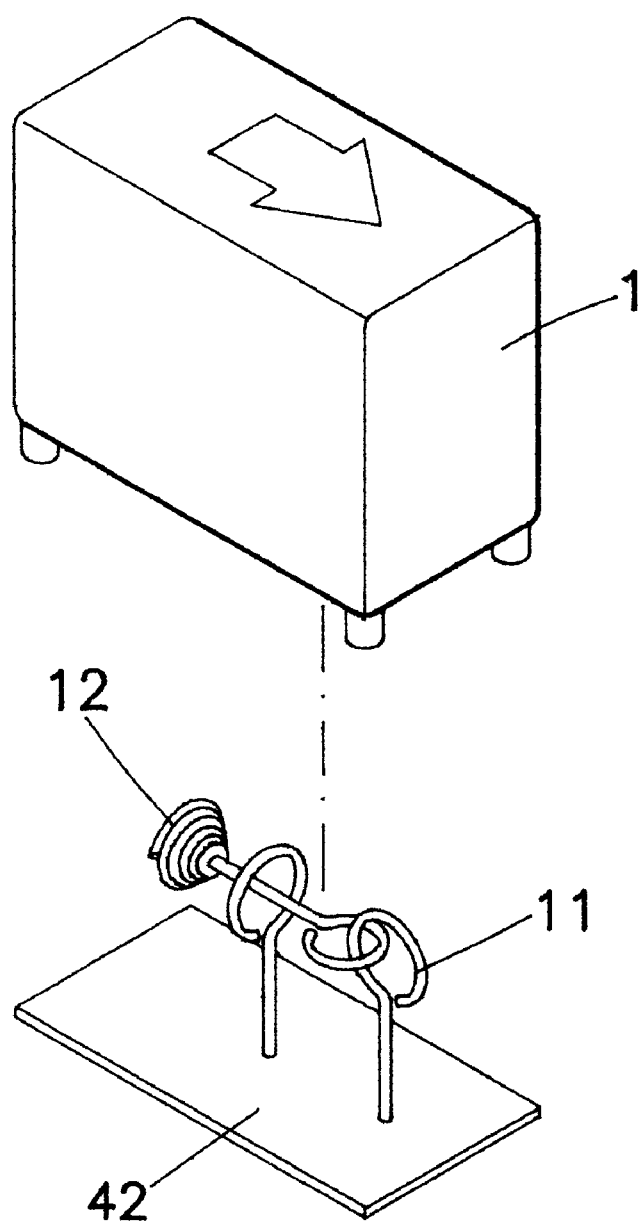


FIG. 4

MEANS FOR SAVING ELECTRICAL POWER

FIELD OF THE INVENTION

The present invention relates to a means for saving electrical power(II), more particularly, to a means with a directive device to control the microcontroller in a power down mode, thus reducing electrical power and prolonging the battery life.

BACKGROUND OF THE INVENTION

The electrical-power saving functions by microcontroller can be realized by following two ways. The first way is an idle mode, wherein the microcontroller is in an idle (without working) state while the devices connecting with the microcontroller (such as oscillators, counters, or serial interrupt unit) remain functioning. In this idle mode operation, the operating current for microcontroller is about 1 mA.

Another way for saving electrical-power is power down mode, wherein the oscillator and the microcontroller are both in off state. In this power-down mode, the operating current for microcontroller is below 10 uA.

The microcontroller is generally designed to switch from normal state to a power-saving state when the external devices connected to the microcontroller are idle for a specific period. At the power-saving state, the microcontroller is in an off state and can not function. The conventional device is designed to trigger the microcontroller to a workable state by a power switch. However, the operating current for the microcontroller triggered by the power switch is about 200~400 uA. The current consumption is excessively large.

SUMMARY OF THE INVENTION

The object of the present invention is to provide a means with a directive device to control the microcontroller in a power down mode, thus reducing electrical power and prolonging the battery life.

To achieve above function, the present invention provides a means for saving electrical power (II) comprising a directive switch arranged within a wireless remote controller of tumbler configuration (with rounded bottom), by which the direction switch is kept upright or inclined with a specific angle when the remote controller not being used and the direction switch is swung to send a triggering signal to the micro-controller if the remote controller being used.

The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawing, in which:

BRIEF DESCRIPTION OF DRAWING

FIG. 1 shows the block diagram of the means according to a preferred embodiment of the present invention;

FIGS. 2A and 2B shows a circuit diagram for implementing the block diagram in FIG. 1;

FIG. 3 shows the perspective view of sensing means according a preferred embodiment of the present invention;

FIG. 4 is a schematic diagram of the sensing means in FIG. 3.

NUMERAL

- 1. sensing device
- 11 metal ring
- 12 pendulum

- 2. microcontroller
- 3. external device
- 4. main body of remote controller
- 41 circuit board
- 42 base
- 43 battery set

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

FIG. 1 shows the block diagram of the means according to a preferred embodiment of the present invention, and FIG. 2A and 2B shows a circuit diagram for implementing the block diagram in FIG. 1. As shown in FIG. 1, the means for saving electrical power (II) comprising a sensing device 1, a microcontroller 2 and an external device 3. The microcontroller 2 comprises an 8051 microprocessor U1, an oscillator Y1, resistors R5~R7, RB1, transistors Q3 and Q4, diodes D1 and D2, and capacitors C6, C7. The pins of PSEN (program-stored enable) and RESET of the microprocessor U1 are connected to the collector of transistor Q3 and Q4 respectively. The pins in output port of the microprocessor U1 (P0.0~P0.7, P1.0~P1.7, P2.0~P2.7) are connected to the external device 3. In the preferred embodiment, the external device 3 is a keyboard scanning matrix means. The pins P1.1~P1.7 are connected to the base of the transistor Q4 through resistor RB1. The emitter of transistor Q3 is connected to one end of the sensing device 1. The another end of the sensing device 1 is grounded. The sensing device 1 is a directive switch which can sense the variation of angle (about 25 degree).

The microcontroller 2 is designed to sense whether the external device 3 has been subjected to external force for every specific time (about 2 sec). The microcontroller 2 will be in a power down mode if the external device 3 is sensed to have no external force. At this time, the PSEN pin of the microprocessor U1 will be switched from a logical high state to a logical low state. The RESET pin is in a logical high state.

The microcontroller 2 will be switched from normal operation to a power down mode when the external device 3 is sensed to have no external force. The PSEN pin of the microcontroller 2 will be switched from a logical high state to a logical low state. At this time, the transistor Q4 is turned on if the angle of the sensing device 1 changes. The microcontroller 2 is triggered such that the RESET pin thereof is in a logical low state, and the external device 3 is recovered to normal state.

FIGS. 3 and 4 show the perspective view of sensing means according the preferred embodiment of the present invention. The main body of the remote controller 4 is of a tumbler shape and houses a circuit board 41, a base 42 upon the circuit board 41, a sensing device 1 on the base 42. Both leads of the sensing device 1 are connected to the circuit on circuit board 41.

In this embodiment, the sensing device 1 is a gravity-type directive switch comprising a metal ring 11 and a pendulum 12. Moreover, a battery set 43 is arranged on one side of the base 42 to provide electric power and necessary weight for providing gravity force.

In other words, the battery set 43 is also functioned as center of gravity of the main body 4 to keep the main body upright or inclined with a specific angle. Moreover, if an external force is applied to the main body 4 (the remote controller is being used), the angle of the sensing device 1 changes (about 25 degree). At this time, the RESET pin of the microcontroller is triggered to recover the normal function of the external device 3.

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Although the present invention has been described with reference to the preferred embodiment thereof, it will be understood that the invention is not limited to the details thereof. Various substitutions and modifications have suggested in the foregoing description, and other will occur to those of ordinary skill in the art. For examples, the sensing device can be a mercury switch. Therefore, all such substitutions and modifications are intended to be embraced within the scope of the invention as defined in the appended claims.

What is claimed is:

1. A remote control with a system for saving electrical power, comprising:

- (a) a housing capable of maintaining a predetermined spatial orientation;
- (b) a keyboard mounted in said housing to be subject to an application of external forces;
- (c) a control unit disposed within said housing and operatively coupled to said keyboard, said control unit being switched to a power-down mode of operation responsive to said keyboard being devoid of said application of external forces for a predetermined time duration, said power-down mode of operation operatively disabling said keyboard;
- (d) a sensing unit mounted within said housing and operatively coupled to said control unit, said sensing

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unit being adapted to sense a change of said predetermined spatial orientation of said housing, whereby said control unit is returned to an operative mode responsive to said sensing unit sensing a deviation from said predetermined spatial orientation of said housing.

2. The remote control as in claim 1, wherein said control unit includes a micro-controller.

3. The remote control as in claim 1, wherein said sensing device includes a gravity-type switch.

4. The remote control as in claim 1, wherein said sensing device includes a mercury switch.

5. The remote control as in claim 1, wherein said sensing device comprises a metal ring and a pendulum.

6. The remote control as in claim 1, further comprising a battery power source disposed within said housing, said battery power source establishing a center of gravity of said remote control for maintaining said housing in said predetermined spatial orientation until displaced by a user.

7. The remote control as in claim 1, wherein said housing has a tumbler-shaped configuration.

8. The remote control as in claim 1, wherein said predetermined time duration approximates two seconds.

* * * * *