No. 664,637. Patented Dec. 25, 1900.

W. HEIB.

GUTTER HANGER.

(Application filed Apr. 26, 1900.)

(No Model.)

Fig. 7.

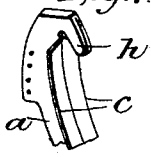


Fig. 3.

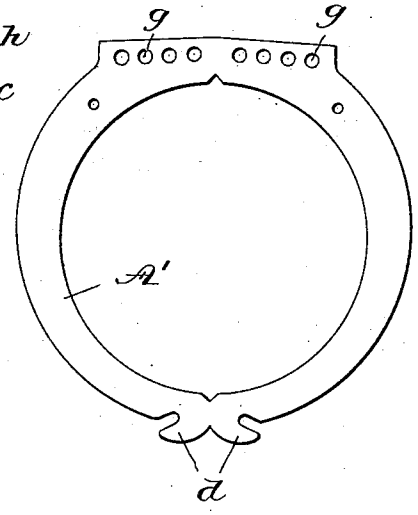


Fig. 1.

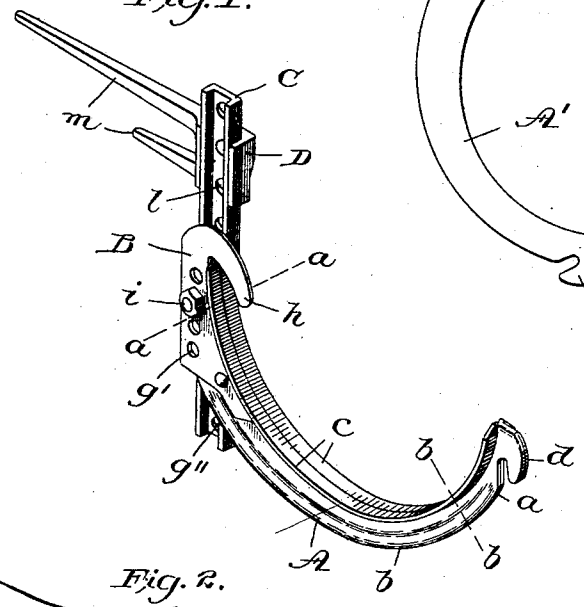


Fig. 5.

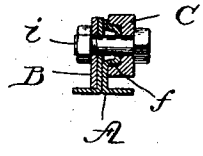


Fig. 2.

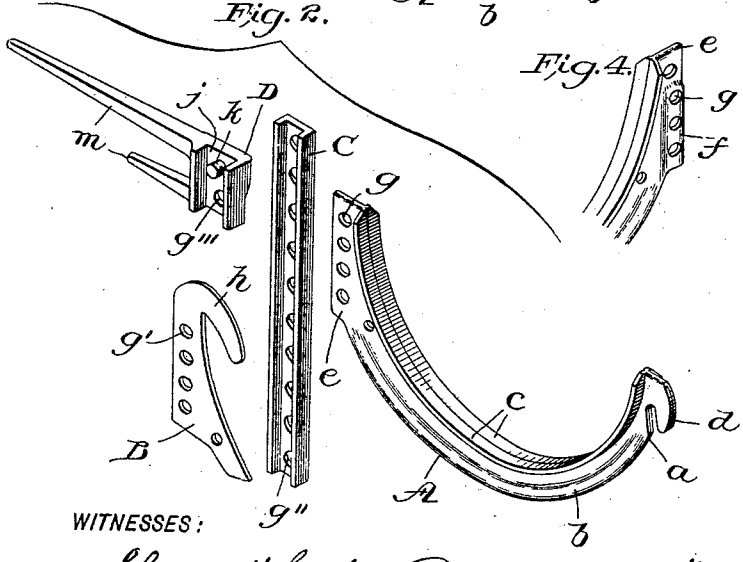
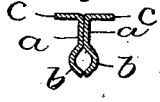


Fig. 4.

Fig. 6.



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UNITED STATES PATENT OFFICE.

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GUTTER-HANGER.

SPECIFICATION forming part of Letters Patent No. 664,637, dated December 25, 1900.

Application filed April 26, 1900. Serial No. 14,500. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HEIB, residing at Philadelphia, in the county of Philadelphia, State of Pennsylvania, have invented certain Improvements in Gutter-Hangers, of which the following is a specification.

This invention relates to adjustable gutter-hangers.

It comprises as separable features a circle, a channel-bar adjustable with relation to the circle, and a fastener adjustable with relation to the channel-bar, all as hereinafter more fully specified.

In the accompanying drawings, Figure 1 is a perspective view of my invention, showing the parts in their assembled relation. Fig. 2 is a perspective view thereof, showing the parts in disunited relation. Fig. 3 is a view of the blank stamped from sheet metal from which the circle is formed. Fig. 4 is a perspective view of the heel of the circle on the opposite side from that shown in Fig. 2. Fig. 5 is a transverse sectional view taken on the line *a a* of Fig. 1. Fig. 6 is a transverse sectional view taken on the line *b b* of Fig. 1. Fig. 7 is a perspective view of a modified form of circle-heel having a catch integral therewith.

As illustrated in the drawings, the hanger is made up from the circle A, formed from the blank A′, the lug B, riveted or otherwise secured to the circle, the channel-bar C, secured in adjustable relation to the circle, and the fastener D, secured in adjustable relation to the channel-bar.

The circle A is pressed into shape from the closed ring or continuous piece of sheet metal A′. It comprises as parts of an integral body the juxtaposed web members *a*, each having a bead *b* formed therein, the flanges *c* turned at right angles to the web members with which they are respectively connected, the catch *d*, formed in the web at the outer end of the circle, and the heel *e*, formed from the web at the inner end of the circle and having the rib *f* formed from one of the web members, and the perforations *g* providing openings through the heel.

A lug B, having the perforations *g′* to correspond with the perforations *g*, and the catch *h* for holding the gutter, is attached to the heel, serving to stiffen the same; but this lug may be omitted and a catch *h′* may be formed at the heel integral with the circle, as illustrated in Fig. 7.

The channel-bar C, having the perforations *g″* to correspond with the perforations through the heel of the circle, receives the rib *f*, which, with the bolt *i* passing therethrough, forms a firm adjustable connection between the circle and the supporting channel-bar.

The fastener D, having the seat *j* for receiving and holding the channel-bar C, is provided with a stud *k*, which may be passed through any of the apertures *g″* in the channel-bar and riveted thereto. A perforation *g‴* through the fastener D also serves to hold it to the channel-bar, as by passing a bolt or rivet through at the point *l*. The prongs *m* of the fastener D to be driven into the wall or other support may be arranged at any desired angle with the seat *j* and the channel-bar seated therein.

It will be understood that in some instances the channel-bar, whether straight or shaped to conform with the bearing, as the roof which supports the hanger, may be directly connected to said bearing without the use of the fastener and that changes in the details of construction may be made without departing from the spirit of my invention.

Having described my invention, I claim—

1. A gutter-hanger circle comprising a pair of integrally-formed juxtaposed web members and a pair of flanges substantially at right angles thereto.

2. A gutter-hanger circle comprising a pair of juxtaposed web members each having a bead formed therein, a flange integral with each of said web members and substantially at right angles thereto, and a hook formed from said web member, substantially as specified.

3. A gutter-hanger circle comprising a pair of juxtaposed web members each having a bead formed therein, a flange integral with each of said web members, and a heel formed from said web members, said parts forming an integral body, substantially as specified.

4. A gutter-hanger circle comprising a pair of juxtaposed web members, a flange integral with each of said web members, a perforated heel having a rib formed from said web mem-

bers, and a perforated channel-bar connected with said rib, substantially as specified.

5. A gutter-hanger circle comprising a pair of juxtaposed web members, a flange integral with each of said web members, a perforated heel having a rib formed from said web members, and a lug having a catch connected with said heel, substantially as specified.

6. In a gutter-hanger, a fastener having means for attaching it to a building and comprising a recessed seat having a stud therein integrally formed therewith, in combination with a perforated bar adapted to fit in said seat, and be engaged by said stud, substantially as specified.

7. In a gutter-hanger, a circle having a perforated heel with a rib thereon, in combination with a perforated channel-bar adapted to engage said rib and be secured to said circle, and a fastener having a recessed seat with a stud therein integrally formed therewith adapted to engage and be secured to said channel-bar, substantially as specified.

In testimony whereof I have hereunto set my hand, in the presence of the subscribing witnesses, this 17th day of April, 1900.

WILLIAM HEIB.

Witnesses:
C. N. BUTLER,
JOHN THIEL.