Dec. 29, 1959 J. H. BROWN 2,919,318

PORTABLE ALARM

Filed July 8, 1957

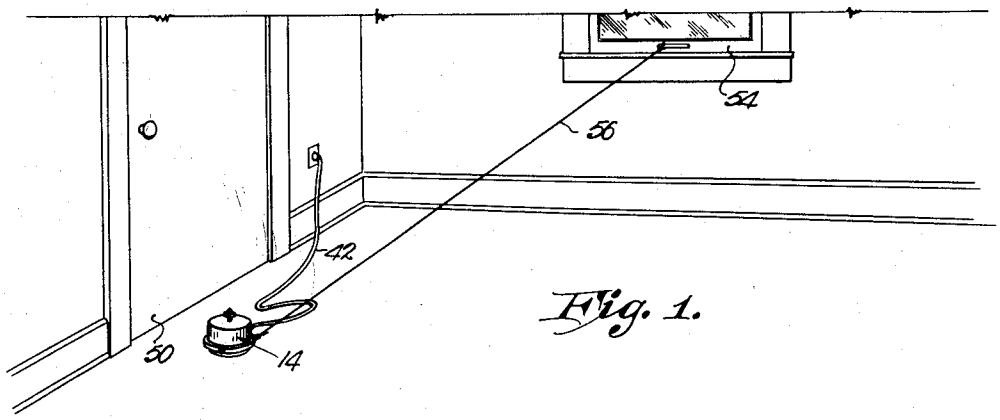


Fig. 1.

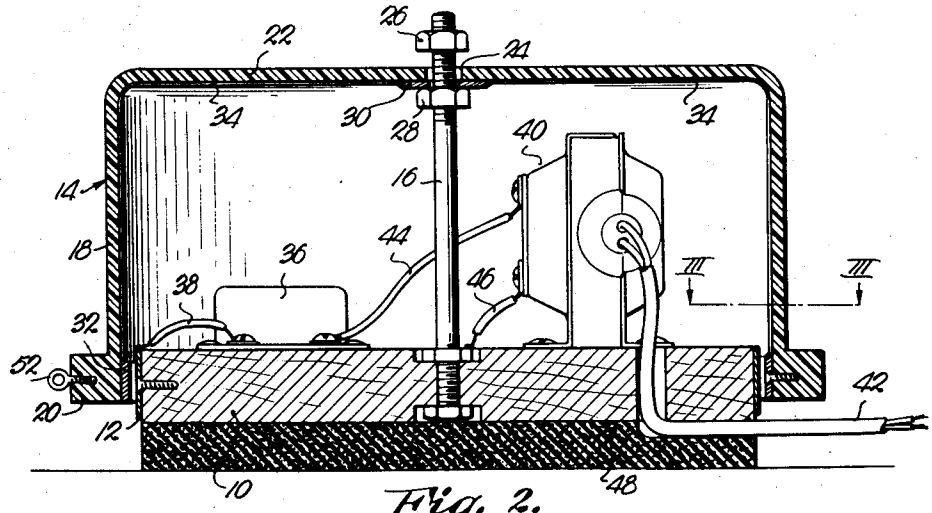


Fig. 2.

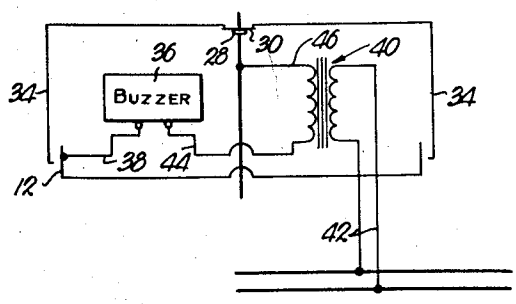


Fig. 4.

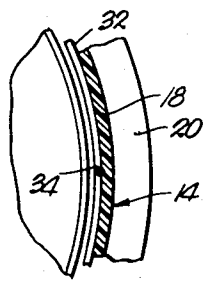


Fig. 3.

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PORTABLE ALARM

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1 Claim. (Cl. 200—61.52)

This invention relates to a burglar alarm and more particularly, to apparatus of such nature which is fully portable and, therefore, adapted for positioning within the path of travel of any door, or for operable connection with a window, to the end that unauthorized entry is detected by virtue of the operation of the signal means forming a part of the alarm.

It is the most important object of the present invention to provide a relatively small, inexpensive, and positively operating burglar alarm that is highly sensitive to the extent that the same is "tripped" upon the slightest movement being imparted thereto either by a door coming into engagement therewith or the opening of a window to which the alarm is operably connected.

Another important object of the present invention is to provide a portable alarm which embodies a tiltable member capable of closing an electric circuit through a signal device whenever the member is tilted but a slight amount in any direction.

A further object of the instant invention is to provide a portable alarm embodying a base tiltably supporting a hood or the like, to the end that the electric signal is energized whenever the hood is tilted by virtue of interengagement of a pair of annular, relatively telescoped conductors secured to the base and the hood respectively.

Other objects include important details of construction, all of which will be made clear or become apparent as the following specification progresses, reference being had to the accompanying drawing, wherein:

Fig. 1 is a perspective view of a portable alarm embodying my present invention illustrating the same in operative use.

Fig. 2 is an enlarged, vertical, cross-sectional view through the alarm.

Fig. 3 is a fragmentary, detailed, cross-sectional view taken on line III—III of Fig. 2; and

Fig. 4 is a wiring diagram illustrating the electrical components of the alarm.

As best seen in Fig. 2 of the drawing, a circular base **10** of nonconducting material is circumscribed by an annular conductor **12** rigidly secured thereto. Base **10** in turn supports a tiltable member **14** in the nature of a hood through the medium of an upstanding post **16** of metallic or other electrical conducting material.

Hood **14** is preferably of nonconducting material and has an annular side wall **18** that is in turn provided with an annular boss **20** integral therewith and in circumscribing relationship thereto adjacent the lowermost open end of the hood **14**. Additionally, the hood **14** has a top wall **22** provided with a central opening **24** that receives the post **16**, hood **14** being held against displacement by virtue of the top wall **22** being interposed between a pair of nuts or other abutments **26** and **28** on the post **16**.

A metallic washer or the like **30**, on the post **16** between nut **28** and wall **22**, is electrically coupled with an annular conductor **32** by wire means **34**. The conductor **32** is secured to the wall **18** of hood **14** within and adjacent the lowermost open end of the latter in surrounding relationship to the conductor **12** and normally disposed in concentric relationship thereto. Opening **24** in the top wall **22** of hood **14** is sufficiently large to permit tilting movement of the hood **14** in all directions to thereby bring the conductor **32** into physical engagement with the conductor **12**. Conductors **12** and **32** form a normally open switch and are operably coupled with an electric signal **36** secured to the upper face of base **10** within hood **14** and taking the form of a bell, buzzer, or other signaling means.

The electric signal **36** is operably connected with conductor **12** by line **38** and with the conductor **32** through the post **16**. To this end, a transformer **40** within the hood **14** and mounted on the upper face of base **10**, may be coupled with a source of electric energy in the manner shown by Fig. 1 through the medium of an extension cord **42** that extends through the base **10** in the manner illustrated in Fig. 2. Wires **44** and **46** operably couple the transformer **40** with signal device **36** and with post **16** respectively.

A skid-proof element **48** mounted on the lower face of the base **10** may be in the nature of foam rubber, plastic sponge material, or other frictionable substances to impede free sliding movement of the alarm along the floor as shown in Fig. 1 when the alarm is struck by opening of door **50**. One or more eyelets **52** may be provided on the annular boss **20** permitting connection of the hood **14** with a window **54** through the medium of a cord or the like **56**.

It is manifest from the foregoing that the alarm may be positioned within the path of travel of door **50** as illustrated in Fig. 1, and when operably coupled with a source of electrical energy through extension cord **42**, the signal device **36** will be energized forthwith upon any movement causing the hood **14** to tilt from the normal position shown in Fig. 2.

More specifically, when the door **50** is opened and moved against the boss **20** of the hood **14**, the latter is caused to tilt about the supporting post **16**, moving the conductor **32** into engagement with the conductor **12**. This closes the electric circuit through the signal device **36** as is apparent from both Figs. 2 and 4 of the drawing.

Alternately, if the alarm is coupled with the window **54** through cord **56** as above described, opening of the window **54** by unauthorized persons will cause the hood **14** to tilt, again closing the switch means provided by conductors **12** and **32** and thereby energizing the electric circuit within which the transformer **40** and the electric signal **36** are interposed.

Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:

For an electric, portable burglar alarm having an electric signal device and conductors connecting the signal device with a source of electric current; a circuit closer for controlling the passage of electric current through the conductors comprising a base of material incapable of conducting an electric current; a head member circumscribing the base, said hood member being of material incapable of conducting an electric current, there being conductors on the base and hood member respectively, the conductor on the base being a ring and the conductor on the hood member being a ring circumscribing the conductor ring on the base, said conductors on the base and

hood being joined to the conductors connecting the device to a source of electric current; and a support of conductive material on the base adapted to normally carry the hood member in a position with its conductor out of contact with the conductor on the base and to permit swinging movement of the hood member to a position with its conductor in contact with the conductor on the base, said support being provided with a plate of conductive material, there being a conductor of current interconnecting the conductor on the hood and said plate.

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