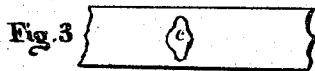
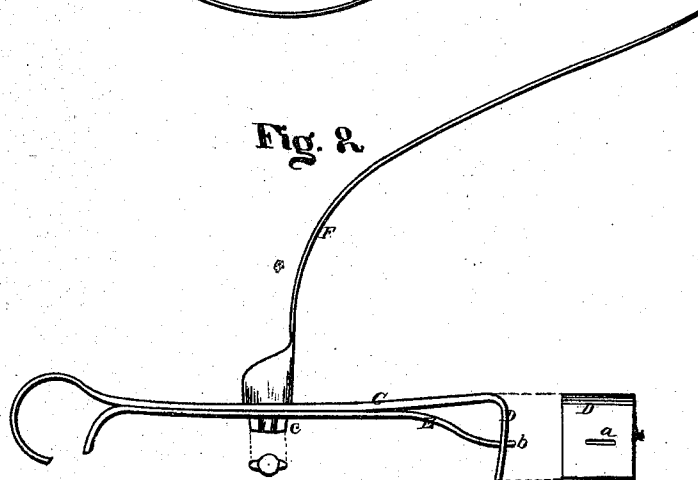
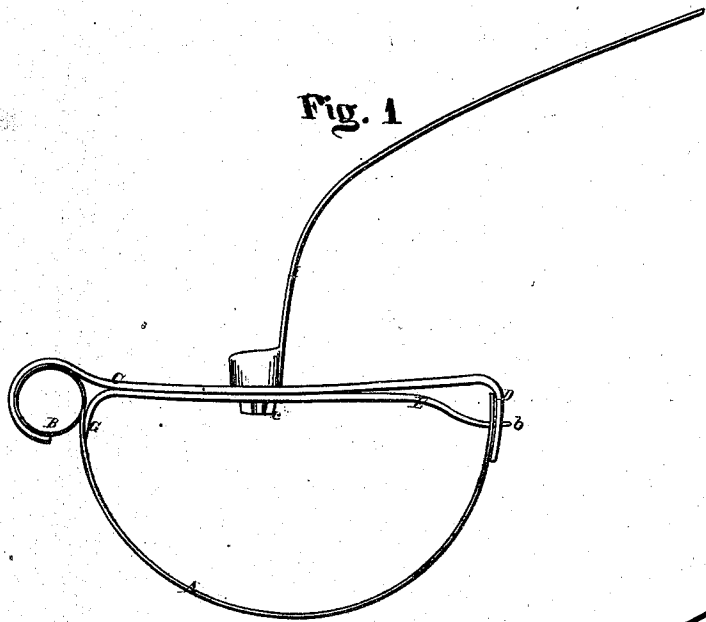


J. P. Abbott,

Leaves Trough.

No. 105404.

Patented July 19, 1870.



Inventor
J. P. Abbott
per Burridge & Co

Witnesses
J. H. Burridge
E. E. Maite

United States Patent Office.

J. P. ABBOTT, OF CLEVELAND, OHIO.

Letters Patent No. 105,404, dated July 19, 1870.

IMPROVEMENT IN EAVES-TROUGH HANGER.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, J. P. ABBOTT, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Eaves-Troughs; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is an end view of the eaves-trough, &c.

Figure 2, a detached view of the hanger.

Figure 3, a detached section.

Like letters of reference refer to like parts in the several views.

This invention relates to a device for hanging eaves-troughs, whereby said troughs can be attached to the building or taken therefrom without removing the hangers whereby the troughs are suspended, as herein more fully described.

In fig. 1—

A represents the eaves-trough, on the outer edge of which is turned a bead, B, over and around which is clasped one end of the bar C, whereas the opposite end is bent down at a right angle over the inner edge of the side of the trough.

The dependent limb D of the angle is pierced with a slotted hole, *a*, fig. 2, for the reception of the point *b*, formed on the end of the brace E. Said brace is locked to the under side of the bar by a key, *c*, terminating the end of the hanger F, by inserting the

same in the keyhole *e*, shown in the detached section, fig. 3.

The practical application of this device to the trough is shown in fig. 1, in which it will be seen that the inner side of the trough is held by and between the limbs D of the bar and shoulder of the brace, at the base of the point *b*, which penetrates the side of the trough and enters the slotted hole *a*, and therein retained by the opposite end being braced against the inside of the trough, as seen at G, fig. 1, thereby preventing the sides of the trough from lateral compression, while the bar prevents it from lateral expansion. The brace and bar thus arranged and attached to the trough are locked together by the key *c*, as shown in the drawing, thereby making the attachment of the trough to the hanger and to the building neat, strong, and durable, convenient, and easy in its adjustment, and simple to manipulate.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the key *c*, hanger F, bar C, brace E, and trough A, constructed and arranged in relation to each other, and used conjointly, substantially as and for the purpose set forth.

J. P. ABBOTT.

Witnesses:

J. H. BURRIDGE,
WELLS PORTER.