W. GRAY.

ATTACHMENT FOR EAVES TROUGHS.

APPLICATION FILED MAY 13, 1920.

1,373,883. Patented Apr. 5, 1921.

Fig. 1

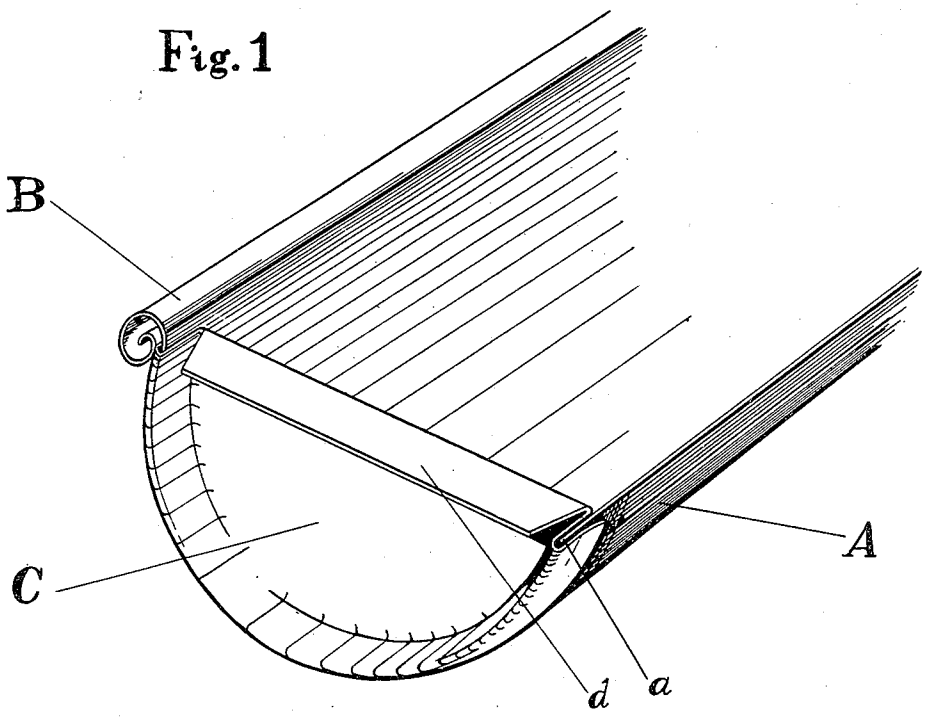
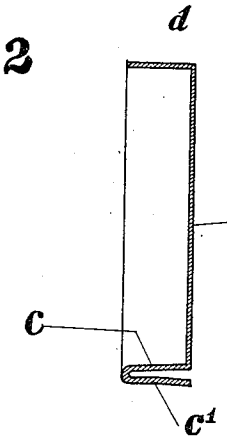


Fig. 2



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ATTACHMENT FOR EAVES-TROUGHS.

1,373,883. Specification of Letters Patent. Patented Apr. 5, 1921.

Application filed May 13, 1920. Serial No. 381,186.

To all whom it may concern:

Be it known that I, WILLIAM GRAY, a citizen of the United States of America, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Attachments for Eaves-Troughs, of which the following is a specification.

The object of my invention is to provide an attachment for eaves troughs, for the purpose of closing the ends of a trough. In a more particular aspect, the invention is intended to provide an integral or one-piece construction which can be quickly and easily attached to the end of a trough, and is held in place by frictional gripping action.

The customary practice heretofore has been to position a flat semi-circular plate within the trough at or adjacent to its end, and secure it by soldering to the adjacent surface of the trough. This procedure requires considerable time and even then does not always produce a satisfactory result. While some attempts have been made to construct a trough end which would be readily attachable, my improvement resides in making such a structure from a single or integral sheet or plate of metal, and imparting the required formation to the plate by successive stamping operations. So far as I am aware, it is new to stamp a device of this character from a single blank of metal, and form it so as to engage tightly with the trough.

The invention consists, in general, of a plate or sheet of approximately semi-circular formation to fit the curvature of an eaves trough, and having a flange along its curved edge. The flange just mentioned is bent upon itself to afford a groove or pocket which receives the end of the trough, and the device is driven or forced upon the trough end and held in place thereon by frictional engagement. The straight edge of the plate may be provided with a flange preferably coextensive therewith in order to stiffen the device and give it maximum strength.

With these and other ends in view, the invention consists in the construction illustrated in the accompanying drawing, the novel features being pointed out in the claims at the end of the following description.

In the drawing:

Figure 1 is a perspective view showing the application of my improvement to an eaves trough of usual form, and

Fig. 2 is a sectional view of the attachment.

In the drawing, A designates the eaves trough with the usual stiffening roll or flange B along one edge. *a* designates the end of the trough to which the end closure is attached.

The end closure or attachment comprises a sheet or plate C of approximately semi-circular form to fit within the trough. In order to afford means for frictionally gripping the end of the trough, the body portion C is provided along its curved edge with a flange bent upon itself affording an outwardly extending portion *c* and an inwardly extending portion *c'*. The walls *c* and *c'* afford between them a pocket or recess that receives the end *a* of the trough.

The walls *c* and *c'* are preferably arranged in such spaced relationship to each other as to receive the trough end with a tight fitting engagement, requiring the attachment to be forced or driven on to the trough, and when once in such position, the walls *c* and *c'* afford a sufficiently tight gripping means to retain the attachment against any ordinary tendency to displace it.

The plate C is preferably provided along its straight edge with a flange *d* to impart rigidity and strength to the device. The attachment is formed from a flat one-piece blank which is subjected to successive stamping operations resulting in the flanges already described.

While I have described a particular embodiment of the invention, my improvement is not limited to the details herein disclosed, but may be modified without departing from the spirit of the invention, and this application is intended to cover any such modifications as may come within the scope of the following claims.

I claim:

1. A one-piece end closure for eaves

troughs having a flange bent upon itself forming a groove for engaging the end of the trough.

2. An end closure for eaves troughs having a flange at one edge bent upon itself forming a groove to receive the end of the trough.

3. An integral end closure for eaves troughs consisting of an approximately semi-circular plate having a flange at its curved edge bent upon itself forming a groove to receive the end of the trough, and a stiffening flange along its straight edge.

4. An end closure for eaves troughs consisting of an approximately semi-circular plate having a flange along its curved edge bent upon itself forming a groove to receive the end of the trough.

In witness whereof I have hereunto signed my name.

WILLIAM GRAY.