

G. MATHES.
GUTTER.

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1,013,194.

Patented Jan. 2, 1912.

Fig. 1.

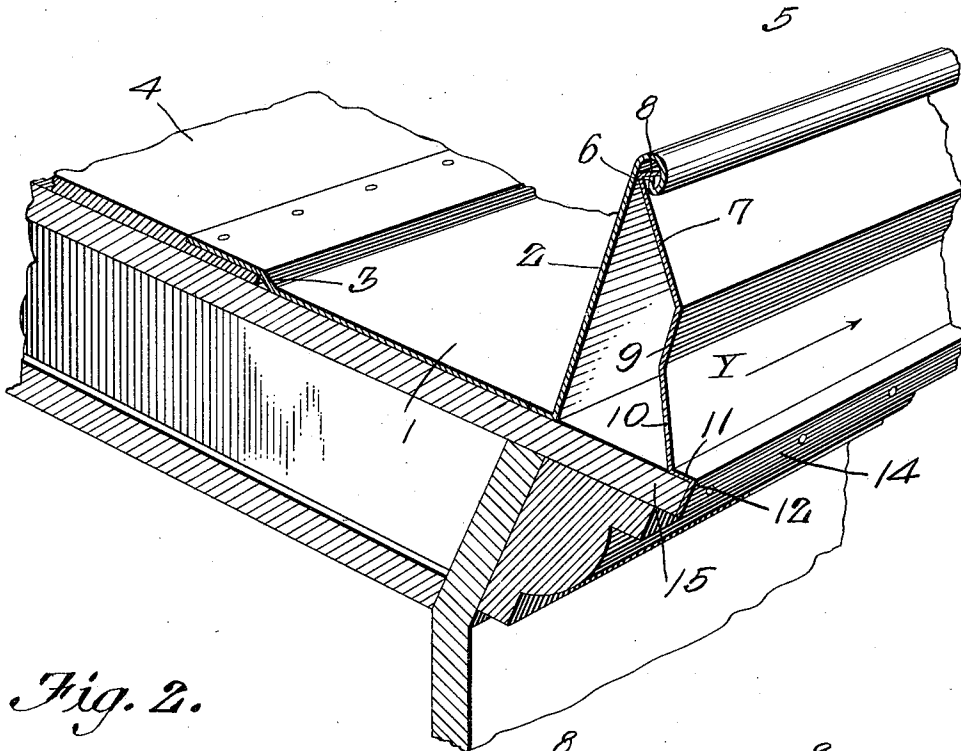


Fig. 2.

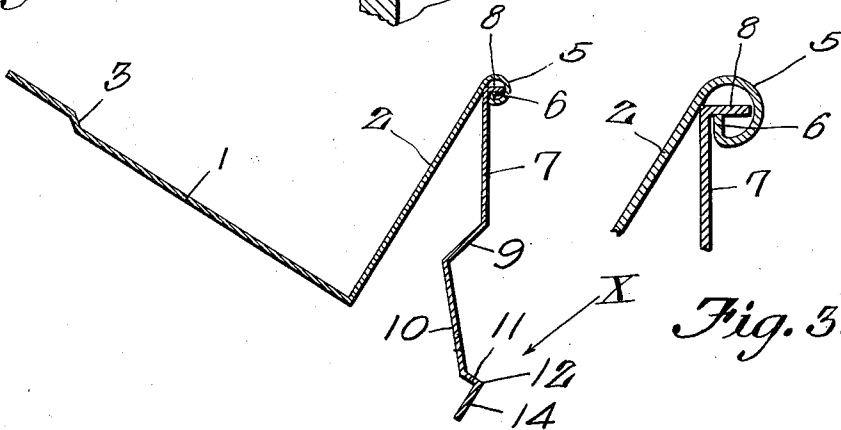


Fig. 3.

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UNITED STATES PATENT OFFICE.

GEORGE MATHES, OF BEDFORD, INDIANA.

GUTTER.

1,013,194.

Specification of Letters Patent.

Patented Jan. 2, 1912.

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To all whom it may concern:

Be it known that I, GEORGE MATHES, a citizen of the United States, residing at Bedford, in the county of Lawrence and State of Indiana, have invented a new and useful Gutter, of which the following is a specification.

The device forming the subject matter of this application, is a roof-gutter, of that general type which is disclosed in Patent #561,563.

One object of the present invention is to provide a gutter which will have a maximum fall in the direction of its length, and have a maximum depth, with a minimum expenditure of material.

A further object of the invention is to provide a gutter, the constituent parts of which may readily be assembled, without telescoping them, endwise.

A further object of the invention is to provide a gutter, one of the elements of which is so constructed that it will serve effectively, as a brace for the other.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings,—Figure 1 is a sectional perspective, showing the gutter applied to a portion of a roof; Fig. 2 is a transverse section of the gutter; and Fig. 3 is a sectional detail enlarged from Fig. 2.

The gutter herein disclosed consists of an apron 1, provided with an upstanding flange 2, disposed substantially at right angles to the plane of the apron 1, the apron 1 being equipped, adjacent its rear edge, with a shoulder 3, whereby the roofing 4 may be assembled with the rear edge of the apron 1. The flange 2 is provided, at its upper edge, with a rounded bead 5, terminating in an upstanding lip 6.

The invention further includes an outer member, comprising a straight portion 7, having a rectangularly disposed flange 8, adapted to be received within the bead 5, and to rest upon the lip 6 of the bead. Below the portion 7, the outer member is carried rearwardly, as at 9, at an obtuse angle

to the portion 7, toward the flange 2. Below the portion 9, the outer member is carried downwardly and outwardly, away from the flange 2, and at an obtuse angle to the portion 9. The lower edge of the portion 10 is flexed outwardly as at 11, and thence bent rectangularly as at 12, to form a depending flange 14. The apron 1 rests upon the roof board 15, and the outer edge of the roof-board fits in the angle at 12, the flange 14 covering the outer edge of the roof-board 15.

The device disclosed in the patent above referred to, is ineffective for the following reasons. That portion of the patented device which corresponds to the applicant's apron 1 is too long, while that portion of the patented device which corresponds to the applicant's flange 2, is too short. The results of these deficiencies are that the gutter is too shallow, and that, owing to the great length of the apron, a sufficient fall in the direction of the arrow Y in Fig. 1 of this application, cannot be obtained. When the patented article is used therefore, a large number of down-spouts must be provided, at frequent intervals, because the gutter cannot have sufficient fall to extend in an unbroken length for any considerable distance. This difficulty I remedy, by shortening the portion 1 of my device, and by lengthening the portion 2. Thus, I am enabled to carry my gutter a greater distance, in a continuous unbroken length, and to secure a greater fall in the direction of the arrow Y, and, at the same time, I secure a deeper gutter. These results, it is to be understood, are secured by fashioning the gutter differently, but without changing the amount of material therein, the gutter herein disclosed being fashioned from the same dimensions of material, as those required for the manufacture of the patented article above referred to.

Referring to the gutter herein disclosed, it is to be noted that it is not necessary to telescope the flange 8, endwise, into the bead 5. The construction is such that the flange 8 may be inserted transversely within the bead 5, whereupon the outer member may be swung downwardly, in the direction of the arrow X, into the position shown in Fig. 2. The construction from which this operation results, greatly lessens the difficulty in assembling the constituent portions of the gutter. Moreover, owing to the fact that the part 10 of the outer member defines a less acute angle with respect to the flange

2, than does the portion 7 of the outer member, the gutter is effectively braced.

It is to be noted that the construction of the device is such that the outer or auxiliary member may be tilted with respect to the flange 2, to assume different angles, this construction resulting from the formation of the bead 5 and of the flange 8 of the auxiliary member.

10 Having thus described the invention, what is claimed is:—

A device of the class described comprising an apron provided with an angularly disposed flange having at its upper edge, a circular, open bead, terminating in an upstanding lip unencumbered at its free edge; and an auxiliary member having a rectangularly disposed flange resting upon the upper edge

of the lip and extended across the bead, to reinforce the same in its interior, said flange being insertible, transversely, into the bead, and having free pivotal movement upon the upper edge of the lip, whereby the auxiliary member may be assembled with the apron after the apron has been secured to the roof board, the auxiliary member being movable into engagement with the roof board, without altering the contour of the bead.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GEORGE MATHES.

Witnesses:

W. A. RAMSAY,
FRANK BAILEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."