No. 896,170. PATENTED AUG. 18, 1908

W. W. STOUT.

CORRUGATING DEVICE.

APPLICATION FILED MAY 21, 1908.

Fig.3.

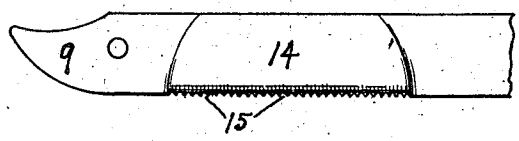
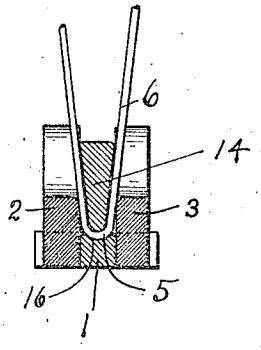


Fig.1.

Fig.4.

Fig.2.



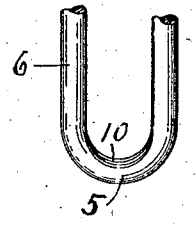


Fig.5.

Witnesses.
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E. M. Brown.

Inventor.
W. W. Stout.
by his attorney
Edward N. Pagelsen.

UNITED STATES PATENT OFFICE.

WILLIAM W. STOUT, OF WALTZ TOWNSHIP, WABASH COUNTY, INDIANA.

CORRUGATING DEVICE.

No. 896,170. Specification of Letters Patent. Patented Aug. 18, 1908.

Application filed May 21, 1908. Serial No. 434,146.

To all whom it may concern:

Be it known that I, WILLIAM W. STOUT, a citizen of the United States, and residing in Waltz township, in the county of Wabash and State of Indiana, have invented a new and Improved Corrugating Device, of which the following is a specification.

This invention relates to means for bending wires to form staples or loops and the object of my improvement is to provide a wire bending device with means for corrugating or serrating the inner side of the loop or staple at the same time it is being bent.

My invention consists in a novel loop or staple bending device adapted for corrugating or serrating, and so constructed that it may also be used for cutting the wire for such loops or staples into proper lengths.

In the accompanying drawings, Figure 1 is a perspective view of my improved bending and corrugating device. Fig. 2 is a vertical cross section on a larger scale showing a piece of wire being bent and corrugated. Fig. 3 is a view of the operating lever. Fig. 4 is a cross section of a staple on a large scale showing the corrugations. Fig. 5 is a side view of the bent and corrugated end of a staple.

Similar reference characters refer to like parts through the several views.

This staple bender and corrugator is especially adapted to form the loops 5 of the fastening means 6 shown in the drawings of Patent No. 874,453 to W. W. Stout, dated December 24th, 1907, for cement fence posts, and especially to form the corrugations 10 in such loops. It is to be understood however, that the device may be employed for shearing wires and bending and corrugating the same for any other purpose.

In the accompanying drawings the frame of this bending device is shown formed with a base 1 and side members 2 and 3 connected thereto or formed integral therewith as desired.

Mounted on a pivot 4 is a lever 7 of any desirable length, which may be provided with a handle 8 at its outer end. The inner end 9 of the lever is provided with a cutting edge 12 so that when pieces of wire are pushed through the hole 13 in the side 2 they can be sheared off by means of this cutting end of the lever. The lever is also provided with a tapering portion 14, rounded at its lower edge, where it is provided with a series of teeth 15. If desired the base 1 may be slightly grooved as at 16 in Fig. 2 to fit the curve of the loop to be formed on the wire.

When lengths of wire are laid across the sides 2 and 3 and the lever is moved down, the part 14 will first bend the wire as shown in Fig. 2 forming the loop 5. A sufficient pressure on the outer end of the lever 7 will cause the teeth 15 to form the corrugations 10 as shown in the drawings. It is apparent that the shearing and bending operations may be carried on simultaneously. It is desirable that the end 9 and portion 14 of this lever be of hard material, preferably of tool steel, in order that it shall have good wearing qualities.

Various changes and modifications may be employed in the construction of this corrugating device without in any way departing from the spirit and scope of the invention.

Having now explained my improvements, what I claim as my invention and desire to secure by Letters Patent is:—

1. In a corrugating and bending device, the combination of a base, sides projecting upward therefrom, and a lever pivoted between these sides having teeth formed at the lower edge thereof and adapted to bend and corrugate wires laid across the sides.

2. A wire bending and corrugating device, comprising a base and upright sides, and a lever pivoted between said sides and having a cutting edge, one of said sides having an aperture through which the wire may extend, said lever being also provided with a series of teeth on its lower edge adapted to bend and corrugate wires placed across the sides.

3. A wire corrugating device comprising a frame, and a lever pivoted in said frame having a downwardly tapering portion provided with teeth at its lower edge, said frame having a groove in which said tapering portion of the lever may extend so as to bend and corrugate wires placed across said groove.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WILLIAM W. STOUT.

Witnesses:

C. H. GARDNER,

O. B. HARVEY.