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(54) **TV MUTE FINGER RING**
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(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**

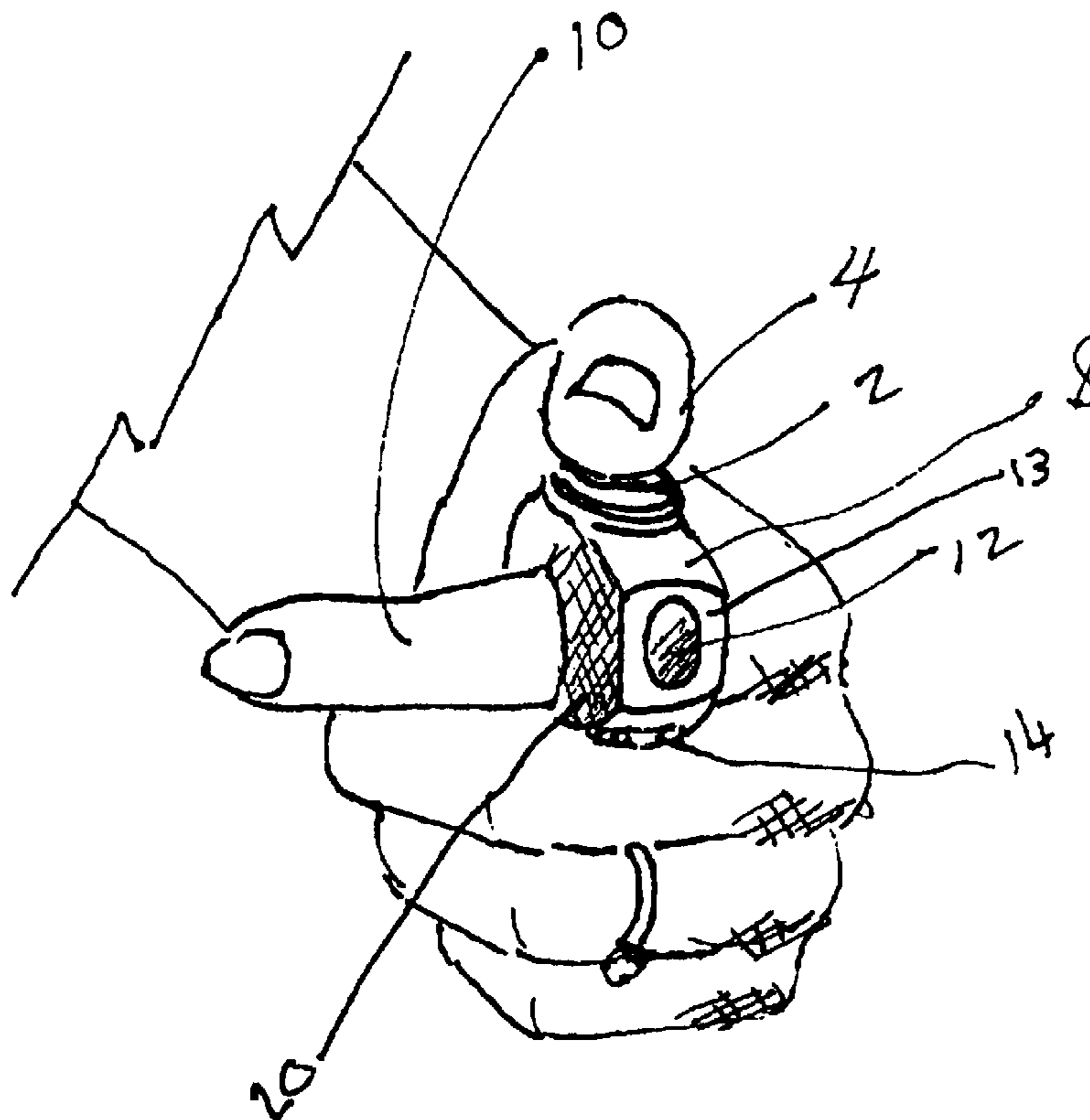
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(57) **ABSTRACT**

TV Mute Finger Ring with a hollow C shaped finger ring housing. The housing contains the standard electronics and IR transmitting LED associated with activating the mute function of a standard TV. The housing also contains a battery type electrical power source. The C shaped ring housing has a loop type fastener strip attached to one end of the C shape and a hook type fastening panel affixed to the opposite end of the C shape so that said loop type fastener can removably attach to said hook fastener thereby forming a full ring that can be worn on the user's forefinger. The C shaped housing contains a momentary on-off switch and attached outwardly accessible switch cover located in a position where the user's thumb can easily reach said switch cover. The IR transmitter is covered by a transparent plastic lens that is flush with the outer surface of said C shaped housing. The plastic lens is positioned so that said lens and said IR transmitting LED are pointed outwardly in the general direction of said TV.

6 Claims, 3 Drawing Sheets



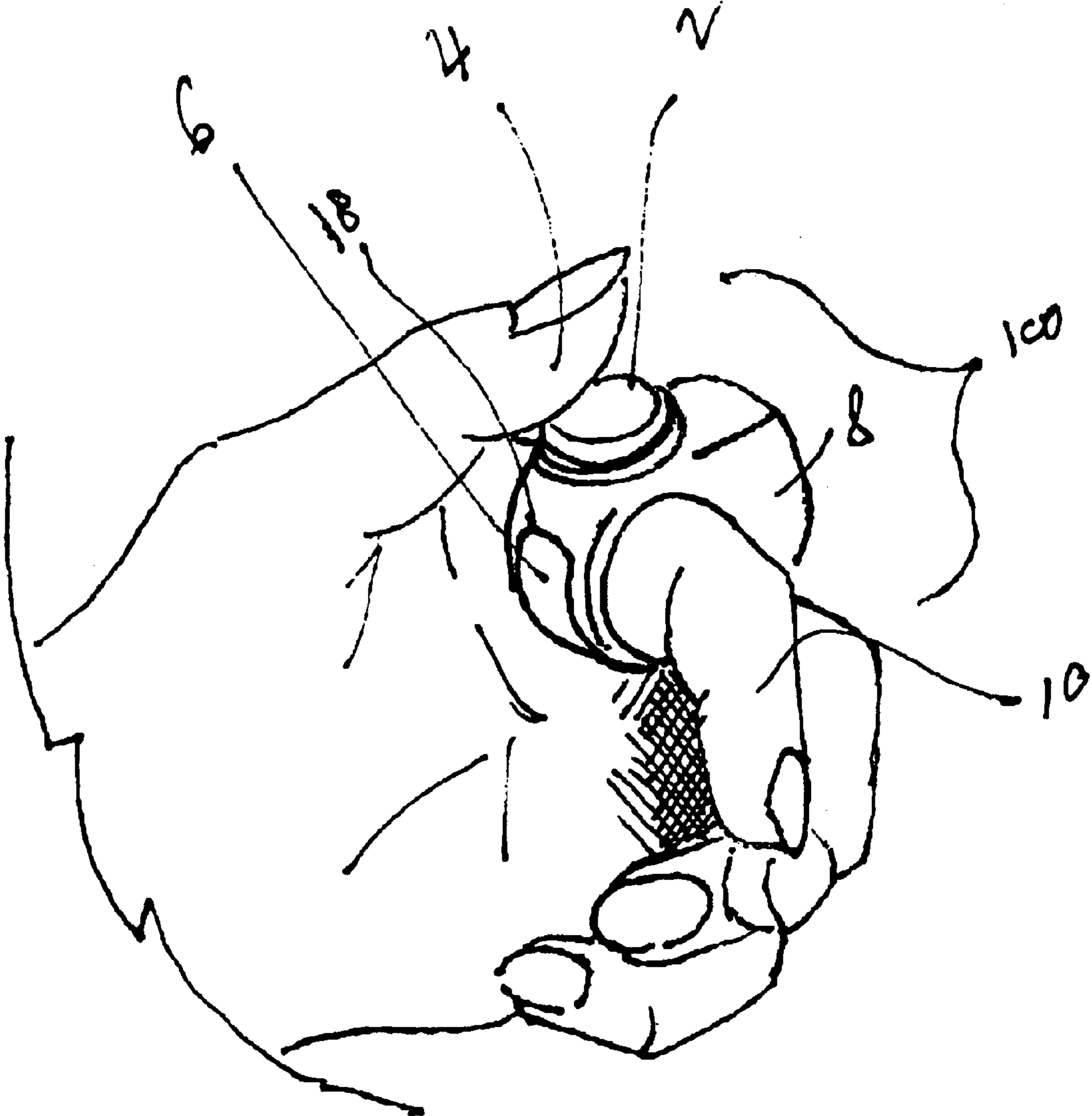


FIG. 1

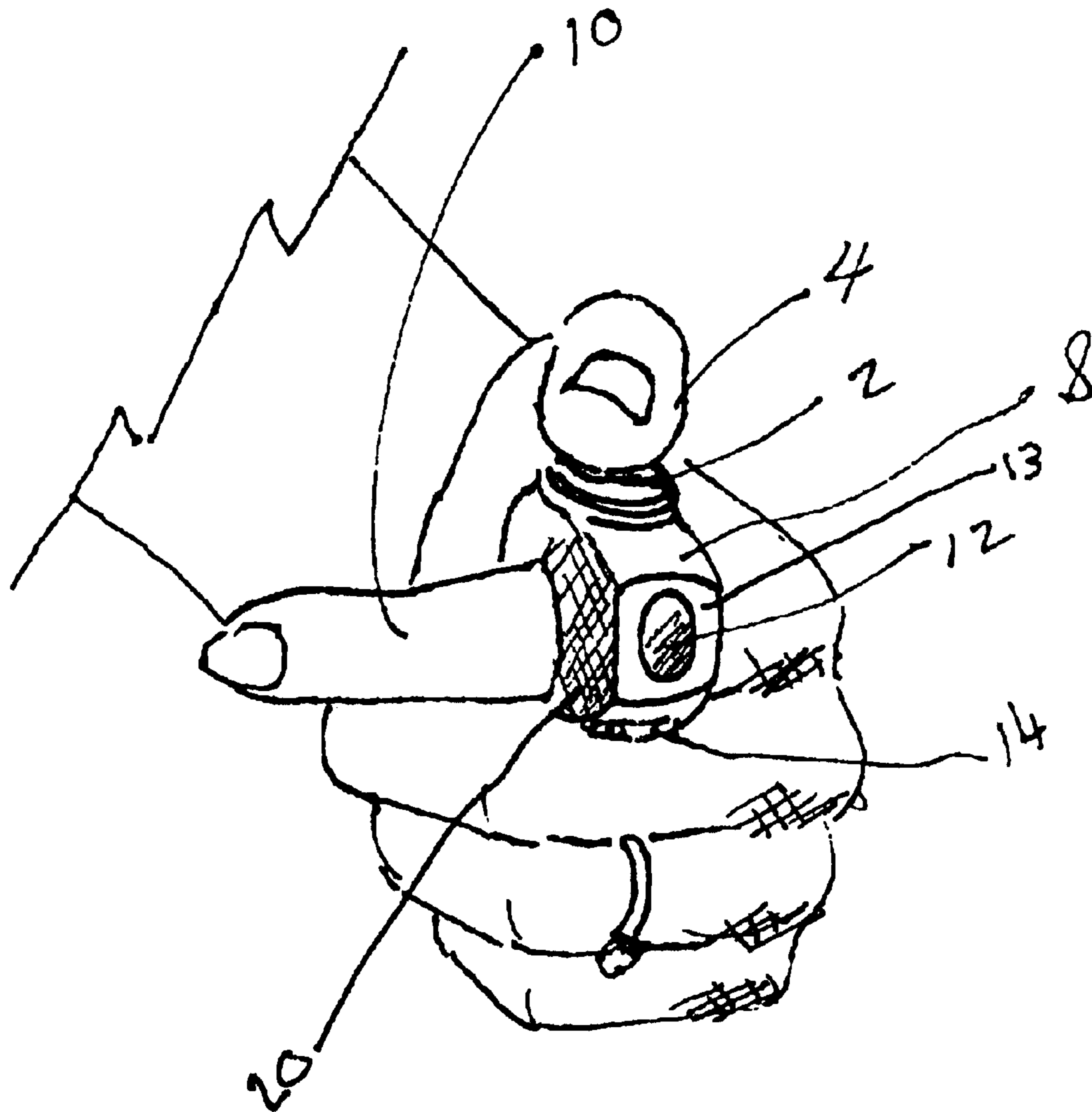


FIG. 2

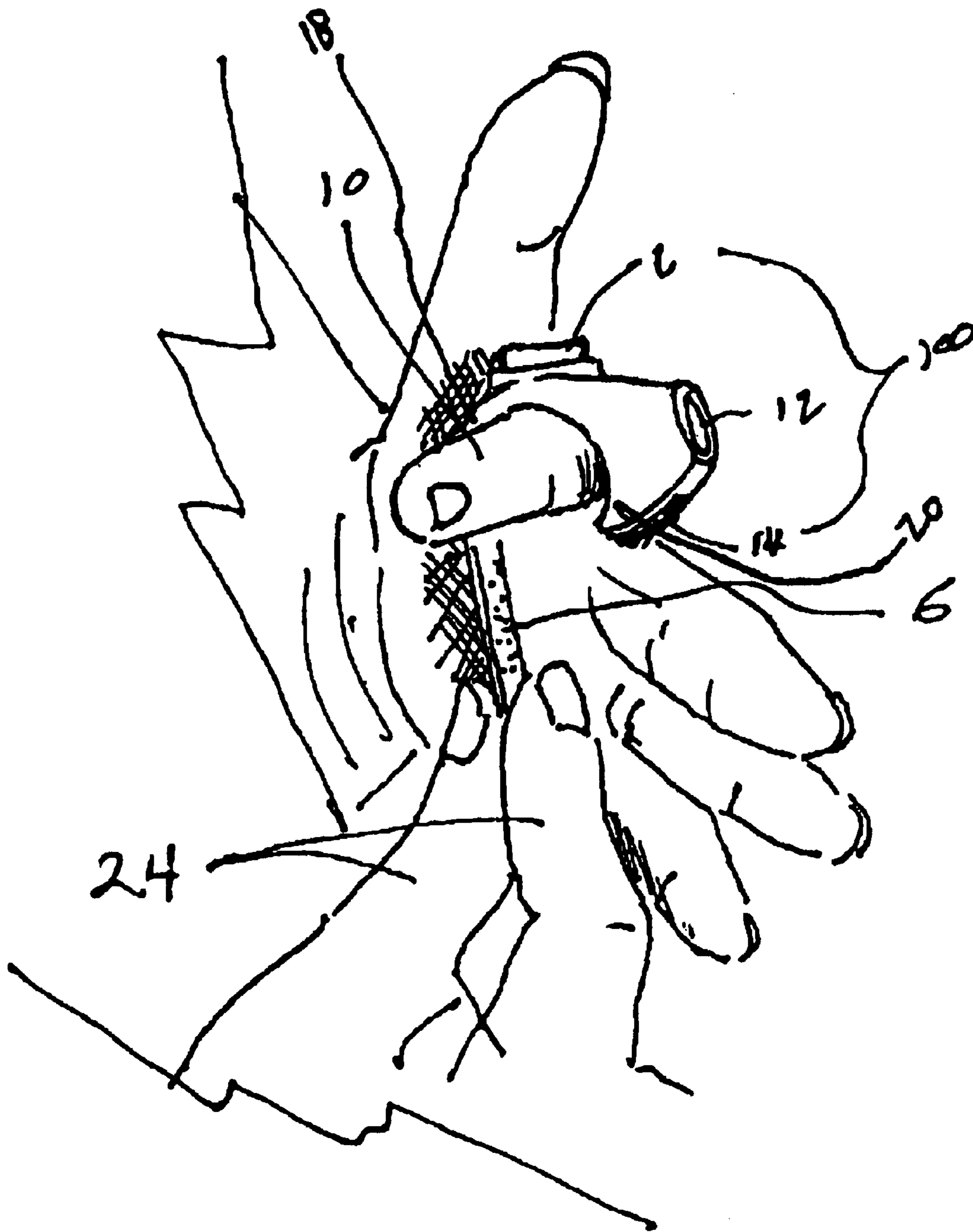


FIG. 3

TV MUTE FINGER RING

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

BACKGROUND OF THE INVENTION

This invention relates generally to the field of TV accessories, and more particularly to a TV Mute Finger Ring.

Remote control devices for activating and controlling a standard TV are well known. Such devices tend to use IR type LED emitters that send a signal to an IR receiver located on the front panel of a standard TV. Standard commands include On-off, volume, channel selection and Mute. The Mute switch turns off all sound from the TV. Many TV user's tend to turn off the sound coming from the TV when an advertising commercial appears. They do this because many times the sound emitted during a commercial is louder than the normal TV program sound. User's may also want to turn off the sound temporarily to communicate with a nearby person, or to answer a telephone or any other instance when the TV sound may be temporarily undesirable. In this case, the user must find the remote device locate the mute button and then press the button. This operation must be repeated when turning the sound back on. Unfortunately, the process of finding the remote device, turning on an available light source to locate the rather small mute button and finally pressing the mute button can take almost as long as the time of a standard TV commercial thereby making the process irrelevant. TV remote devices that are built into wrist watches have been developed in the recent past. Although these devices do help a user have convenient use of a mute feature, they tend to be rather costly and the mute button is very small, making it almost impossible to use the device without looking carefully at it. Additionally, the user must turn and lift his or her arm and wrist in the direction of the TV set for the wrist mounted device to work. In general, the wrist mounted TV remote devices available today are rather awkward and difficult to use.

SUMMARY OF THE INVENTION

The primary object of the invention is to provide a mute switch for a TV that is quick and easy to access.

Another object of the invention is to provide a mute switch for a TV that can be operated by one hand.

Another object of the invention is to provide a mute switch for a TV where the user does not have to visually see the mute switch in order to operate it.

Another object of the invention is to provide a mute switch for a TV that is economical to manufacture.

Other objects and advantages of the present invention will become apparent from the following descriptions, taken in connection with the accompanying drawings, wherein, by way of illustration and example, an embodiment of the present invention is disclosed.

TV Mute Finger Ring comprising: a hollow C shaped finger ring housing, said housing containing the standard electronics and IR transmitting LED associated with activating the mute function of a standard TV, said housing also containing a battery type electrical power source, said C shaped ring housing having a loop type fastener strip attached to one end of said C shape and a hook type fastening panel affixed to the opposite end of said C shape so that

said loop type fastener can removably attach to said hook fastener thereby forming a full ring that can be worn on the user's forefinger, said C shaped housing containing a momentary on-off switch and attached outwardly accessible switch cover located in a position where the user's thumb can easily reach said switch cover, said IR transmitter being covered by a transparent plastic lens that is flush with the outer surface of said C shaped housing, and said plastic lens positioned so that said lens and said IR transmitting LED are pointed outwardly in the general direction of said TV.

The drawings constitute a part of this specification and include exemplary embodiments to the invention, which may be embodied in various forms. It is to be understood that in some instances various aspects of the invention may be shown exaggerated or enlarged to facilitate an understanding of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Detailed descriptions of the preferred embodiment are provided herein. It is to be understood, however, that the present invention may be embodied in various forms. Therefore, specific details disclosed herein are not to be interpreted as limiting, but rather as a basis for the claims and as a representative basis for teaching one skilled in the art to employ the present invention in virtually any appropriately detailed system, structure or manner.

Referring now to FIG. 1 we see a perspective view of The TV mute ring of the present invention **100**. The ring housing **8** fits comfortably on the user's forefinger **10**. The ring assembly is positioned so that a push button switch cover **2** of an internal momentary on-off switch is easily accessible by the user's thumb **4**. The ring housing **8** is hollow and is preferably made of rigid, injection molded plastic such as ABS or the like. FIG. 2 shows a front perspective view of the present invention **100**. In this view an IR lens **12** can be clearly seen. Within housing **8** is contained a standard circuit for transmitting an IR signal to a standard IR receiver located within a standard TV set. The IR signal exits through said lens **12**, which is flush with the front surface **13** of ring housing **8**. Also included in housing **8** is a power source such as a button type DC battery. With the present invention **100**, the user can easily and quickly create a muted condition with respect to a standard TV set. The operation can be done by one hand and without physically looking at the mute ring to perform the action. Since the ring is removably attached to the user's finger, it can not be easily lost or otherwise misplaced. FIG. 3 shows a person installing the present invention **100** onto his or her finger **10**. A flexible strip **6** of loop type fastening material is fixedly attached to one end **18** of the C shaped ring housing **8** and hook type fastening material **8** fixedly attached to the opposite end **20** of the C shaped ring housing **8**. The user grabs strip **6** by fingers **24** and wraps it around the underside of finger **10** and fastens strip **6** to loop material **14** located on opposite C shaped end **20**. In this way, the TV mute ring of the present invention **100** can snugly fit a wide variety of finger sizes. Since the ring **100** provides a single function and is relatively small in size, it can be manufactured inexpensively and therefore be sold at a reasonable price.

While the invention has been described in connection with a preferred embodiment, it is not intended to limit the scope of the invention to the particular form set forth, but on the contrary, it is intended to cover such alternatives, modifications, and equivalents as may be included within the spirit and scope of the invention as defined by the appended claims.

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What is claimed is:

1. TV Mute Finger Ring comprising:

a [hollow C shaped] finger ring housing;

said housing containing the standard electronics and IR-transmitting LED associated with activating the mute function of a standard TV;

said housing also containing a battery type electrical power source;

[said C shaped ring housing having a loop type fastener strip attached to one end of said C shaped ring housing and a hook type fastening panel affixed to the opposite end of said C shaped ring housing so that said loop type fastener can removable attach to said hook fastener thereby forming a full ring that can be worn on the user's forefinger;]

said [C shaped] ring housing containing a momentary volume on-off switch [and attached outwardly accessible switch cover] connected to said standard electronics and located in a position where the user's thumb can easily reach said switch [cover]; and

[said IR transmitter being covered by a transparent plastic lens that is flush with the outer surface of said C shaped ring housing; and]

[said plastic lens positioned so that said lens and] said IR transmitting LED [are] being positioned in the ring housing so as to be pointed outwardly in the general direction of said TV.

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2. A TV mute ring as described in claim 1, wherein said volume on-off switch is located on top of said ring [housing,] housing in such a position that a TV viewer's thumb will naturally fall on or near said switch when said viewer is wearing the ring, in a normal position with said IR [window] transmitting LED facing forward in the general direction of said TV.

3. A TV mute ring as described in claim 1, wherein said volume on-off switch is a push button switch.

4. A TV mute ring as described in claim 1, wherein the IR transmitting LED includes a transparent plastic lens.

5. A TV mute ring as described in claim 1, wherein the finger ring housing is generally C-shaped and including a strip of flexible material connected to the housing to form a full ring to engage on a user's finger and to fit different finger sizes.

6. A TV mute ring as described in claim 5, wherein the strip of flexible material extends from one end of the C-shaped housing and engages with an opposite end of the C-shaped housing, one of the strip and the housing having hook type fastening material and the other housing loop type fastening material.

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