April 21, 1925.

1,534,589

E. S. HAUSSER

ELECTRIC DOORKNOB ALARM

Filed Aug. 29, 1922

2 Sheets-Sheet 1

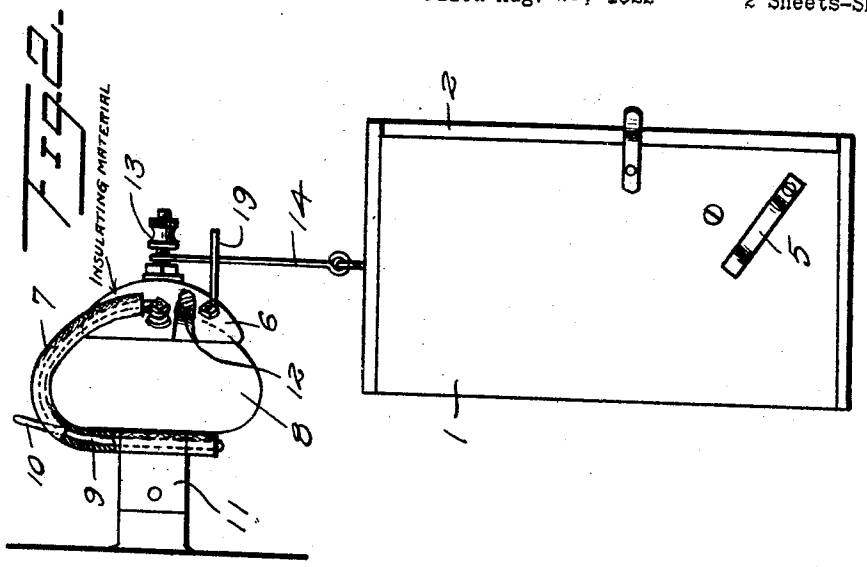


Fig. 2.

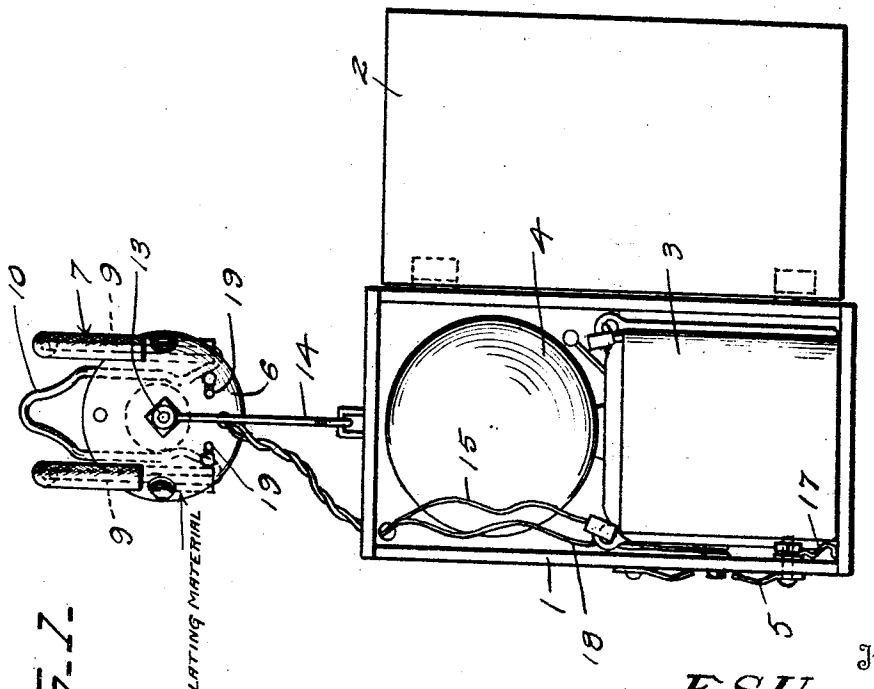


Fig. 1.

Inventor

E. S. Hausser.

By A. Randolph Jr.

Attorney

April 21, 1925.

1,534,589

E. S. HAUSSER

ELECTRIC DOORKNOB ALARM

Filed Aug. 29, 1922

2 Sheets-Sheet 2

Fig. 3.

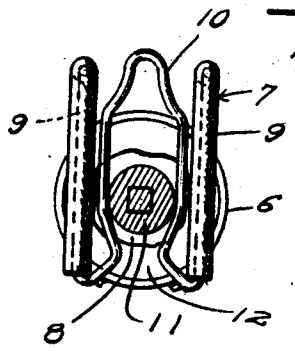


Fig. 4.

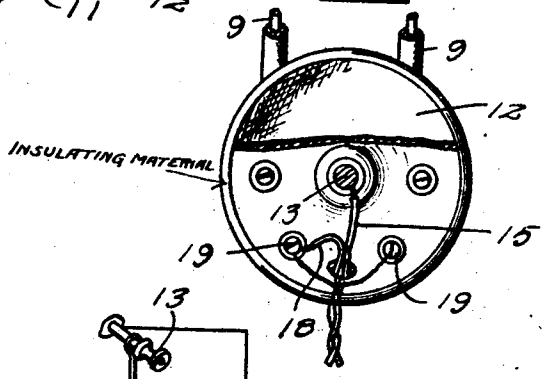
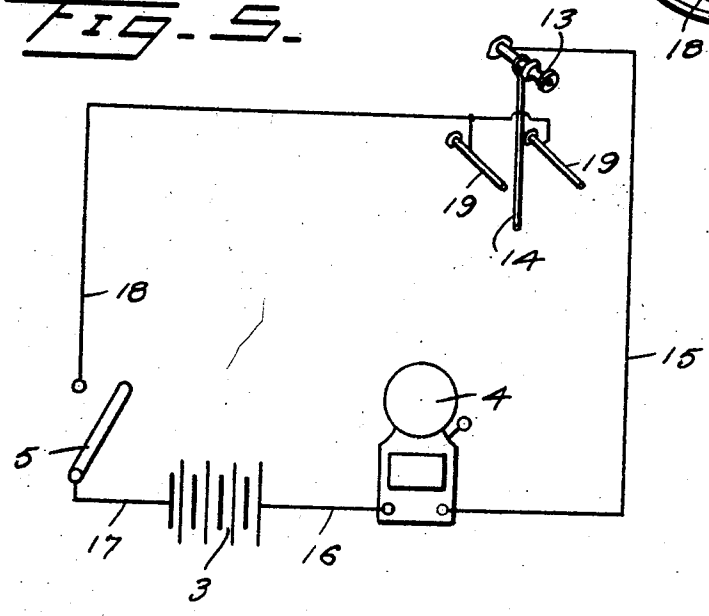


Fig. 5.



Inventor

E. S. Hausser

By A. Randolph Jr., Attorney

Patented Apr. 21, 1925. 1,534,589

UNITED STATES PATENT OFFICE.

EDWARD S. HAUSSER, OF JOLIET, ILLINOIS.

ELECTRIC DOORKNOB ALARM.

Application filed August 29, 1922. Serial No. 585,017.

To all whom it may concern:

Be it known that I, EDWARD S. HAUSSER, a citizen of the United States, residing at Joliet, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Electric Doorknob Alarms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention provides a portable alarm which may be readily attached to a door knob or readily detached therefrom and which is adapted for use either as a burglar alarm or for summoning one to the door.

The alarm comprises a box or case which contains a battery and an electric bell, buzzer or analogous signal contrivance. A clamp is provided and is adapted to grip the door knob and the box or case is suspended therefrom, said clamp being provided with circuit closing elements which are brought into contact upon turning the door knob in either direction, whereby to effect a sounding of the alarm, the alarm circuit including a switch whereby to throw the arrangement out of action when required.

Other objects and advantages will be apparent and suggest themselves as the nature of the invention is understood.

While the drawings illustrate an embodiment of the invention it is to be understood that in adapting the same to meet different conditions and requirements, various changes in the form, proportion and minor details of construction may be resorted to without departing from the nature of the invention.

Referring to the accompanying drawings forming a part of the application,

Figure 1 is a front view showing the alarm in operative position,

Figure 2 is a side view of the device as illustrated in Figure 1 partly broken away, showing the door 2 closed,

Figure 3 a rear view of the door knob clamp,

Figure 4 a rear view of the knob clamp partly broken away, and

Figure 5 a diagrammatic view of the wiring system of the alarm.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The numeral 1 designates a box or case of neat and compact structure and provided with a door 2, whereby access may be readily had to the interior and which may be opened more or less to regulate the sound of the audible signal, such as an electric bell or buzzer. A battery 3 and an electric bell 4 or analogous audible signal device are disposed within the box or case 1. A suitable switch 5 is fitted to a side of the box or case 1, whereby to throw the alarm circuit into or out of action as required.

The box or case 1 is adapted to be suspended from a door knob and for this purpose a clamp is provided to engage the door knob and its spindle. The clamp comprises a knob grip 6 and a knob and spindle clip 7. The knob grip 6 consists of insulating material and is of concavo-convex shape to fit the outer side or front of a knob 8. The knob and spindle clip 7 is preferably formed from a length of spring wire of suitable gage, bent to provide inverted U-shaped side members 9 and an intermediate loop 10 which is open at the bottom and closed at the top, the side members of the loop being outwardly bowed or crimped to fit about the spindle 11 of the knob 8. This clip is attached to the knob grip 6 by means of the side members 9 and the latter are covered to frictionally engage the knob 8 to insure a turning of the clamp with the knob which is essential to effect a sounding of the alarm. A lining 12 is applied to the inner or concave side of the knob grip 6 to insure frictional engagement, whereby the knob and clamp will turn together. Any suitable fastening means may be employed for attaching the clip 7 to the part 6.

A binding post 13 is disposed centrally of the knob grip 6 and projects outwardly therefrom. A link 14 is loosely connected at one end to the binding post 13 and is similarly connected at its lower end to the top of the box or case 1. The link 14 constitutes a hanger and a pivoted or swinging contact. A wire 15 connects the binding post 13 with the electric bell 4 or analogous signal device, and a wire 16 connects the other terminal of the bell with one pole of the battery 3. A wire 17 connects the other pole of the battery with the switch 5, and a wire 18 connects the switch with fixed spaced contacts 19 arranged upon opposite sides of the contact 14. The contacts 19 project outwardly from the knob grip 6 and may be con-

nected thereto in any preferred way. The lining 12 covers the connections which otherwise would appear upon the inner or rear side of the knob grip 6. The arrangement of the circuit is obvious on reference to Figure 5 of the accompanying drawings. When the signal is in position, that is, suspended from the knob of a door and the switch 5 is closed, turning of the knob 8 either to the right or left closes the alarm circuit by bringing one or the other of the contacts 19 in engagement with the contact 14. Under normal conditions, the contact 14 occupies a position intermediate the contacts 19 with the alarm circuit open. If for any reason it is required to throw the alarm out of action, the switch 5 is opened, thereby preventing closing of the circuit, even though the contacts 14 and 19 are caused to engage by a turning of the knob.

What is claimed is:

1. In an alarm of the character specified, a door knob clamp comprising a knob grip and a knob and spindle clip, the latter comprising members adapted to grip opposite sides of the knob and a loop for engaging about the knob spindle and switch means carried by the knob grip and operable through movement of the knob.

2. In an alarm of the character specified, a door knob clamp comprising a knob grip having its engaging face depressed to conform to the front of the knob, and a knob and spindle clip comprising U-shaped side members and an intermediate loop, the latter having its side elements outwardly bowed to clear the knob spindle and switch means carried by the grip knob and operable through movement of the knob.

3. In an alarm of the character specified, a battery and an alarm device constituting a unit, a clamp to be attached to a door knob, a contact pivoted at its upper end to said clamp and depending therefrom, said contact forming a suspending means between the clamp and unit, contacts carried by the clamp spaced on each side of and adjacent to the suspending means, said second named contacts adapted to turn with the knob to come into contact with the suspending contact to close a circuit to said alarm device upon turning movement of the knob, and said unit serving as a weight to maintain the first mentioned contact in a neutral position.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD S. HAUSSER.

Witnesses:
JOHN J. WELLINTZ,
JOSEPH F. FARRELL.