No. 672,701. Patented Apr. 23, 1901.

M. J. DANIEL.

GUTTER HANGER AND SCREEN RETAINER.

(Application filed July 3, 1900.)

(No Model.)

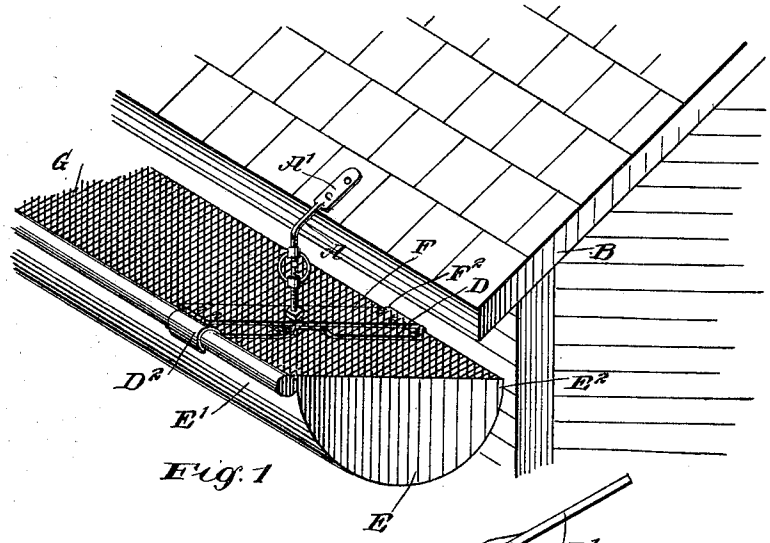


Fig. 1

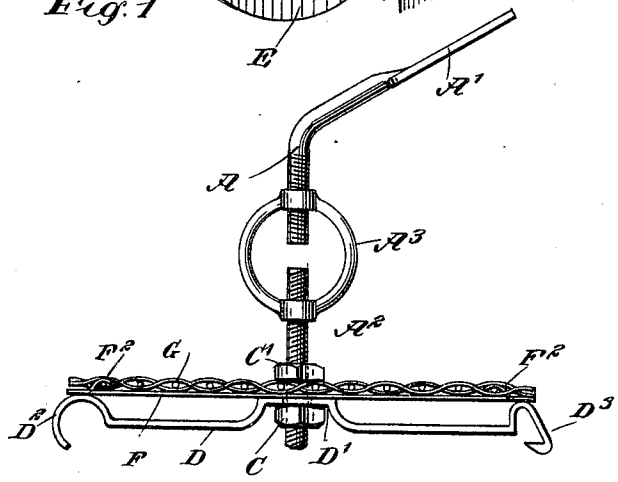


Fig. 2

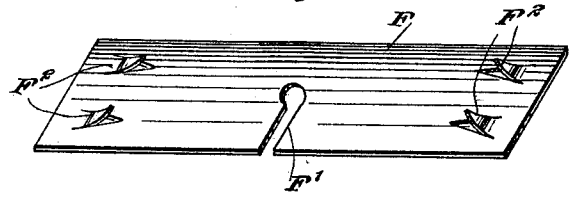


Fig. 3

WITNESSES:

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GUTTER-HANGER AND SCREEN-RETAINER.

SPECIFICATION forming part of Letters Patent No. 672,701, dated April 23, 1901.

Application filed July 3, 1900. Serial No. 22,424. (No model.)

To all whom it may concern:

Be it known that I, MONROE JESSIE DANIEL, a citizen of the United States, and a resident of Crowley, in the parish of Acadia and State of Louisiana, have invented a new and Improved Gutter-Hanger and Screen-Retainer, of which the following is a full, clear, and exact description.

The invention relates to eaves troughs or gutters having screen coverings; and its object is to provide a new and improved hanger and screen-retainer arranged to securely support the gutter or trough from a building, to hold the screen in position on the gutter, and to allow of conveniently adjusting the gutter to the desired pitch after its attachment to a building.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement as applied. Fig. 2 is an enlarged end view of the improvement, and Fig. 3 is an enlarged perspective view of the screen-retaining plate.

The improved gutter-hanger consists, essentially, of an arm A, having an angular upper end A′, somewhat flattened and apertured to permit of nailing this end to a building B, at the edge or other part thereof. The shank A^2 of the arm A is provided with a turnbuckle A^3 for lengthening or shortening the shank and to permit of adjusting the gutter to the desired pitch, as hereinafter more fully described. The lower threaded end of the shank A^2 carries nuts C C′, of which the nut C forms a support for the raised middle portion D′ of the cross-bar D, having retaining ends D^2 D^3, of which the end D^2 is adapted to engage the outer rolled edge E′ of the trough E, and the other end D^3 is adapted to engage the plain inner edge E^2 of the trough to securely support the latter on the hanger. The ends D^2 D^3 have their top faces in a horizontal plane with the top of the raised portion D′, so as to form a seat for a screen-retaining plate F, adapted to support a screen G, extending over the gutter from one edge E′ to the other edge E^2 to prevent the gutter from becoming clogged. The retaining-plate F is formed at its middle with a slot F′ for conveniently slipping the retaining-plate upon the lower member of the shank A^2, and said retaining-plate is provided near its ends with inwardly-extending lugs F^2, adapted to engage the edges of the screen G to hold the latter against movement. The lower member of the shank of the arm A also extends through one of the meshes of the screen G, and the latter is engaged on top by the nut C′, so that the screen G, the retaining-plate F, and the cross-bar D are securely clamped together by and between the nuts C C′.

Now it is evident that when the several parts are assembled and the end A′ of the arm A of the gutter-hanger is secured to the building B then the gutter or trough E is properly supported, and in order to give the desired pitch to the gutter the operator can then adjust the turnbuckle A^3 so as to raise or lower either end of the gutter to obtain the desired result and to insure a proper throw of the water to the outlet-spout.

The device is very simple and durable in construction, is composed of but few parts, which can be readily assembled, and the screen G is not liable to shift, as it is securely held in position by the retaining-plate and the nut C′ on the shank of the arm A.

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

1. A gutter-hanger and screen-retainer, comprising an arm, a cross-bar having means at both ends for engaging and supporting the gutter and having a rise at the middle to form with said ends a seat, and a screen-retaining plate seated on said seat, for receiving and holding the screen, as set forth.

2. A gutter-hanger and screen-retainer, comprising a supporting-arm having a threaded end and nuts thereon, a cross-bar on said threaded end, a screen-retaining plate seated on said cross-bar and supporting the screen, the screen, the plate and the cross-bar being clamped between the nuts on said arm, as set forth.

3. A gutter-hanger and screen-retainer, comprising a supporting-arm having a threaded end and nuts thereon, a cross-bar on said threaded end, a screen-retaining plate seated on said cross-bar and supporting the screen, the screen, the plate and the cross-bar being clamped between the nuts on said arm, and a turnbuckle on the shank of said arm, for lengthening or shortening the shank, as set forth.

4. A gutter-screen retainer having a screen-retaining plate adapted to support the screen and having inwardly-extending lugs for engaging said screen and holding the latter against movement, as set forth.

5. The combination of an arm capable of attachment to a building, a cross-bar sustained by the arm and having its ends engaged with the gutter to support the same, a screen-retaining plate carried by the arm above the cross-bar, and means for holding the screen engaged with the screen-retaining plate.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MONROE JESSIE DANIEL.

Witnesses:

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