H. STRATER, Jr.

GUTTERS AND MOLDINGS.

No. 190,168. Patented May 1, 1877.

Fig. 1.

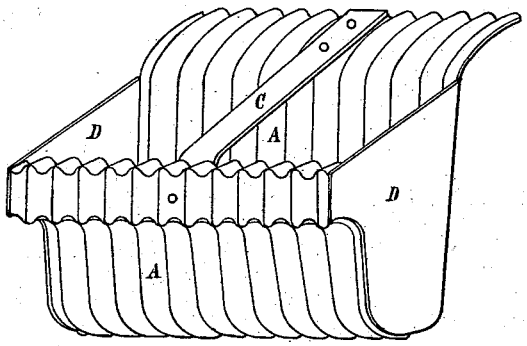
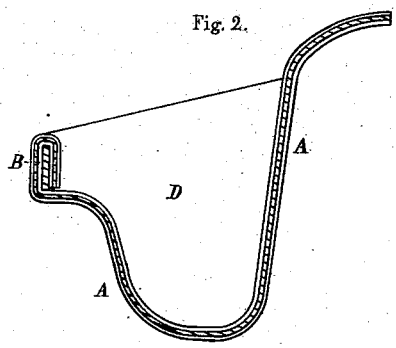


Fig. 2.



Witnesses;

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UNITED STATES PATENT OFFICE.

HERMAN STRATER, JR., OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN GUTTERS AND MOLDINGS.

Specification forming part of Letters Patent No. **190,168**, dated May 1, 1877; application filed January 30, 1875.

To all whom it may concern:

Be it known that I, HERMAN STRATER, JR., of the city of Boston, State of Massachusetts, have invented an Improvement in Combined Gutters and Moldings, of which the following is a specification:

My invention relates to the construction of those metallic gutters cross-sections of which shall severally show curves in more than one direction or one or more angular turns, its object being to so form them of corrugated sheet metal that the corrugations shall be transverse to them.

In the drawings a perspective view of a short gutter embodying my invention is shown in Figure 1, and a cross-section of same in Fig. 2.

The general forms of gutters are various, and they are differently supported. The one here shown is strengthened by the horizontal bar B and braced by the transverse stay C. The ends are shown closed by the plain metallic sheets D D. The sheet metal forming the body A of the cutter is corrugated, as shown and hereinbefore stated, making what may be styled a transversely-corrugated gutter.

It will be noticed that the same sheet of corrugated metal takes more than one curve to give shape to the body A, and that these curves are in different directions—that is, there are both concave and convex curves; also, that there are angular turns, as about the bar B. Other forms may present more curves and angular turns for the same sheet of metal, and such forms will particularly occur in moldings used simply as such.

The invention involved in my gutters and moldings will be readily understood, and I proceed to state some of the many advantages which occur in their manufacture and use, and special applications, showing the great utility of my invention. I can use much thinner, and, consequently, less costly, metal and retain the same self-supporting strength.

In all gutters and moldings of any great length the expansion and contraction become a serious matter, and special joints have heretofore been made to allow for this motion. These joints require great care to make and keep in order. The corrugation of those of my invention by yielding to this expansion and contraction obviates the need of said joints.

The corrugated gutters and moldings are less liable to be accidentally indented, and dents they may receive are less liable to spread over a great extent. Moreover, the surface being regularly broken by the corrugation, which, in itself, gives a better appearance, accidental irregularities do not become conspicuous as they do on plane surfaces.

Frequently gutters and moldings must be carried along horizontal curves, as about the curvature of swell-front buildings; and it is readily seen that those corrugated are especially adapted for this purpose, being easily bent, as required, without making extra joints or forming by a difficult and expensive process, as has been done with those heretofore used.

In some situations it may be desirable to have the gutters or moldings corrugated only part way across, and not the whole distance, as shown in the drawing. Such would embody my invention. They might also be corrugated diagonally, and not at right angles with their length, as shown; but this method, though it would involve my invention, is not considered a desirable one.

I claim as my invention—

A gutter constructed of corrugated sheet metal, the corrugations of which shall be transverse to it, and a cross-section of the gutter shall form an ogee or similar molding, as shown and specified.

HERMAN STRATER, JR.

Witnesses:

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