

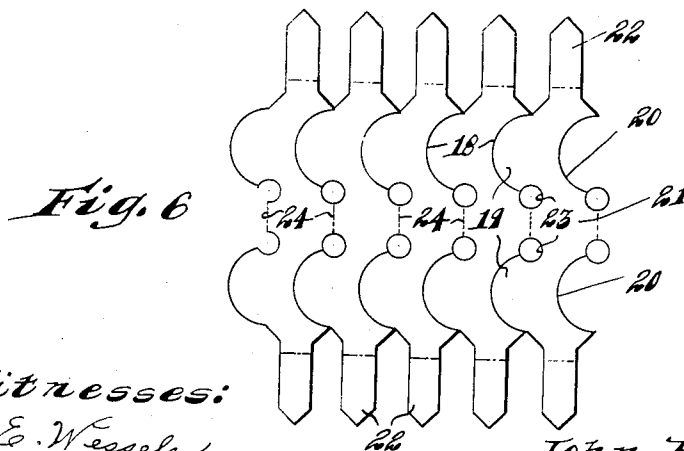
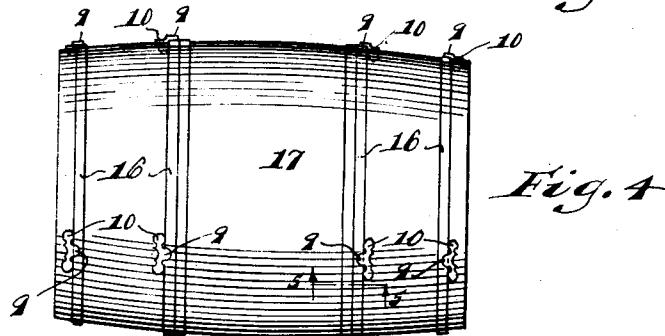
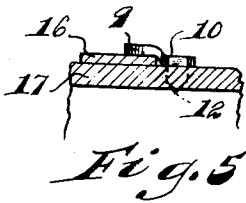
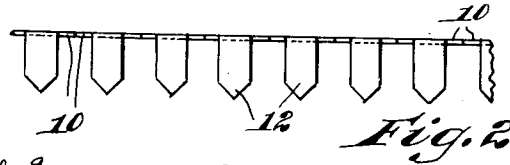
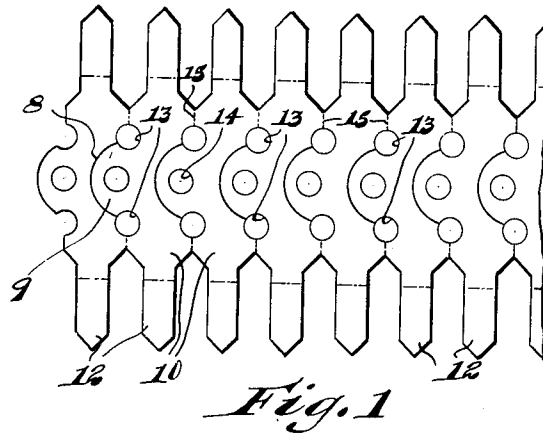
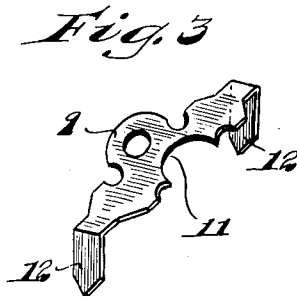
Jan. 18, 1927.

1,614,831

J. B. CROFOOT

STAPLE

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UNITED STATES PATENT OFFICE.

JOHN B. CROFOOT, OF ARLINGTON HEIGHTS, ILLINOIS.

STAPLE.

Application filed May 7, 1925. Serial No. 28,546.

My invention pertains to a staple, and more particularly to staples provided in strip form, and has for its object to provide means on the side of the staple to be clamped over a band or plate or the like for holding the same on a container or object. Another object is to provide a strip of staples so arranged and cut as to be readily sheared apart in the stapling machine and so as to provide a lip means at one side of the staple to be bent onto the top of a plate or the like for holding the same in position.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings, forming a part of this specification, and in which,

Fig. 1 is a partial plan view of a strip of staples in the original form;

Fig. 2 is a side view thereof after the teeth have been bent downward;

Fig. 3 is a perspective view of a staple constructed in accordance with my invention;

Fig. 4 shows my improved staple in operative position for holding a band or hoop on a barrel;

Fig. 5 is a cross sectional view taken on line 5-5 of Fig. 4; and

Fig. 6 is a view of a modified form of staple strip and staple.

In the preferred form of construction shown in the drawing the staple strip is cut on curved lines 8 separating the staple units, and thereby providing a lip 9 at one side of each body 10 of the staple, and a corresponding notch 11 at the opposite side of each staple unit, to form the lip of the succeeding unit. Teeth or cleats 12 are provided at each end of the staple body 10, and extend along the sides of the staple strip, these teeth being bent down along the dotted lines shown in Fig. 1, to the position shown in Fig. 2. Openings 13 are cut along the line of separation outward of lip 9, and an opening 14 may also be provided in the lip, these openings are adapted to receive the fingers or elements provided in the stapling machine for moving the strip forward and for holding it in position during the stapling operation.

The units are connected and remain integral, along the dotted lines 15, as shown in

the drawing, to be sheared and separated along these lines during operation of the stapling machine.

This type of staple is especially adapted to hold a member 16 on a body or object 17, like the band or hoop on the barrel, as shown in the drawing, and this staple is also adapted for holding any plate or member like a sign-plate in position on an object, the teeth 12 being driven into the body or object adjacent the band or member 16, and the lip 9 being bent over the top of the band or member as shown.

In Fig. 6 I have illustrated a modified form, in which a plurality of lines 18 separate lips 19 of one staple unit from the other unit by forming corresponding notches 20 on the body 21. In this form a plurality of lips are provided instead of the single central lip 9 in the preceding form.

Teeth 22 are provided at the ends of the body 21, along the sides of the strip, and openings 23 are provided for receiving the operating fingers of the stapling machine. The staples are left integral or connected between the openings 23, as indicated by the dotted lines 24, and are cut along said lines by the shearing plunger in the stapling machine.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A staple having an oblong body with teeth extending from the opposite ends to engage into an object and having a notch at one side between said teeth, there being openings in the staple body for receiving the operating finger of a stapling machine, and a lip extending from said body at the side opposite said notch to correspond with said notch, said lip being adapted to be bent up and placed over a band or member for holding the same on an object.

2. A strip of connected staple units, each unit having teeth arranged at its ends and positioned at the sides of the strip, said strip

being cut to form lip means extending from one side of each unit and thereby providing a corresponding notch in the side of the succeeding unit, there being integral parts retained between the successive units to be sheared by the stapling machine, and there being openings provided in alinement with the line to be sheared by said machine.

3. A strip of connected staple units, each unit having teeth arranged at the sides of the strip, said strip being cut to form lip means extending from one side of each unit and thereby providing a corresponding notch in the side of the succeeding unit, there being an integral part retained between said units to be sheared by the stapling ma-

chine, said strip being arranged and adapted for receiving a feeding finger of a stapling machine to feed said strip.

4. A strip of connected staple units, each unit having teeth positioned along the sides of the strip, said strip being cut to form lips extending from one side of each unit, there being openings provided adjacent said lips for receiving a feeding finger of the stapling machine, and said units being connected and integral along a line adjacent said openings to be sheared by said stapling machine.

In testimony whereof I have signed my name to this specification.

JOHN B. CROFOOT.