W. H. ABBOTT.

GUTTER MITER.

APPLICATION FILED MAR. 14, 1914.

1,096,212.

Patented May 12, 1914.

Fig. 1

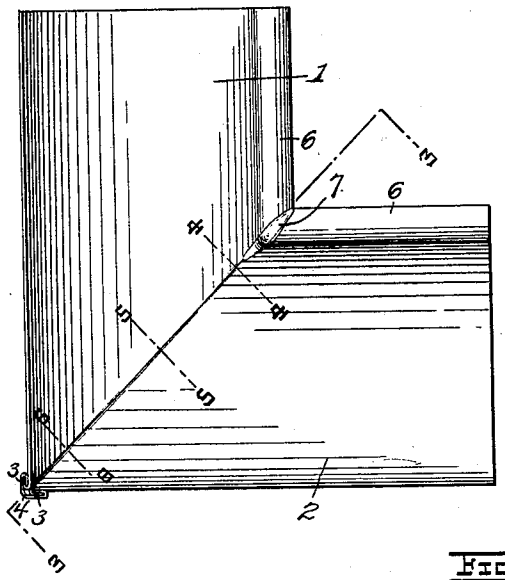


Fig. 2

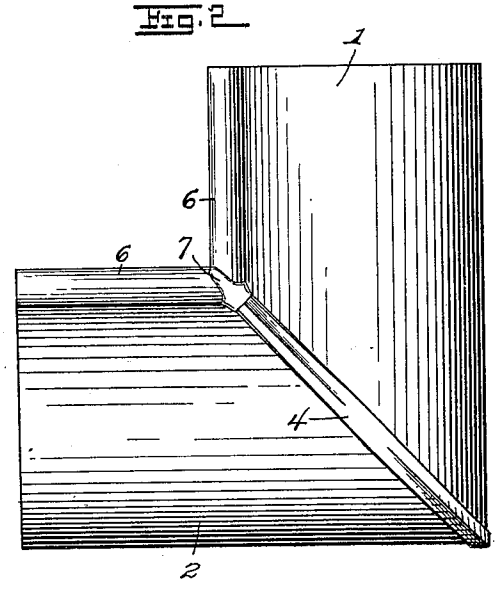


Fig. 3

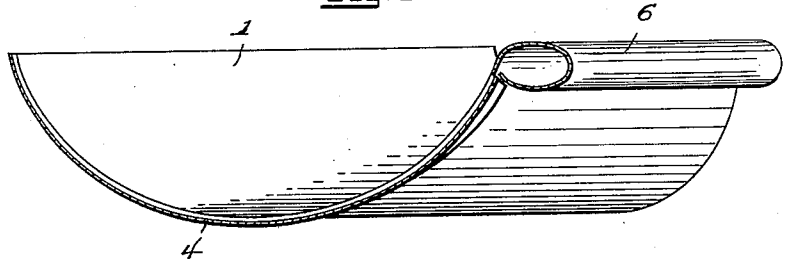


Fig. 4

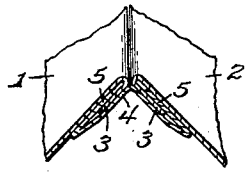


Fig. 5

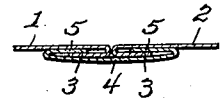
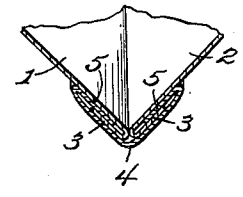


Fig. 6



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WILLIAM H. ABBOTT, OF WHEELING, WEST VIRGINIA, ASSIGNOR TO WHEELING CORRUGATING COMPANY, OF WHEELING, WEST VIRGINIA, A CORPORATION OF WEST VIRGINIA.

GUTTER-MITER.

1,096,212. Specification of Letters Patent. Patented May 12, 1914.

Application filed March 14, 1914. Serial No. 824,664.

To all whom it may concern:

Be it known that I, WILLIAM H. ABBOTT, a citizen of the United States of America, and resident of Wheeling, county of Ohio, and State of West Virginia, have invented certain new and useful Improvements in Gutter-Miters, of which the following is a specification.

This invention relates broadly to gutter miters, and specifically to improvements in the joints of eaves trough or gutter miters.

The primary object of the invention is to provide a gutter miter having an improved joint which renders it as strong and durable as the main body of the gutter.

A further object is to provide a miter of the character mentioned which presents on its interior a smooth surface at the seam or joint.

With these and other objects in view, the invention resides in the features of construction which will hereinafter be fully described, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a top plan view of the invention; Fig. 2 is a bottom plan view of the same; Fig. 3 is a section on line 3—3, Fig. 1; and Figs. 4, 5 and 6 are enlarged sections taken, respectively, on lines 4—4, 5—5 and 6—6, Fig. 1.

Referring to said drawings, in which like designating characters distinguish like parts throughout the several views—1 and 2 indicate two miter sections of gutter or eaves trough, each of which, after being cut to the proper angle, has its edge turned back to form an underlying hook or flange 3, said flanges being disposed in opposite directions when said two sections are fitted, one against the other, in abutting relation. A curved securing strip 4 having inwardly turned flanges 5 is mounted with its said flanges in interlocking relation to the underlying flanges 3. Said strip is substantially flat at a point midway between its ends, as shown in Fig. 5. From said midway point inward toward the bead 6, said strip is concave in cross section, as shown in Fig. 4, the concavity being gradually increased toward its inner end; and from said midway point outward to its outer end said strip is convex in cross section, the convexity increasing as said outer end is approached. This formation of the strip permits the latter to lie close against the flanges 3. After the strip has been applied, the miter is placed under a press, or between suitable dies, and the strip and flanges forced down flat against the bodies of the sections so as to tightly clamp the parts in fixed relation wherein the contour or regular curvature of said sections is not disturbed. Solder is preferably applied to the meeting ends of the beads 6, as shown at 7 in Figs. 1 and 2, to afford rigidity at the inner angle of the miter.

In its finished form the interior surface of the miter is practically as smooth and regular at the seam or joint as elsewhere, due to the close clamping embrace of the parts with respect to each other.

What is claimed is—

1. A gutter miter comprising a pair of miter sections having their meeting edges turned back to form underlying flanges, and a metal strip having inturned flanges disposed in interlocking engagement with the flanges of said sections, said strip presenting a convex surface at its outer end and a concave surface at its inner end, the degree of convexity and that of concavity gradually diminishing from said ends to a point substantially midway between said ends.

2. A gutter miter comprising a pair of miter sections having their meeting edges turned back to form underlying flanges, and a metal strip curved to conform to the curvature of said meeting edges and having its lateral edges turned inwardly and disposed in interlocking relation to the flanges of said sections, said strip being substantially flat in cross section at a point substantially midway between its ends and having its opposite ends reversely curved, the degree of curvature being increased gradually from said midway point to said ends.

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

WILLIAM H. ABBOTT.

Witnesses:

W. B. MCADAM,

H. P. ROSE.

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