E. E. FLORA.

TOOL FOR USE IN FASTENING METAL STRIPS.

APPLICATION FILED JAN. 30, 1911.

1,000,083. Patented Aug. 8, 1911.

Fig. 1.

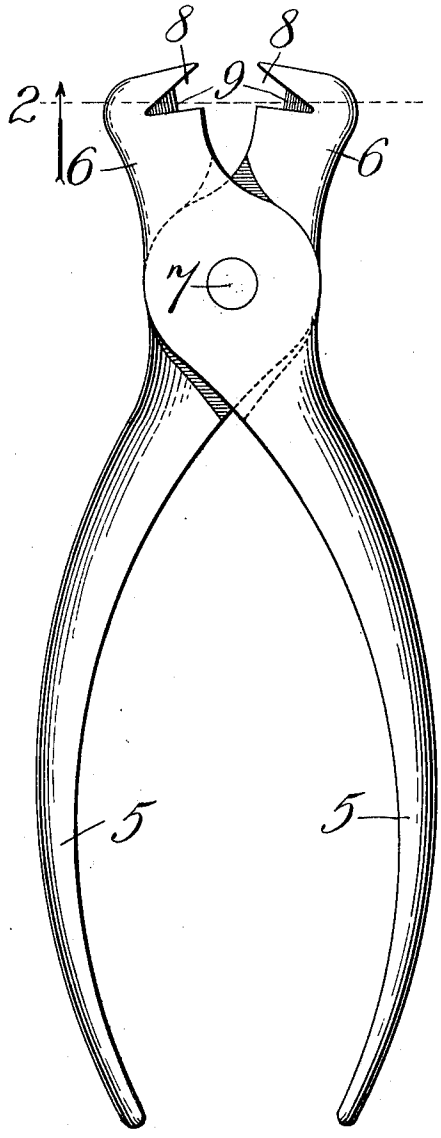


Fig. 2.

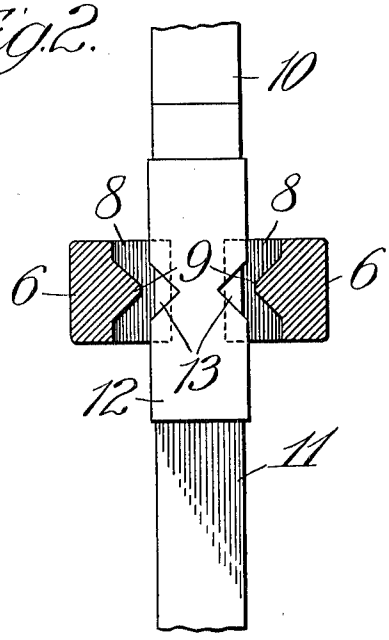


Fig. 3.

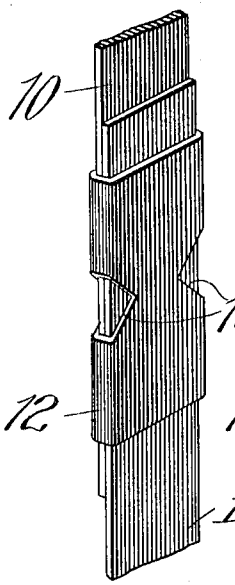
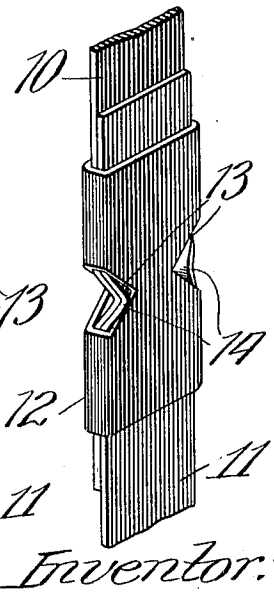


Fig. 4.



Witnesses:

Chas. A. Gaylord.

Chas. A. Bull.

Inventor:

Ellsworth E. Flora.

By Dyrenforth, Lee, Christy & Wiles,

Attys.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ELLSWORTH E. FLORA, OF CHICAGO, ILLINOIS, ASSIGNOR TO SIMPLEX METAL-BOUND BOX COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF NEW JERSEY.

TOOL FOR USE IN FASTENING METAL STRIPS.

1,000,083. Specification of Letters Patent. **Patented Aug. 8, 1911.**

Application filed January 30, 1911. Serial No. 605,541.

To all whom it may concern:

Be it known that I, ELLSWORTH E. FLORA, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Tools for Use in Fastening Metal Strips, of which the following is a specification.

My object is to provide a simple and desirable tool for use, more especially, in crimping the elges of metal-strips in producing the fastener for the strips described and claimed in my application for Letters Patent filed concurrently herewith and bearing Serial Number 605,542. The fastener or fastening means referred to is, more especially, adapted for securing together the ends of metal-straps employed upon boxes, bales and similar packages and consists of a sleeve through which the strips or strap-ends are passed to overlie one another and having one or more gaps in which the marginal portions of the strips are exposed and into which the said portions are forced or bent laterally out of their original alinement to present shoulders to each other and to the marginal walls of the gaps, thereby securing the parts together.

The purpose of the present invention is to provide a handy tool of peculiar construction adapting it for crimping or bending the marginal portions of the strips in the sleeve gaps, for the purpose stated.

In the accompanying drawing—Figure 1 is a side elevation of my improved tool; Fig. 2, a section on line 2 in Fig. 1 through the jaws of the tool, the view also illustrating the manner in which the tool is applied to bend or crimp the opposite edges of the metal-strips in the gaps of a sleeve to secure them together; Fig. 3, a broken perspective view of the sleeve and metal-strips, or strap-ends, before they have been operated upon by the tool; and Fig. 4, a similar view of the same parts after they have been operated upon by the tool.

The tool is of the general form of a pair of pliers having handles 5, 5 and jaws 6, 6, the parts being pivoted together at 7. Each of the jaws 6 is formed with a gutter 8 having side-faces convergent toward the gutter-bottom, and having also a projection or crimping-wedge 9 extending transversely across the gutter. The tip of each crimping-wedge is rounded to render it blunt.

The strips 10, 11 shown may be the ends of a box-strap which it is desired to secure together. The strap-ends are passed through a metal sleeve 12 provided at its opposite sides with gaps 13. The bore of the sleeve is no larger than necessary to permit the strap-ends to pass through it from opposite directions, so that they will overlie one another with their edge-portions crossing the gaps 13, as indicated in Fig. 3. The tool is applied to form the bends or crimps 14 in the strips or strap-ends by causing it at its gutters 8 to pass over and receive the opposite edges of the sleeve and its wedges 9 to engage the strip-edges in the gaps 13. Pressure is then applied to the handles 5 to squeeze and bend or crimp the edges of the strips in the gaps, as shown at 14, to produce shoulders or enlargements, which are presented to each other and to the edges of the gaps to prevent relative sliding of the parts and thus fastening them securely together.

What I claim as new and desire to secure by Letters Patent is—

1. A tool for fastening metal strips having pivoted jaws provided with extended wedge-shaped terminals formed by transverse sleeve-receiving grooves, and indenting projections extending across said grooves, for the purpose set forth.

2. A tool for fastening metal strips having pivoted jaws provided with wedge-shaped terminals formed by transverse sleeve-receiving grooves, and blunt wedge-shaped indenting projections extending across said grooves, for the purpose set forth.

ELLSWORTH E. FLORA.

In presence of—
L. HEISLAR,
R. SCHAEFER.

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