May 14, 1968 L. A. GARLING 3,383,673

ALARM CIRCUIT

Filed Oct. 21, 1965

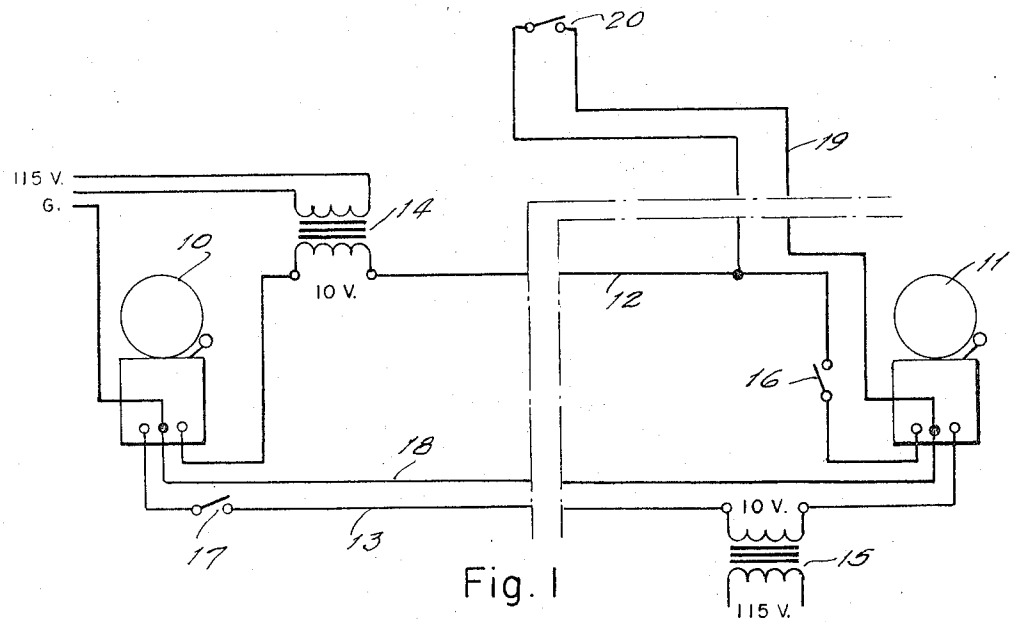


Fig. 1

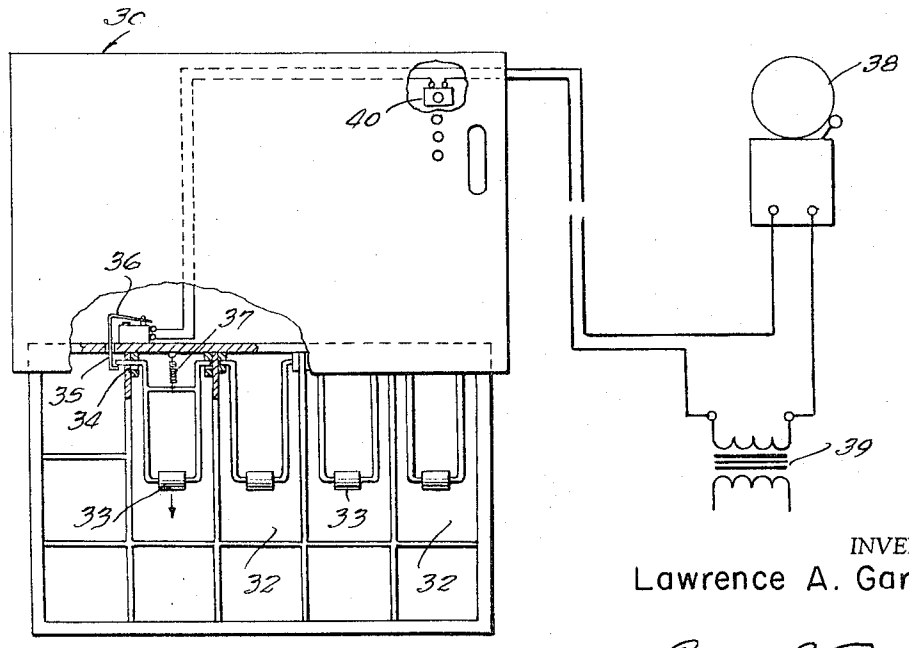


Fig. 2

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ALARM CIRCUIT

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1 Claim. (Cl. 340—274)

This invention relates to a signal device, and it has particular reference to certain specific improvements in electrically operable signal means of a type which includes one or more bells or other alarm devices, and which in one form of the invention includes a plurality of such alarm devices which are operable selectively, individually or together, from any one of a plurality of different points located at any distance from each other and from said alarm devices, as desired.

While signal devices of the type indicated are generally well known and have heretofore been employed in one form or another for emergency as well as routine use, the novel concepts contemplated by this invention are believed to represent substantial contributions to the art, and are believed to be of special interest at the present time in view of the frequent incidence of violence and lawlessness and the need for providing adequate protection even in remote areas, and in places where ordinary means of communication may not be sufficient.

A prime object of the invention is that of providing an arrangement in which two or more of such alarm devices are incorporated in the same system and which advantageously may be employed by neighbors or persons living or working in widely separated areas as a convenient means for signaling to each other for any purpose.

A further object of the invention resides in the provision of an arrangement in which such an alarm device is incorporated in a system which includes a cash register having switch means concealed in a drawer thereof whereby such device is operable.

Broadly, the invention contemplates the provision of signal means as described which is characterized by its simplicity and its dependability, and which may be conveniently installed at low cost and is always ready and waiting when needed.

While the foregoing objects are paramount, other and lesser objects will become apparent as the description proceeds, when considered in connection with the appended drawing wherein:

FIGURE 1 is an electrical diagram showing, in one form of the invention, an arrangement in which two such alarm devices are incorporated in the same system and are operable selectively, individually or together, from either of two different points.

FIGURE 2 is an electrical diagram showing, in another form of the invention, an arrangement in which an alarm device is incorporated in a system which includes a cash register having switch means concealed in a drawer thereof whereby such device is operable.

Referring to the invention as illustrated in FIGURE 1 of the drawing, the numerals **10**, **11** designate generally

a pair of bells or other alarm devices which are operatively connected in two separate electrical circuits, indicated generally by the numerals **12**, **13**, which further include transformers **14**, **15** and switches **16**, **17**, respectively. The transformers **14**, **15** are each connected to a source of electricity and the circuits **12**, **13** have a common ground wire **18**. In operation, the bells **10**, **11** are operable together upon closing either of the switches **16**, **17**.

A bypass circuit **19** having a switch **20** therein is provided whereby the flow of electricity through the circuit **12** may be bypassed around the bell **11**, if desired, by closing the switch **20**, whereby the bell **11** is inoperable upon closing the switch **16** in the circuit **12** but remains operable upon closing the switch **17** in the circuit **13**.

Referring now to the invention as illustrated in FIGURE 2, the numeral **30** designates generally a cash register of conventional design having a cash drawer **31** in which there are a plurality of compartments **32**, some of which have pivotally connected, weighted arms **33** for securing stacks of bills as received in said compartments.

One of the pivotally connected, weighted arms **33** has a loose pivotal connection, as at **34**, and is connected by a link **35** to the normally open contact of an electrical switch **36** for use as hereinafter described. The said one of the pivotally connected weighted arms is acted on by a tension spring **37** whereby said normally open contact of said switch **36** remains open except when the said arm is firmly pulled, as distinguished from moving it about its pivot in the usual manner.

The switch **36** is operatively connected in an electrical circuit which includes a bell or other alarm device, indicated by the numeral **38**, a transformer **39**, and a cut off switch **40**.

In operation, the bell **38** is operable upon closing the switch **36**, assuming that the switch **40** is closed also.

The invention may be modified within certain limitations by persons skilled in the art without departing from the spirit and intent thereof or the scope of the appended claim.

What is claimed is:

1. In combination with a cash register having a drawer, and having compartments in said drawer and having a pivoted, weighted arm in one of said compartments, said arm having a loose pivotal connection whereby it may be displaced slightly by pulling it radially with respect to its pivotal axis, the combination of a switch in said cash register having a normally open contact connected by linkage to said arm whereby said switch is adapted to be closed upon radial displacement of said arm, said switch being connected electrically in a circuit which includes also an electrically operable alarm device.

No references cited.

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