

W. A. HALL.
HANGER.
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1,064,723.

Patented June 17, 1913.

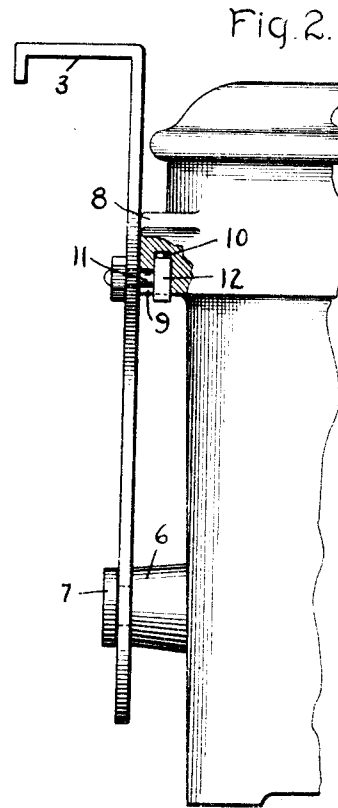
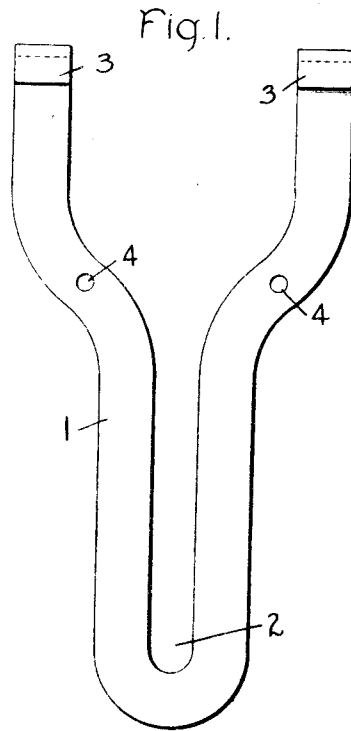


Fig. 3.

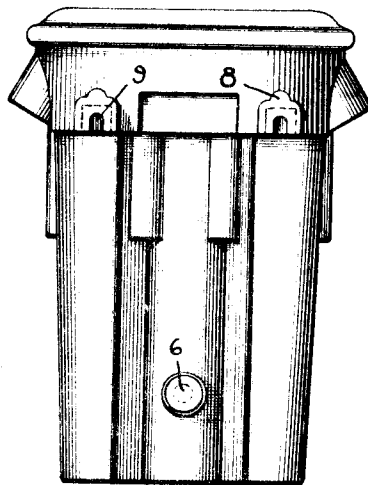
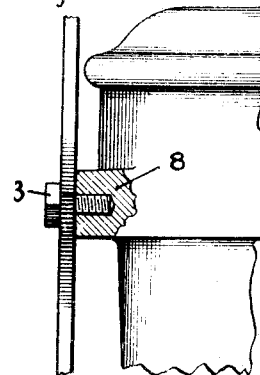


Fig. 4.



Witnesses:

Frederic E. Steers
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UNITED STATES PATENT OFFICE.

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HANGER.

1,064,726.

Specification of Letters Patent. Patented June 17, 1913.

Application filed February 11, 1911. Serial No. 607,975.

To all whom it may concern:

Be it known that I, WALTER A. HALL, a citizen of the United States, residing at Swampscott, county of Essex, State of Massachusetts, have invented certain new and useful Improvements in Hangers, of which the following is a specification.

My invention relates to hangers, and the object of my invention is to provide a hanger or suspending device which may be used to quickly attach the device to be suspended to the supporting means.

In the drawings, which form a part of this specification, similar reference characters refer to the same parts.

Figure 1 is a rear elevation of my suspending device. Fig. 2 is a side view partly in section of my suspending device showing one means of attaching it to a case to be suspended. Fig. 3 is a rear elevation of the case in Fig. 2 showing more clearly the lugs of the case. Fig. 4 is an elevation partly in section of a part of my suspending device showing another means of attaching the upper part of a suspending device to the suspended case.

My invention is designed particularly to be used in suspending transformer cases from cross arms on poles but obviously its use is not so limited, but it may be used to suspend any device wherever it may be desired.

My hanger 1 is designed to be made in a general U-shape somewhat narrower near the bottom, as shown at 2, than at the top. In order to attach this hanger to the supporting means, as a cross arm, some engaging means must of course be used attached to the rear of the hanger. I prefer to employ hooks 3 at the top of the hanger as shown. These hooks are of a size and shape adapted to engage over a common cross-arm.

Somewhere near the middle of the device, it is preferable that provision be made for attaching means to engage the case. While there are various ways of providing this attachment I prefer to provide the bolt openings 4, through which bolts are passed.

The casing or device to be suspended is provided on its rear with a headed lug 6. This lug, it will be noted, has a narrow portion with a head 7. Supplemental engaging lugs 8 are also provided on the rear of the case. While these lugs may be made

in various shapes to provide for their attachment to the hanger 1, I have shown two forms of supplemental engaging lugs. In the forms shown in Figs. 2 and 3, a slot 9 and a larger opening 10 are provided. A headed bolt 11 passes through each of the openings 4 and the head 12 of the bolt engages in the larger opening 10 while the shank of the bolt passes through the slot 9 as is clearly shown in Fig. 2. This lug 8, as shown in Fig. 4, may, however, be provided merely with a screw threaded hole to receive a threaded bolt 13 passing through each of the openings 4.

In using my device the hanger 1 may be placed in position on the cross-arm or other supporting means. The suspended case may then be lifted up until the head 7 of the lug 6 can pass through the larger part of the hanger, then the case may be lowered parallel to itself with the narrow part of the lug 6 passing down through the narrow part 2 of the hanger 1 until the lugs 8 come opposite the openings 4. If the mode of attachment of the lugs 8 shown in Fig. 2 is used the bolt heads 12 of the bolts 11 will readily pass into the openings in the lugs 8. If the lugs 8 are constructed as shown in Fig. 4 the threaded bolts 13 may be easily inserted through the openings 14 and screwed in position.

Since the narrow portion of the lug 6 is designed to be of a length only slightly greater than the thickness of the hanger 1 and the diameter of this narrow portion is designed to be but slightly less than the narrowed portion 2 of the hanger, and since further the heads 12 and shanks of the bolts 11 are also designed to fit closely in the openings provided, it will be seen that the suspended casing and the hanger may be quickly and securely attached together.

What I claim as new and desire to secure by Letters Patent of the United States, is:—

1. The combination of a substantially U-shaped hanger narrower at the bottom than at the top, with a device to be suspended provided with a lug engaging in the narrowed portion of the hanger, and means in operative relation with the device and the upper portion of the hanger adapted to fasten the device to the hanger.

2. The combination of a hanger narrower at the bottom than at the top provided with attaching and engaging portions, with a de-

vice to be suspended provided with a lug engaging in the narrowed portion of the hanger, means in the upper portion of said device for suspending the same, and means
5 in operative relation with said means and said attaching portions for fastening the device to the hanger.

3. The combination of a hanger narrower at the bottom than at the top and provided
10 with attaching openings and engaging portions, with a device to be suspended pro-

vided with a headed lug engaging in the narrowed portion of the hanger and with bolt receiving openings, and bolts in the attaching openings of the hanger and the
15 receiving openings of the suspended device.

In witness whereof, I have hereunto set my hand this 9th day of February, 1911.

WALTER A. HALL.

Witnesses:

JOHN A. McMANUS, Jr.,

FRANK G. HATTIE.