June 17, 1930. C. C. FERRIS 1,765,223

DISPLAY RACK

Filed Jan. 27, 1926 3 Sheets-Sheet 1

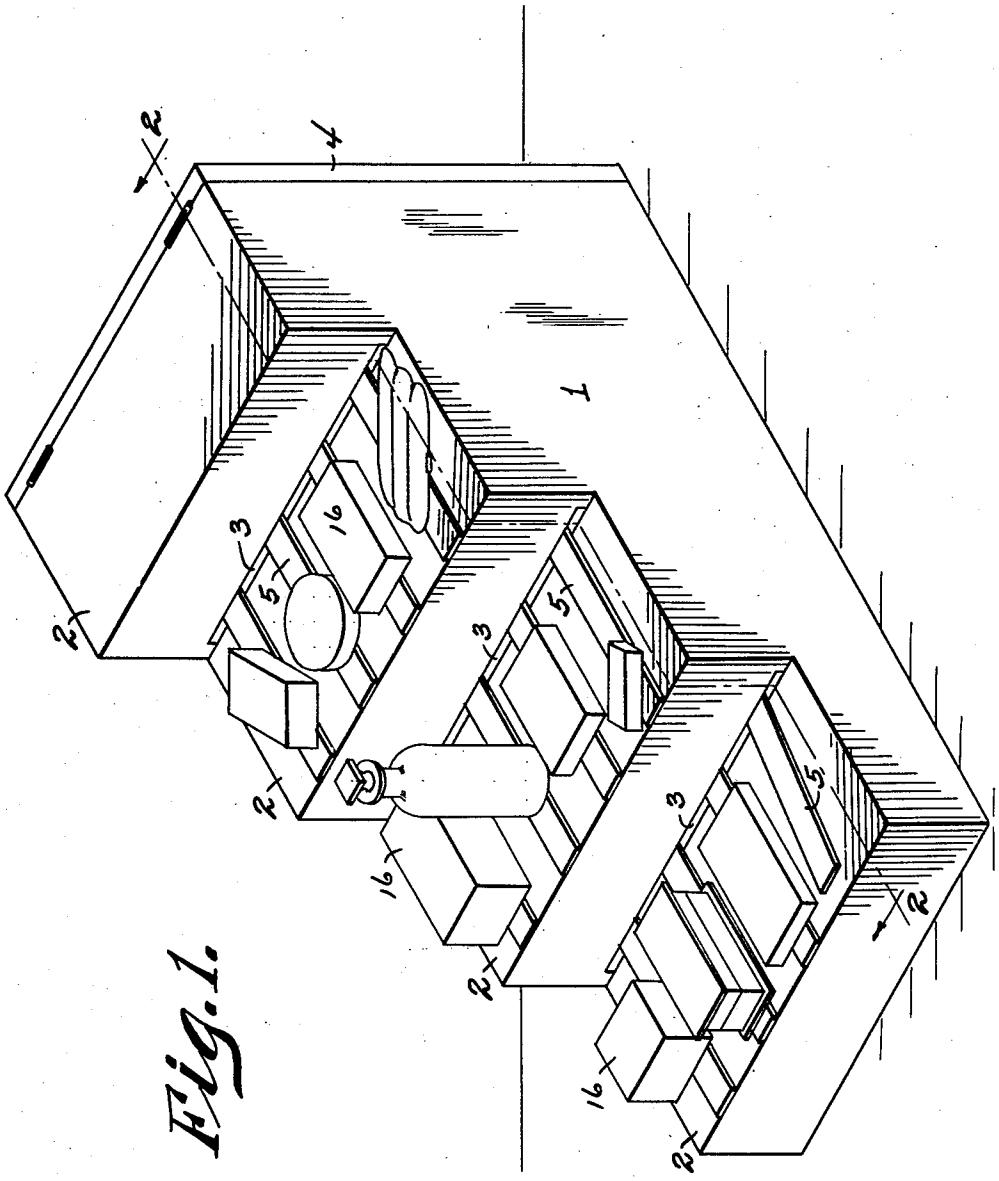


Fig. 1.

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INVENTOR

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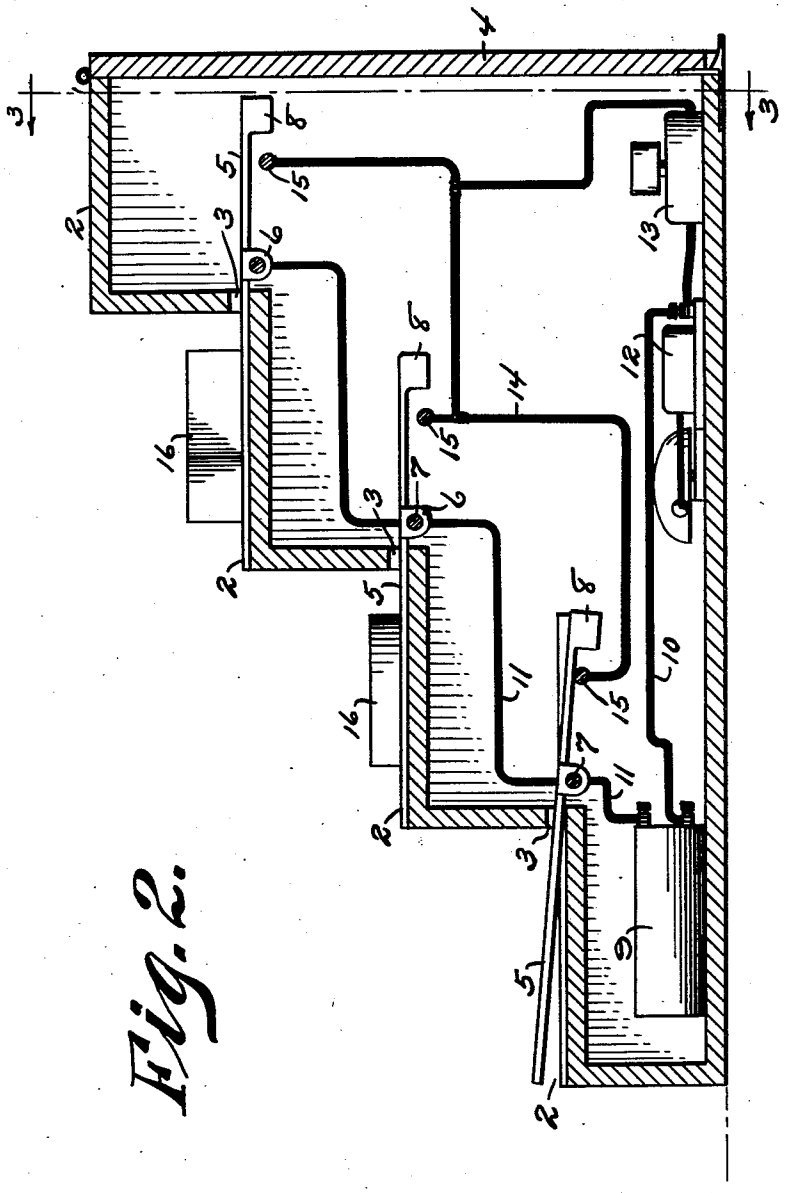


Fig. 2.

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Fig. 3.

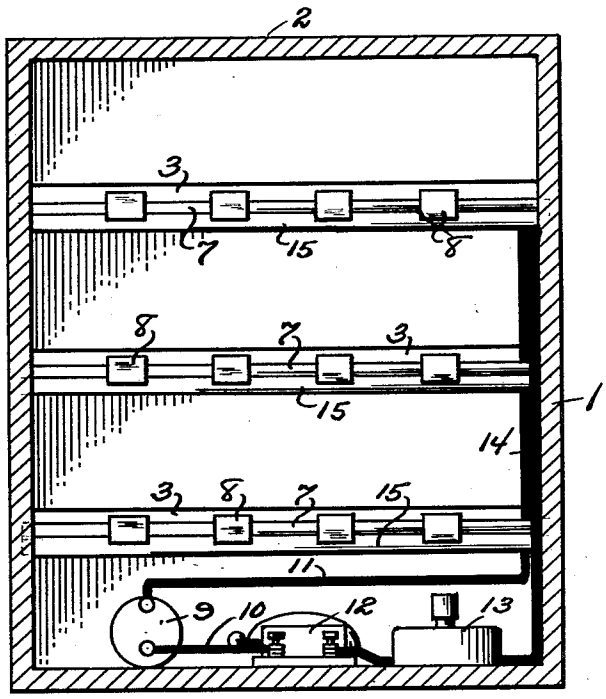
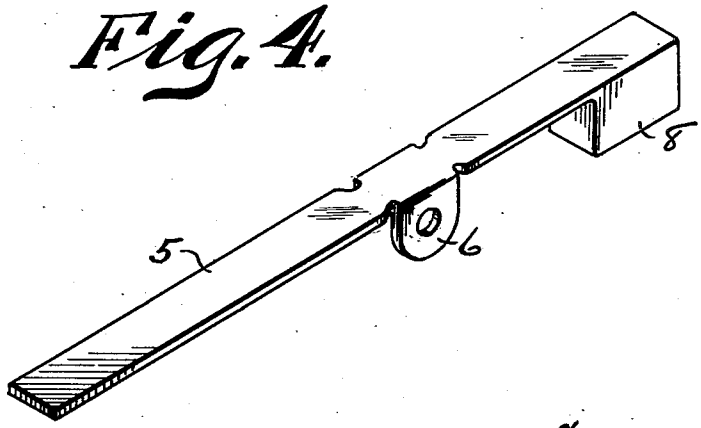


Fig. 4.



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Patented June 17, 1930

1,765,223

UNITED STATES PATENT OFFICE

CURZON C. FERRIS, OF ELMIRA, NEW YORK

DISPLAY RACK

Application filed January 27, 1926. Serial No. 84,181.

My present invention has reference to a display rack or stand, and my object is the provision of a device for this purpose of such construction that when an article on display is removed from the rack or stand an electric circuit will be completed to sound an alarm to give warning that the said article has been removed either surreptitiously or in order that a similar article may be replaced on the stand.

A still further object is the provision of a device for this purpose in which articles to be displayed rest on circuit closers which have their inner ends weighted so that when an article resting thereon is removed the said circuit closers will swing and by virtue of such swinging complete an electric circuit in which there is an alarm such as a buzzer or bell.

The invention also resides in certain other features of construction, combination and operative association of parts, a satisfactory embodiment of which is illustrated by the accompanying drawings.

In the drawings:—

Figure 1 is a perspective view of the improvement.

Figure 2 is a sectional view on the line 2—2 of Figure 1.

Figure 3 is a sectional view on the line 3—3 of Figure 1.

Figure 4 is a perspective view of one of the metal plates that constitutes a circuit closer.

In the showing of the drawings, the stand is in the nature of a box-like structure 1. The stand 1 is stepped to provide the same with spaced horizontal shelves 2, the vertical walls between the shelves at their juncture with the shelves, being slotted, as at 3. The rear and elevated end of the body 1 is open, but is closed by a hinged door 4.

Arranged over the shelves 2, and passing through the slots or openings 3, there are spaced metal plates 5. Each of these plates is formed on its sides with downturned aligning ears 6 and passing through these ears there is a metal bar or shaft 7 that is fixed between the sides of the body 1. The inner ends of each of the plates 5 is weighted, as at 8. The weighted ends of the plates will swing the same to tilt the outer portions thereof.

In the hollow body 1 there is arranged a battery 9 having conductors 10 and 11 leading therefrom. The conductors 10 lead to a bell 12, and if desired, to a buzzer 13 and from thence are directed upwardly and provided with branches 14 that are secured to transverse metal bars 15 arranged respectively beneath the inner ends of the plates 5 and in the path of contact with the said plates when the latter are swung through the medium of the weighted ends 8 thereof. It will be obvious that any one of the plates when thus swung will complete the electric circuit and sound the elements 12 and 13.

Each of the plates 5 is in the nature of a circuit maker and each of the plates 5 is designed to be arranged in contacting engagement with the shelves, 2, by the weight thereon of articles 16 to be displayed on the device. Thus it will be apparent that the removal of any of the articles 16 will permit of the automatic swinging of the circuit makers to complete the circuit to sound the bell 12 and the buzzer 13. This gives ample warning to the owner of the stand that an article has been removed therefrom. If the article has been removed surreptitiously the proprietor can readily detect the thief and if the article should have been moved in the course of a business transaction the alarms will indicate that the said article is to be replaced on the stand.

Having described the invention, I claim:—

In combination with a hollow stepped-like support, having a transverse slot arranged above and adjacent the stepped portion of the support, of a circuit closer for a normally open circuit including a transversely arranged rod arranged within and mounted on the support, a second rod similarly supported but in spaced relation to the first mentioned rod, said first mentioned rod constituting a fixed contact for the circuit, a substantially flat metallic bar partly arranged within the support, and having a portion projecting through the slot and located directly above the step thereof, de-

pending apertured lugs formed on the bar slightly to one side of the transverse center thereof and pivotally supporting the bar on the second mentioned rod, the inner end of said bar being thickened to weight the bar at one end, and the exposed portion of the bar being adapted to normally contact the step held in such position by removable objects, to maintain the bar in spaced relation to the fixed contact.

In testimony whereof I affix my signature.

CURZON C. FERRIS.