No. 873,578. PATENTED DEC. 10, 1907.

C. H. MOLYNEUX.

EAVES TROUGH SUPPORT.

APPLICATION FILED JAN. 19, 1907.

Fig. 1.

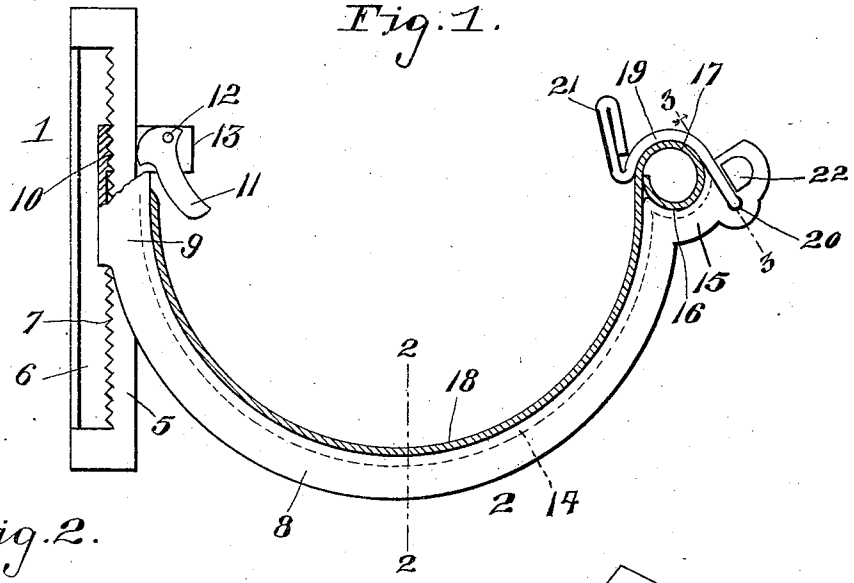


Fig. 2.

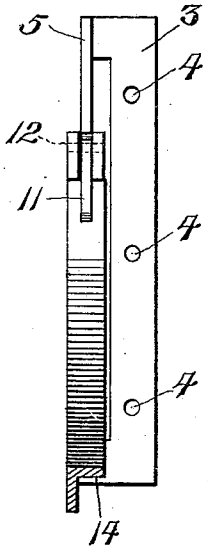


Fig. 4.

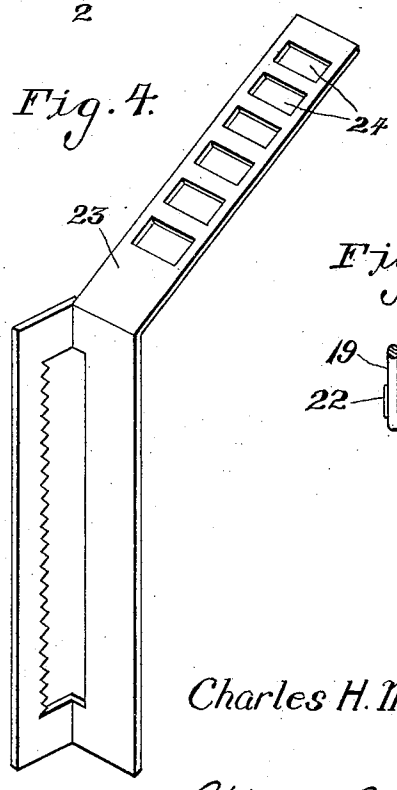
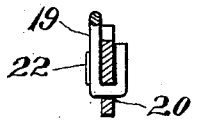


Fig. 3.



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EAVES-TROUGH SUPPORT.

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Application filed January 19, 1907. Serial No. 353,109.

To all whom it may concern:

Be it known that I, CHARLES H. MOLYNEUX, a citizen of the United States of America, residing at Rochester, in the county of Monroe and State of New York, have invented new and useful Improvements in Eaves-Trough Supports, of which the following is a specification.

This invention relates to eaves trough supports, and the object of the invention is to provide a simple, reliable and easily adjusted support for eaves troughs by means of which the trough may be securely clamped in position and readily adjusted as to its pitch or inclination. The eaves trough support embodies a hanger member and a supporting bracket which is adjustable up and down on the hanger either before or after the trough is connected therewith and the said adjustment is easily and quickly effected without the aid of tools of any kind and without the employment of screws, nuts, or soldered fastenings.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as hereinafter fully described, illustrated and claimed.

In the accompanying drawings, Figure 1 is a sectional, side elevation of one of the supports showing the gutter in section applied thereto, and held thereby. Fig. 2 is a sectional front elevation of the parts of the support. Fig. 3 is a detail cross section on the line 3—3 of Fig. 1. Fig. 4 is an enlarged perspective view of a modified form of hanger adapted for shingled roofs.

The eaves' trough support contemplated in this invention is constructed in the main of sheet metal stamped into the form shown in the drawings, and hereinafter particularly described. The support comprises a hanger member 1 and a supporting bracket 2, the latter being adjustably connected with the hanger member and capable of being moved up and down thereon and held at any desired point of elevation to give the required pitch or inclination to the gutter or trough. The hanger member is struck up from a piece of sheet metal and is made to comprise a base 3 adapted to be secured to a building, said base being provided with holes 4 to receive suitable fasteners whereby the hanger member is secured to the building. The hanger member also comprises a forwardly extending flange 5 which is cut away, as shown at 6, to form a guide up and down which the supporting bracket may be adjusted. The inner edge of the flange 5 is toothed or serrated, as shown at 7, to form a vertically disposed rack bar, the purpose of which will hereafter appear.

The supporting bracket embodies a substantially semi-circular body 8, the inner end of which is bent to form a three-sided runner 9 which embraces the rack bar 5 on opposite sides, and the inner face of said runner is toothed or serrated, as shown at 10, to engage the teeth 7 of the rack bar, as clearly shown in Fig. 1.

Pivotally connected with the runner at the opposite side of the rack bar from the teeth 10 is a cam lever 11 which is fulcrumed at 12 on an extension 13 of the runner, the head of said cam lever coöperating with the outer edge of the rack bar to force the teeth 10 into engagement with the teeth 7 and fasten the parts when so positioned.

The semi-circular body 8 is provided along its upper inner edge with a flange 14 forming an extended seat for the trough, which flange also serves to stiffen the supporting bracket. The outer end of the supporting bracket is extended outward, as shown at 15, and provided with a concave seat 16 for the outer roll or bead 17 of the trough or gutter shown at 18. This outer roll or bead is engaged and held by a clasp 19 preferably formed of a piece of spring wire, one end of which is bent and extended through an opening 20 in the outer end of the bracket which arrangement secures the clasp to the bracket and also forms a pivot on which the clasp turns. The body of the clasp is bent to extend over and closely embrace the roll or bead 17 of the trough, while the extremity of the clasp is bent upward to form a finger piece 21 by means of which the clasp may be manipulated to engage and release the trough. This finger piece may be sharpened at one or both of its side edges to form a cutter for breaking up snow or ice in its movement along the gutter.

In order to hold the clasp 19 in place, the extension 15 of the supporting bracket is provided with a knob or projection 22 which, when the clasp is in position, lies behind said clasp forming a stop shoulder for holding the clasp in its operative position. The outer face of said knob or projection is preferably beveled to allow the clasp to ride easily over

the same as the clasp is moved into its engaging position.

For shingled roofs, the hanger may be constructed as shown in Fig. 4, that is to say, the hanger may be provided with an anchor tongue 23 which forms an extension of the hanger and is adapted to be inserted between the shingles and nailed or otherwise fastened thereto by driving the fasteners through openings 24 in said tongue. In all other respects, the hanger shown in Fig. 4 corresponds with the hanger shown in the preceding views hereinabove described.

The eaves trough support hereinabove described is economical in construction, may be fastened in position quickly, and renders it a comparatively easy matter to adjust the bracket member up and down to suit the desired inclination or pitch of the trough, and this adjustment may be made either before or after placing the gutter in position.

Having thus described the invention, what I claim is:

1. In an eaves trough support, the combination of a hanger comprising a slotted body bent longitudinally on the line of the slot to form a back plate and a forwardly-extending member which latter is provided with serrations along its inner edge, and means for securing the back plate to a support; a bracket for an eaves trough formed with a runner engaging around the said member and prevented from moving off the same by the end walls of the slot of the hanger, serrations on the runner adapted to engage those of the member, and a cam pivoted on and movable with the runner and disposed to engage the front edge of the member to lock the serrations together.

2. An eaves trough support comprising a hanger composed of sheet metal formed into a base and a right-angularly bent vertically disposed rack bar, an eaves' trough supporting bracket having a runner with teeth to engage the rack bar, and a cam lever carried by the supporting bracket and adapted to force the teeth of the runner into engagement with the teeth of the rack bar, whereby the supporting bracket is rendered adjustable up and down on the hanger and capable of being fastened at any elevation.

3. An eaves trough support comprising a hanger, a supporting bracket adjustable up and down thereon and provided with a stop at its outer end, means for holding said bracket at any elevation, and a clasp for holding the outer edge of the trough, said clasp being pivotally connected with the bracket and having a spring portion which extends over the edge of the trough and engages under the stop and terminates in a finger piece.

4. An eaves trough support comprising a hanger, a supporting bracket adjustable up and down thereon, a clasp pivotally connected with said bracket and having a spring portion which embraces the outer edge of the trough, and a stop shoulder over which the clasp snaps and by means of which it is held in clamping position.

5. An eaves trough support comprising a hanger, a supporting bracket adjustable up and down thereon, a spring clasp having a jointed connection with said bracket and embracing the outer edge of the trough, an extension on the end of said clasp sharpened to form a cutter, and means for holding said clasp in clamping position.

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

CHARLES H. MOLYNEUX.

Witnesses:

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