(No Model.)

C. M. BRION.

EAVES TROUGH.

No. 411,574. Patented Sept. 24, 1889.

Fig. 1.

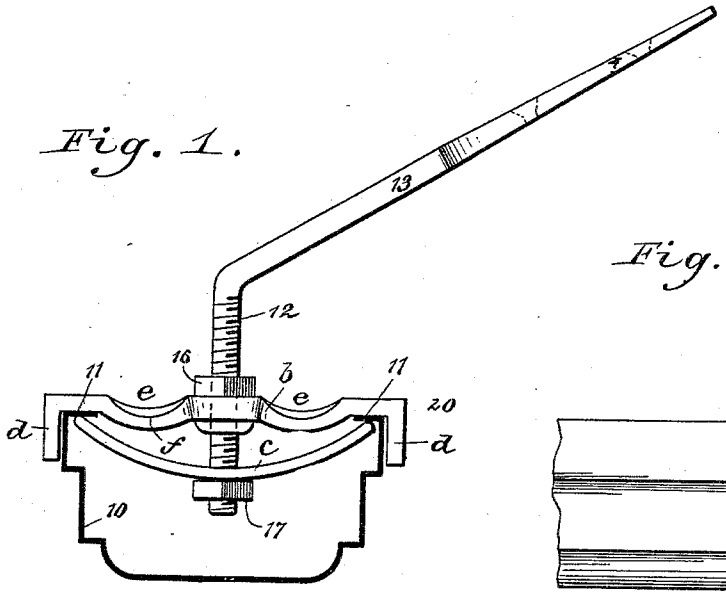


Fig. 2.

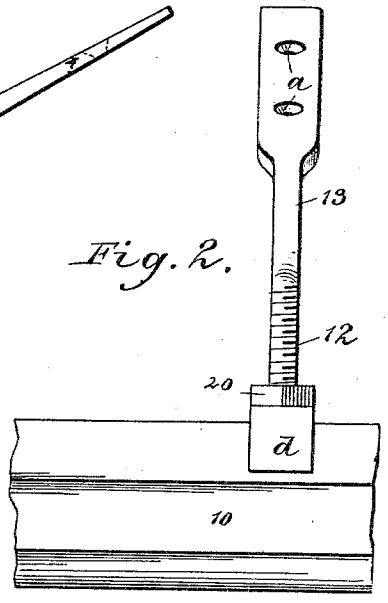


Fig. 3.

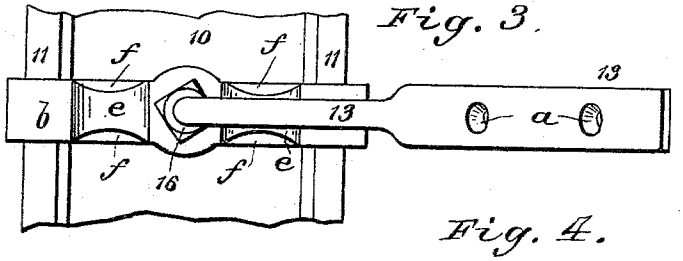


Fig. 4.

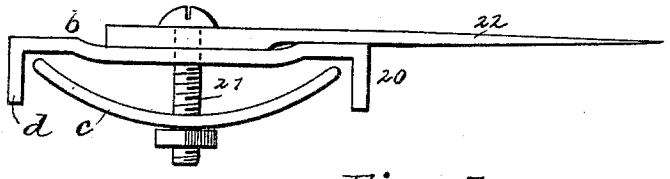
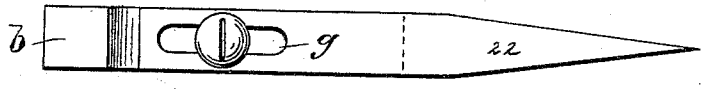


Fig. 5.



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UNITED STATES PATENT OFFICE.

CHARLES M. BRION, OF PROVIDENCE, RHODE ISLAND.

EAVES-TROUGH.

SPECIFICATION forming part of Letters Patent No. 411,574, dated September 24, 1889.

Application filed May 22, 1889. Serial No. 311,687. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. BRION, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Gutter or Eaves-Trough and Hanger, of which the following is a full, clear, and exact description.

This invention relates to gutters or eaves-troughs and hangers for the same, the object of the invention being to provide for the use of a cheaply-made yet durable gutter or eaves-trough and for a hanger by means of which the gutter or eaves-trough is supported, the parts being so arranged that the gutter will be rigidly held to place and in such a manner that all rattling will be avoided. These objects I accomplish by forming the gutter or eaves-trough with inwardly-extending flanges, and by providing a hanger so constructed that the flanges of the gutter or eaves trough will be clamped to place between the hanger members, all as will be hereinafter more fully described, and specifically pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a cross-sectional view of a gutter, representing the same as it appears when upheld by my hanger. Fig. 2 is a side view of the gutter. Fig. 3 is a plan view, Fig. 4 is a side view of a modified form of hanger, and Fig. 5 is a plan view of the hanger shown in Fig. 4.

In the drawings, 10 represents an eaves-trough or gutter, at the upper edges of which there are formed inwardly-extending flanges 11. The hanger, by means of which the gutter so formed with inwardly-extending flanges, as above set forth, is supported, consists of a threaded stem 12, having a shank 13, which may be bent to correspond with the angle of the roof to which the hanger is to be secured, as is represented in Figs. 1, 2, and 3, the shank in this case being apertured, as at *a*, to receive retaining-screws; or the shank may be pointed, as represented in Figs. 4 and 5, said pointed shank being arranged to be driven into the side face of the wall in connection with which the gutter is to be arranged, or any other desired form or shape could be given to the shank—as for instance, the shank might be provided with an apertured section, as shown in Figs. 1, 2, and 3, and such section might be turned down, so as to fit against the face of the wall. The threaded stem 12 carries a clamp 20, that is made up of sections *b* and *c*, the section *b* being formed with downwardly-extending projections *d*, between which the gutter or eaves-trough fits, the flanges 11 of said gutter or eaves-trough resting against the under side of the clamp-section *b*, as represented in Fig. 1, and being borne upon by the ends of the clamp-section *c*, which said clamp-section is curved, as represented.

In order that the clamp-sections may be held to place and brought to bear upon the flange 11, I employ nuts 16 and 17, the nut 16 bearing upon the upper face of the clamp-section *b*, while the nut 17 bears upon the under face of the clamp section *c*, the arrangement being such that by turning up the nut 17 the ends of the clamp-section *c* may be brought to bear hard against the flanges 11, and the clamp will thus act to rigidly hold the eaves-trough or gutter. A proper incline may be imparted to the gutter by adjusting the position of the nuts 16 and 17 upon the threaded stem, as will be readily understood.

In order that any water which runs down the shank 13 may be delivered to the gutter and not flow along the upper face of the clamp-section *b*, I form such clamp-section *b* with concave sections *e*, the edges of which are chamfered off, as shown at *f*, this formation insuring the delivery of the water to the gutter.

In Figs. 4 and 5 the clamp-sections are held together by a bolt 21, which passes through a slot *g*, formed in the extending end of the pointed shank 22, and in this case the incline of the gutter or eaves-trough would be secured by driving the pointed shank into the wall in position to impart the required incline.

Such a gutter and hanger as the one above

described is cheaply made, and withal is more durable than the gutters and hangers heretofore employed.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with a gutter or eaves-trough having inwardly-extending flanges, of a sectional clamp adapted to receive the flanges of the gutter or trough between its sections, substantially as described.

2. The combination, with a gutter or eaves-trough having inwardly-extending flanges, of a sectional clamp formed of the apertured sections *b c*, the section *b* being provided with the downwardly-extending projections *d*, the shank 13, provided with the threaded stem 12, and the nuts 16 and 17, substantially as described.

3. The combination, with a gutter or eaves-trough formed with inwardly-extending flanges, of a sectional clamp, a means for adjusting the clamp-sections, and a clamp-supporting shank, substantially as described.

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Witnesses:
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