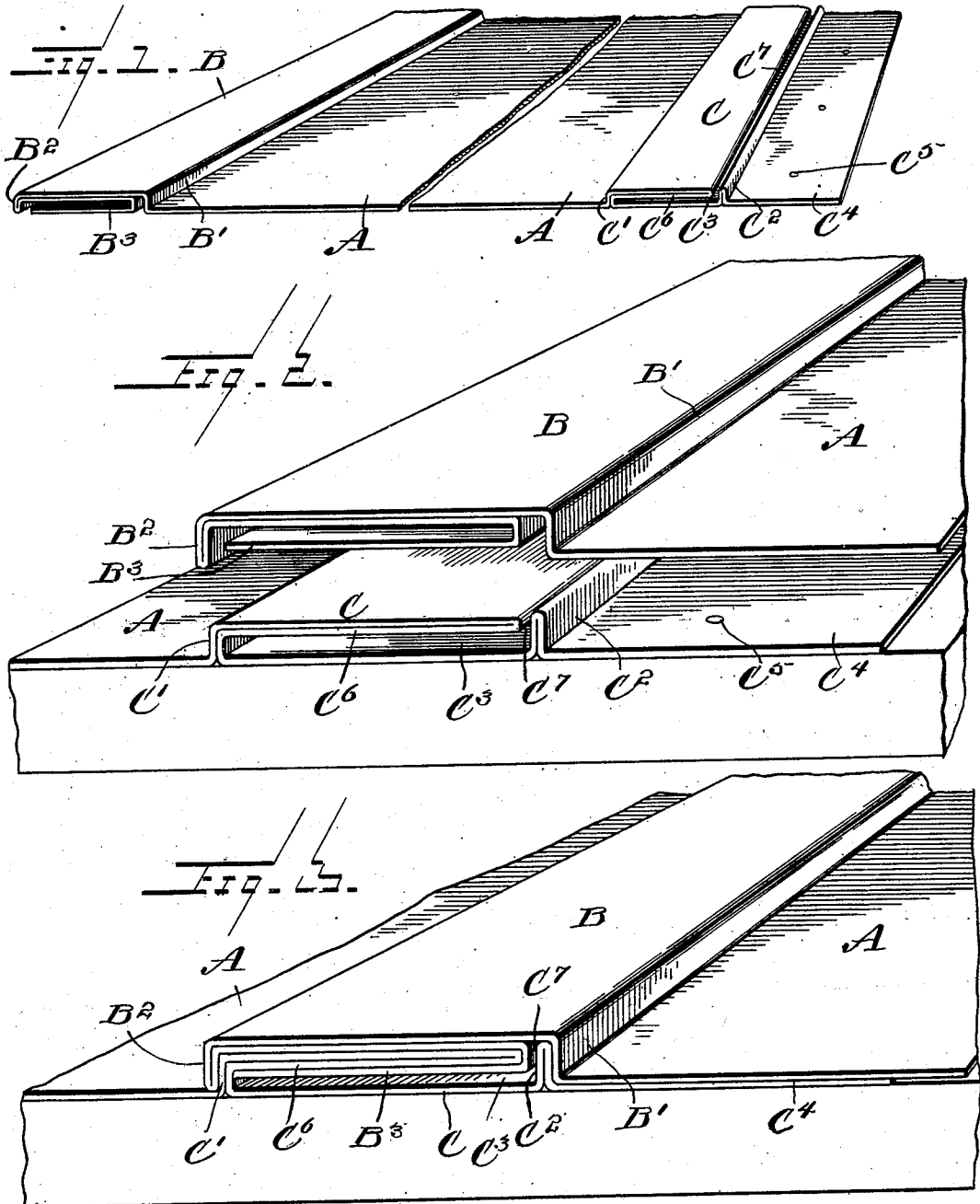


No. 762,939.

PATENTED JUNE 21, 1904.

F. J. PIOCH.
SEAM FOR METALLIC ROOFING.
APPLICATION FILED NOV. 14, 1903.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK J. PIOCH, OF PROVO CITY, UTAH.

SEAM FOR METALLIC ROOFING.

SPECIFICATION forming part of Letters Patent No. 762,939, dated June 21, 1904.

Application filed November 14, 1903. Serial No. 181,219. (No model.)

To all whom it may concern:

Be it known that I, FRANK J. PIOCH, a citizen of the United States, residing at Provo City, in the county of Utah, State of Utah, have invented certain new and useful Improvements in Seams for Metallic Roofing, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a seam for metallic roofing, and particularly to a structure embodying a gutter or trough having an interlocked cap cooperating with the gutter thereof.

The invention has for an object to provide a novel and improved construction of seam for metallic roofing-plates, comprising a gutter or trough having parallel ribs at its opposite sides and an intermediate flange extending laterally from one thereof cooperating with a cap adapted to entirely inclose the cooperating trough and having a flange to interlock with the laterally-extending flange of the trough or gutter.

Other and further objects and advantages of the invention will be hereinafter set forth, and the novel features thereof defined by the appended claims.

In the drawings, Figure 1 is a perspective of the plate, having at one edge a cap construction and at its opposite edge a gutter. Fig. 2 is an enlarged detail of the cooperating cap and gutter separated from each other, and Fig. 3 is a perspective of the parts assembled.

Like letters of reference refer to like parts in the several figures of the drawings.

The letter A designates a plate, preferably of metal, such as ordinarily used for roofing purposes, and of any desired configuration for use either as a shingle or roofing-plate. Upon one edge of the plate a cap B is formed and comprises an upwardly-bent portion B' at one side and a depressed portion B² at the opposite side, while from the latter portion an inwardly-overtaken interlocking flange B³ is provided and disposed parallel with the under face of the cap. At the opposite edge of the plate the cooperating part C may be formed and comprises parallel ribs C' and C², spaced from each other to form a gutter or trough

C³, while beyond the rib C³ the free end C⁴ of the plate is provided, by which it may be secured to the roofing-timber in any desired manner—for instance, by nails C⁵, as shown. Projecting laterally from the rib C' is a horizontally-disposed laterally-extending projecting flange C⁶, which covers the principal portion of the gutter, leaving an opening C⁷ at one side for the introduction of the interlocking flange B³ of the cap member.

In the operation of the invention the parts may be assembled by sliding the gutter and cap longitudinally upon each other or the interlocking flange may be engaged and the free end of the cap member bent downward to complete the joining, which forms a standing seam having a broad upper surface not liable to injury by rough usage nor by walking thereon, as the parallel ribs in connection with the cap form a bridge over the gutter. It will also be noted that the ribs and the protecting-flange from the inclosed gutter are formed by a double thickness of the material, thus lending strength against a vertical or lateral compression thereof. The gutter here provided is adapted to catch and convey water from the roof in the event of flooding, so as to percolate through the seams, while under ordinary conditions the gutter is completely closed by the cap and protected thereby against the entrance of water even in a severe or driving storm. A further important feature of the construction is the location of the interlocking flange upon the under face of the cap, whereby it is not liable to injury or bending out of proper shape, and therefore may be readily engaged with the protecting-flange of the gutter, so as to lock the parts securely against vertical separation, while the flanges of the gutter and the walls of the cap effectually prevent any lateral movement thereof. It will be noted that the connection of the locking-flanges forms a double-locked seam that is storm and water proof, while the bridging between the ribs effectually prevents injury to the seam, even under rough usage.

It will be obvious that changes may be made in the details of construction and configuration without departing from the spirit of the invention as defined by the appended claims.

Having described my invention and set forth its merits, what I claim, and desire to secure by Letters Patent, is—

1. In a roofing-seam, a gutter provided with
5 parallel ribs, a cap-plate extending over and completely inclosing both of said ribs, and means carried by the cap for connecting said cap to one of said ribs.
2. In a roofing-seam, a gutter provided with
10 parallel ribs, a cap-plate completely inclosing said ribs, a laterally-projecting flange extending from one of said ribs over said gutter, and an interlocking flange carried by the under face of said cap.
- 15 3. In a roofing-seam, a gutter provided with parallel ribs, a cap-plate completely inclosing said ribs, a laterally-projecting flange extending from one of said ribs over said gutter, and an interlocking flange upon the under

face of the cap comprising a reversely-bent 20 portion of the free end of the cap-plate adapted to embrace said projecting flange.

4. In a roofing-seam, a gutter formed from the body of a plate and comprising parallel ribs one of which has a protecting-flange pro- 25 jected laterally therefrom toward the opposite rib, a cap-plate formed to embrace both of said ribs and provided upon its under face with a reversely-bent interlocking flange open at one side to permit the entrance therein of the 30 protecting-flange.

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

FRANK J. PIOCH.

Witnesses:

GEO. H. HEINDRELMAN,
JOHN MARWECK.