

No. 625,730.

Patented May 23, 1899.

F. G. CALDWELL.

MEANS FOR PACKING METALLIC ROOFING SHEETS.

(Application filed Mar. 20, 1899.)

(No Model.)

Fig. 1.

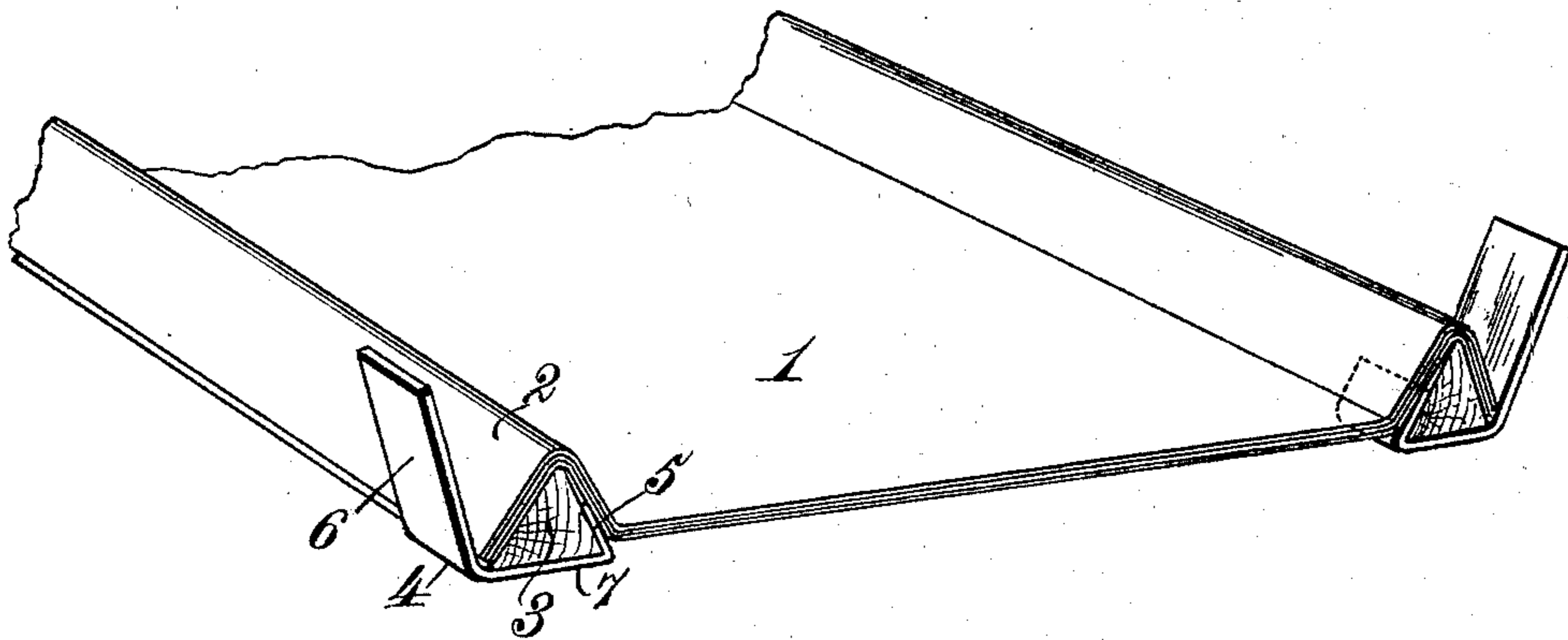


Fig. 2.

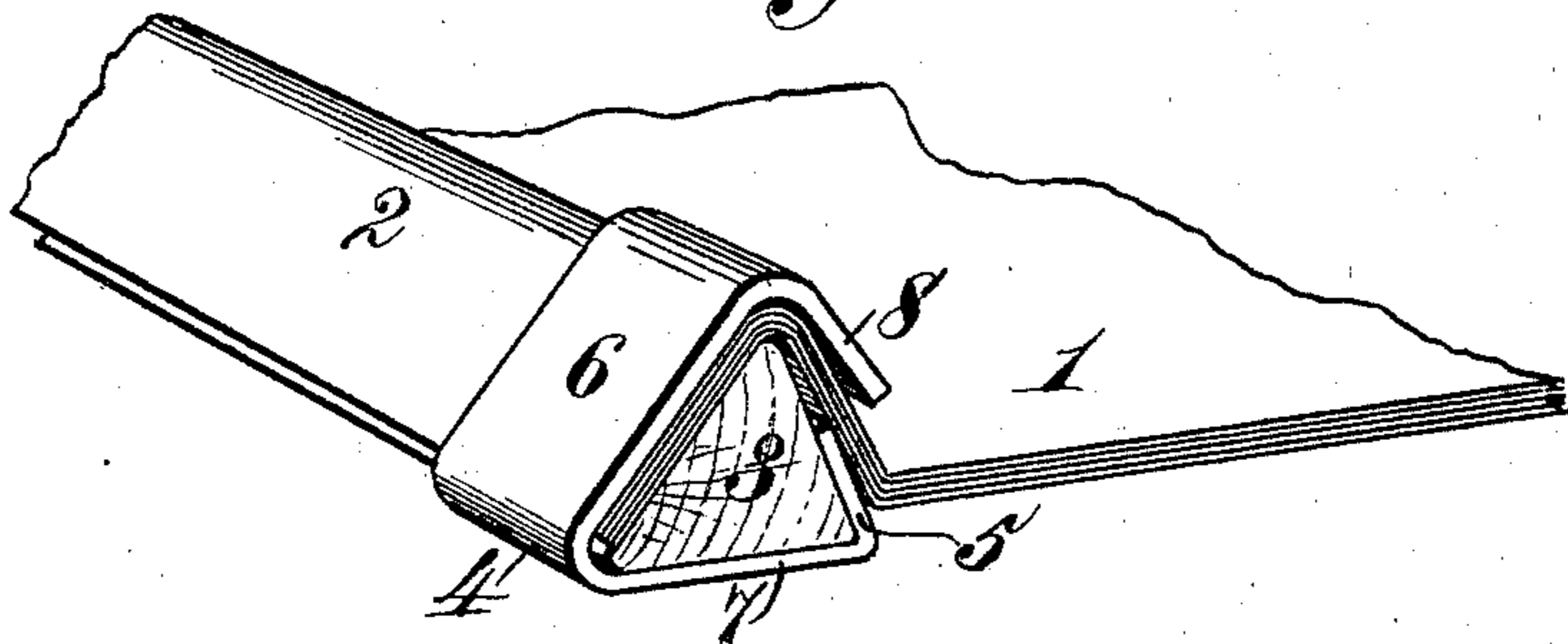
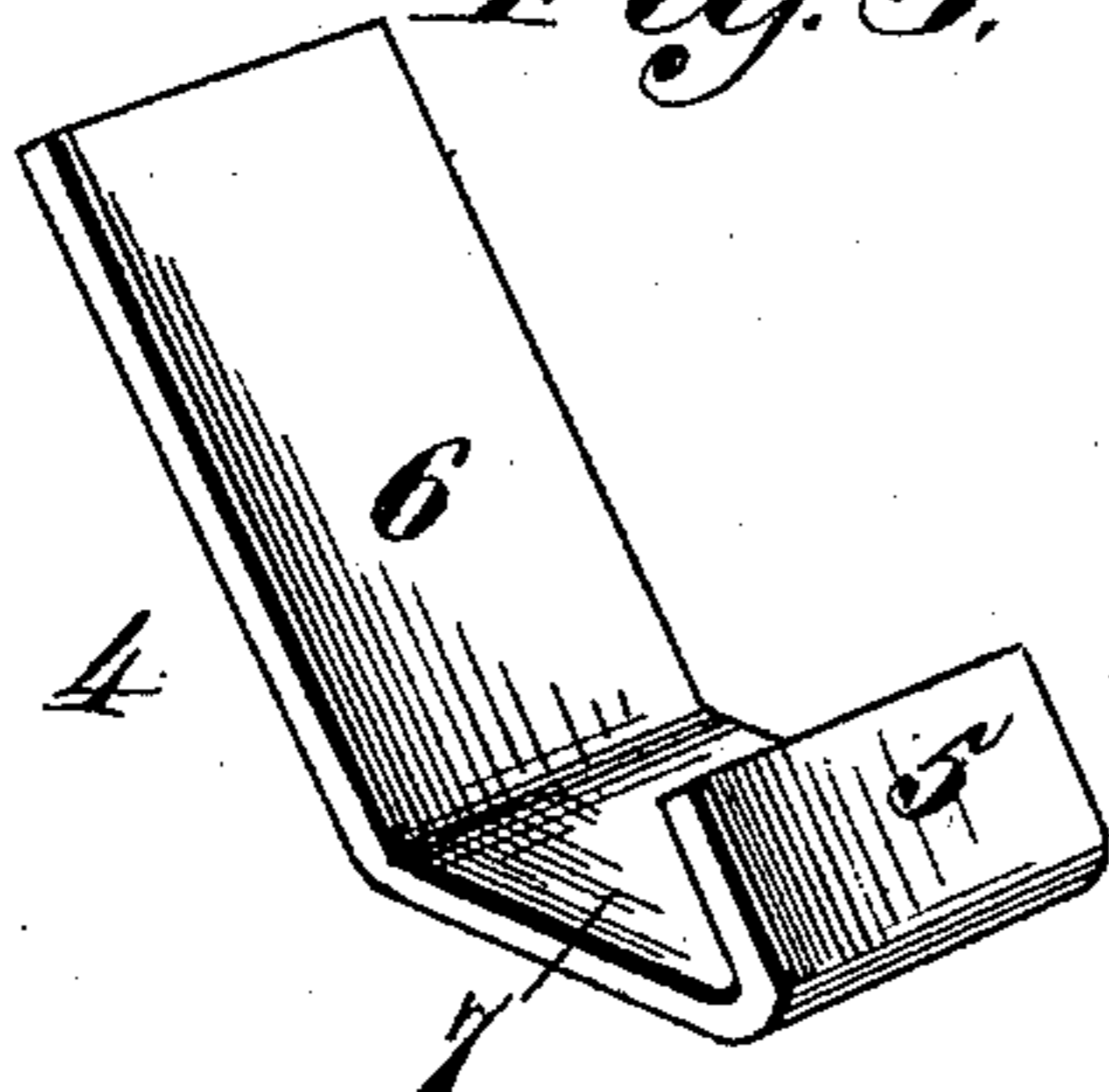


Fig. 3.



Witnesses.
Robert Everett,
J. B. Kump

Inventor:
Frank G. Caldwell,
By *James L. Norris*
Atty.

UNITED STATES PATENT OFFICE.

FRANK G. CALDWELL, OF WHEELING, WEST VIRGINIA.

MEANS FOR PACKING METALLIC ROOFING-SHEETS.

SPECIFICATION forming part of Letters Patent No. 625,730, dated May 23, 1899.

Application filed March 20, 1899. Serial No. 709,814. (No model.)

To all whom it may concern:

Be it known that I, FRANK G. CALDWELL, a citizen of the United States, residing at Wheeling, in the county of Ohio and State of West Virginia, have invented new and useful Improvements in Means for Packing Metallic Roofing-Sheets, of which the following is a specification.

The object of my invention is to provide means whereby roofing-plates and the like having V-shaped crimps along the outer edges thereof may be securely packed together for purposes of storage or shipment; and the same consists of a block triangular in cross-section inserted in the concave portion of the crimp and a sheet-metal securing-clip having one end inserted in the concave portion of the crimp between the body of the sheet and said block, bent around the crimped portion of the sheet, and having its other end extending downward along the outer wall of the crimp adjacent to the body of the sheet.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a view illustrating a series of sheets or strips in position to be packed, with the securing-clip in position to have its upper end bent over into locking engagement with the crimped portion of the sheets. Fig. 2 is a view illustrating the sheets in packed condition and locked by the securing-plates. Fig. 3 is a detail perspective view of the securing-clip before it is bent into locking engagement with the sheets.

Like reference-numerals indicate like parts in the different views.

The roofing-sheets 1 1 are provided with V-shaped crimps 2 along the side edges thereof and, as shown, are superimposed one upon the other for purposes of packing and shipping. The block 3, which is one of the parts employed by me in packing the sheets, is triangular in cross-section and is inserted into the concave portion of the crimp 2. The same may be made of wood or other suitable material. It may also be made otherwise than triangular in cross-section, so long as two angularly-arranged sides are provided which are adapted to fit in and engage the inner surfaces of the crimped portions of the sheets. In connection with the block 3 I em-

ploy a securing-clip 4, which is made from sheet metal and originally stamped or bent in the shape shown in Fig. 3—that is, with the sides 5 and 6 parallel to each other and the bottom 7 lying at an acute angle to the side 5. The said side 5 is shorter than the side 6, and may consist merely of a flange bent upwardly from the bottom 7. In applying the securing-clip 4 the side or flange 5 is introduced into the concave portion of the crimp 2 at a point between the block 3 and the angular side wall, constituting a part of the crimp which lies adjacent to the body of the sheet. The bottom 7 of said clip then lies in close contact with the bottom of the block 3, and the side 6 extends upwardly at an angle. The said side 6 is afterward bent inwardly, so that it lies in contact with the outer surface of the crimp 2 on the upper sheet, which is farthest removed from the body of said sheet, and the end of said side is bent down, as shown in Fig. 2 of the drawings, forming a flange 8, which engages the outer surface of the crimped portion of the upper sheet, which lies adjacent to the body of said sheet. When in this position, the said clip holds the roofing-sheets in close contact one with the other, prevents their separation, and the package is in condition for storage or shipment.

While I have described my invention as a means for securing together or packing roofing-sheets, it is obvious that it may be used for securing together and packing other kinds of sheets or strips provided with V-shaped crimps or corrugations along their outer edges.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As a means for securing together or packing sheets or strips provided with V-shaped crimps along their outer edges, a block having inclined walls adapted to be introduced into the concave portions of said crimps and engage the inner surface of the walls thereof, and a securing-clip embracing said block and extending around the outer surface of the convex portion of said crimps.

2. As a means for securing together or packing sheets or strips provided with V-shaped crimps along their outer edges, a block, tri-

angular in cross-section, located in the concave portion of said crimp, and a securing-clip having a flange upon one end fitting in the concave portion of said crimp between
5 said block and the inner surface of the wall of the crimp which lies adjacent to the body of said sheet, the said clip being extended around along the bottom of said block and upon the upper surface of said crimp and pro-
10 vided with a flange which engages the outer

surface of the wall of the crimp which lies adjacent to the body of the sheets.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANK G. CALDWELL.

Witnesses:

HENSON CRISWELL,
WM. H. STELLE.