No. 702,156. Patented June 10, 1902.

T. RYE.

MITER JOINT FOR EAVES TROUGHS.

(Application filed Feb. 25, 1902.)

(No Model.)

Fig. 1.

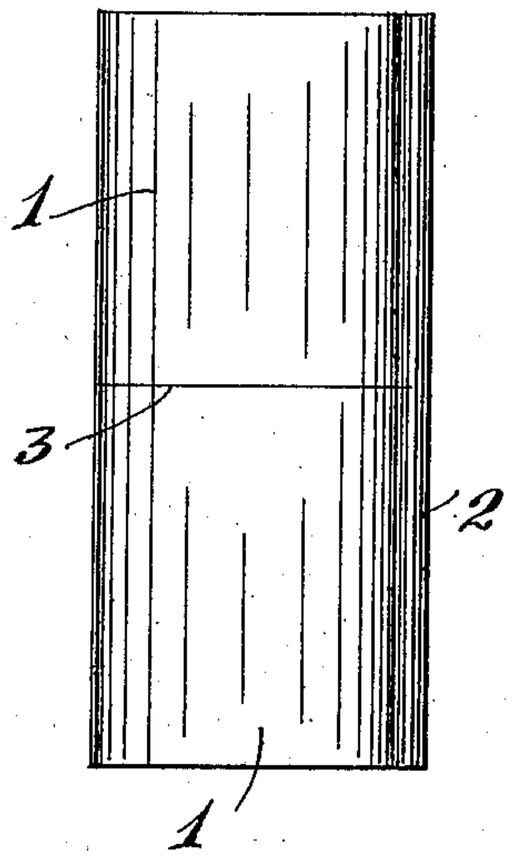


Fig. 2

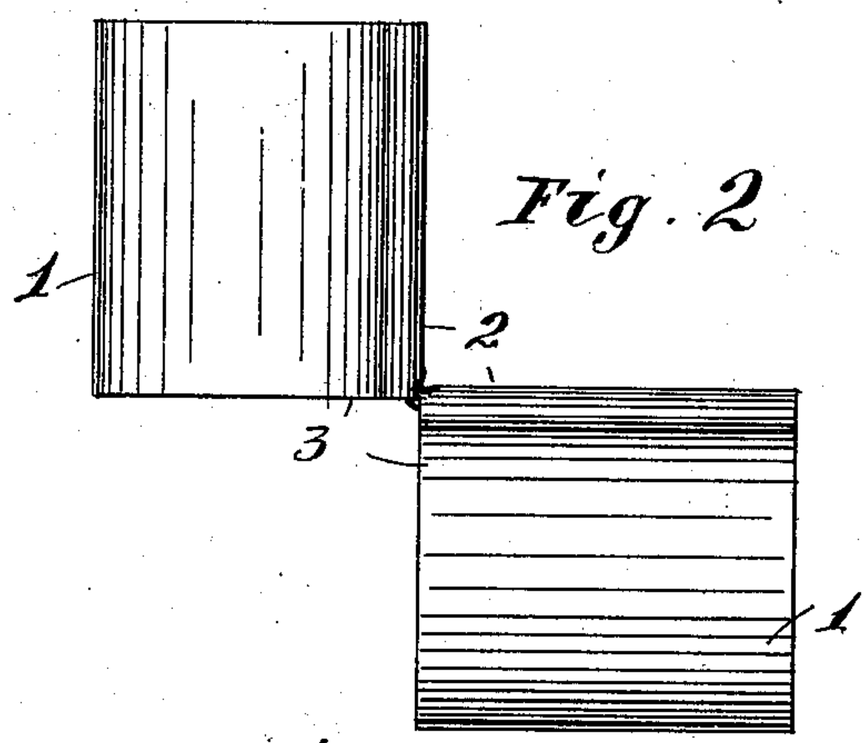


Fig. 3

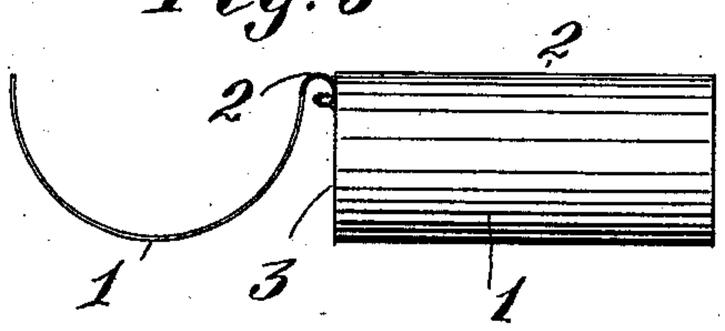


Fig. 4

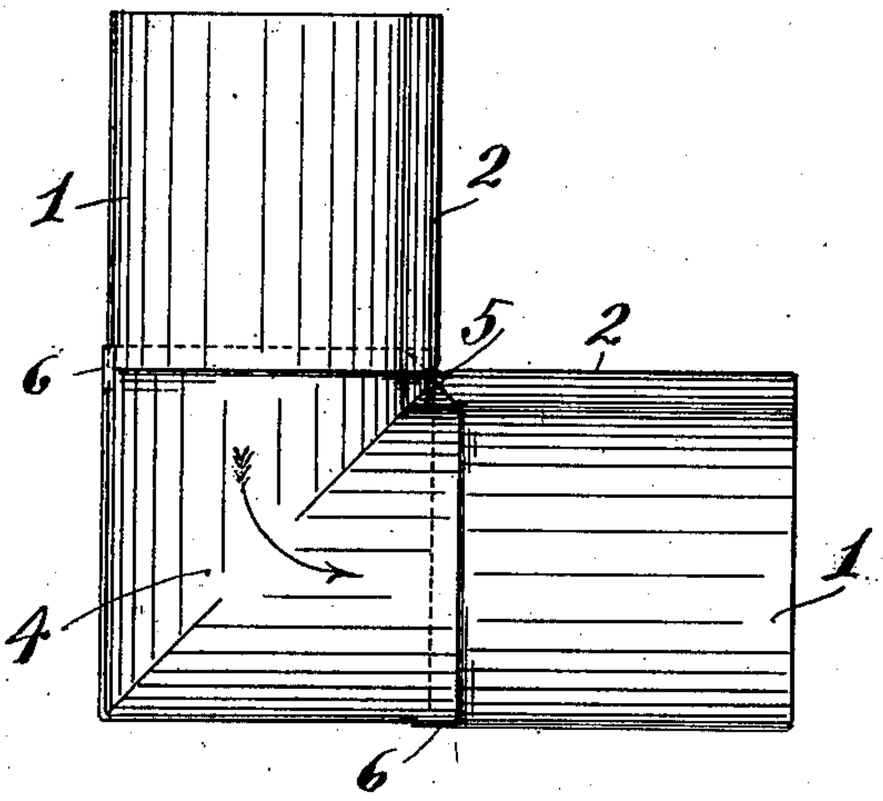


Fig. 6.

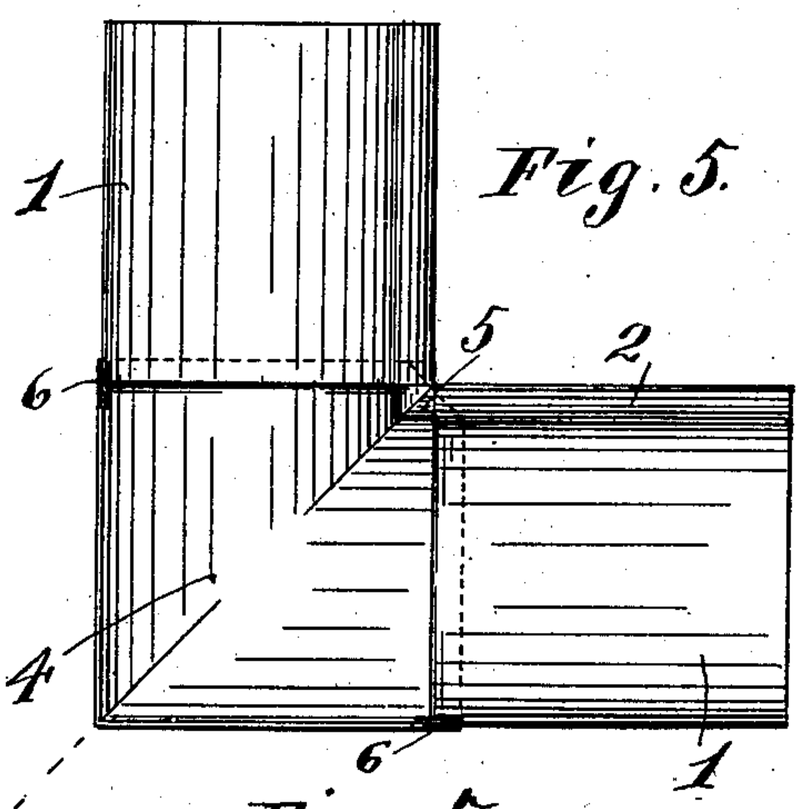
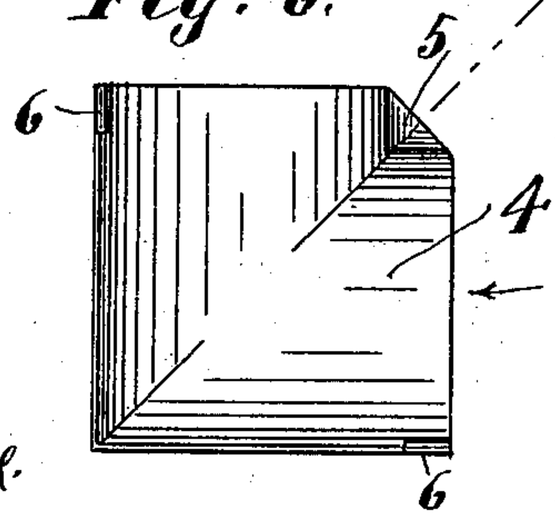
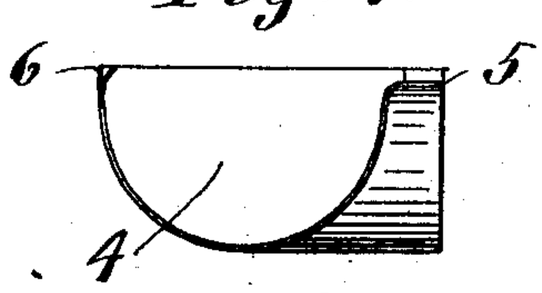


Fig. 7.

Fig. 5.





Witnesses
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By his Attorneys.
Williamson & Merchant.

UNITED STATES PATENT OFFICE.

THOR RYE, OF MINNEOTA, MINNESOTA, ASSIGNOR OF ONE-HALF TO W. A. CROWE, OF MINNEOTA, MINNESOTA.

MITER-JOINT FOR EAVES-TROUGHS.

SPECIFICATION forming part of Letters Patent No. 702,156, dated June 10, 1902.

Application filed February 25, 1902. Serial No. 95,554. (No model.)

To all whom it may concern:

Be it known that I, THOR RYE, a citizen of the United States, residing at Minneota, in the county of Lyon and State of Minnesota, have invented certain new and useful Improvements in Miter-Joints for Eaves-Troughs; 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.

My invention has for its object to provide an improved miter-joint or elbow-coupling for eaves-troughs; and to this end it consists of the novel devices and combinations of devices hereinafter described, and defined in the claims.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Figure 1 is a plan view of the trough-section of the joint before the same has been bent. Fig. 2 is a plan view of the said joint-section after it has been bent. Fig. 3 is a side elevation of the joint-section bent as shown in Fig. 2. Figs. 4 and 5 are plan views of the complete joint. Fig. 6 is a plan view of the elbow-section of the joint, and Fig. 7 is a side elevation of the said elbow-section looking at the same in the direction indicated by the arrow marked in connection with Fig. 6.

The trough-section of the joint is formed from a straight trough-section 1, which at one edge is rolled to form a bead 2 and at its intermediate portion is cut transversely, so that it is severed completely through its body and partly through the roll-bead 2. This section is then bent, as shown in Fig. 2.

The elbow-section 4 of the trough is adapted to be stamped from a flat piece of metal and given the form best illustrated in Figs. 6 and 7.

The sections of the joint are adapted to be put together in several different ways. The high inner portion 5 of the said elbow-section joins with the cut portion of the bead 2 of the trough-section. If the trough is to be inclined so that the water will run over the joint in the direction indicated by the arrow marked in Fig. 4, then the upper end of the elbow-section is placed under the adjacent end of the trough-section 1, while the lower end thereof is placed over the adjacent end of the said trough-section 1, as indicated in Fig. 4. If the water is to run in the other direction, then just the reverse arrangement of the said parts might be provided. However, both ends of the said elbow-section 4 may be placed under the adjacent ends of the trough-section 1, as indicated in Fig. 5. If the parts are to be soldered together, the arrangement illustrated in Fig. 5 will answer the purpose; but if the parts are not to be soldered they must be overlapped, as shown in Fig. 4.

The construction above described is simple, efficient, and of small cost. Furthermore, it may be very quickly put together. The joint-sections 1 may be kept in stock in the form indicated in Fig. 1 and may be bent only when they are to be applied to the joint.

To assist in securing the sections of the joint together, the elbow-section 4 may be provided at the ends of its outer flanges with lips 6, which are adapted to be bent down over the adjacent edges of the trough-section.

It will of course be understood that the joint above described is capable of some modification within the scope of my invention as herein set forth and claimed.

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

1. An eaves-joint involving an elbow-section, and coöperating trough-sections which trough-sections extend at an angle to each other, are directly united at one edge, and are adapted to overlap with the ends of said elbow, substantially as described.

2. An eaves-joint comprising the elbow-section 4 with raised inner portion 5, and the trough-section 1 having the rolled bead 2 and cut transversely at 3 and bent at right angles, which sections are adapted to be put together, substantially as described.

3. An eaves-joint comprising the elbow-section 4 with inner raised portion 5 and clenching-lips 6, and the trough-section 1 having the rolled rib 2, cut transversely at 3 and bent at right angles, which trough-sections are adapted to be put together, substantially as described.

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

THOR RYE.

Witnesses:
O. L. DORR,
C. T. DAHL.