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STAPLE

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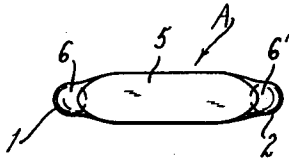


FIG. 1.

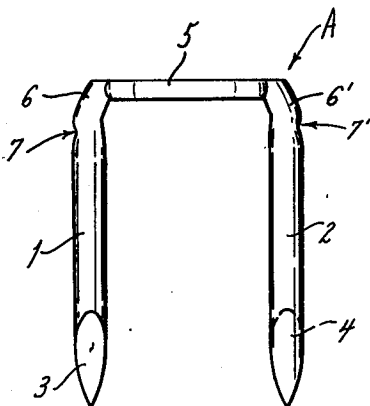


FIG. 2.

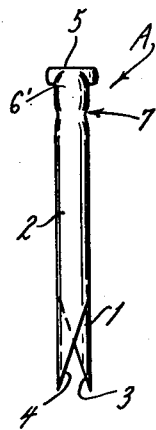


FIG. 3.

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1 Claim. (Cl. 85-49)

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This invention relates in general to certain new and useful improvements in staples and more particularly to staples having uniquely formed bight capable of being driven into place by hammer without deflection or deformation.

Conventional staples, which usually consist of a U-shaped integral section of wire pointed at its ends, are hard to drive into place because of a well-known tendency on the part of the staple to bend or deflect under angular blows of the hammer. Since the average mechanic cannot strike a staple with an absolutely direct blow each time but will usually direct the blow to a slight angle at least a few times in the course of driving the staple, a staple will very frequently bend, squash or twist out of its normal shape. Very frequently it becomes necessary to remove the distorted staple and start over again with a new one. Not only is this procedure time consuming and annoying but also results in the rather costly wastage of a substantial number of staples during the performance of each job.

Therefore, it is the primary object of the present invention to provide a unique type of staple which is constructed so that it may be readily driven into place without bending, squashing or other types of commonly encountered distortion.

It is another object of the present invention to provide a staple with a uniquely formed bight portion capable of receiving the impact of a hammer or any other type of driving blow without distortion or deformation, so that the staple will maintain its shape substantially unaltered as it is being driven into place.

It is a further object of the present invention to provide a staple of the type stated which can be driven into place with strong solid blows without requiring the workman to take any particular precaution or care in the driving thereof, but it can be driven home, true and straight, in the intended place, rapidly and quickly.

With the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts presently described and pointed out in the claim.

In the accompanying drawing—

Figure 1 is a top plan view of a staple constructed in accordance with and embodying the present invention;

Figure 2 is a front elevational view of the staple; and

Figure 3 is a side elevational view of the staple.

Referring now in more detail and by reference

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characters to the drawing, which illustrates a preferred embodiment of the present invention, A designates a one-piece metal staple, formed preferably of steel wire and integrally including two spaced parallel leg members 1, 2, sharpened at their free ends and provided with oppositely presented beveled faces 3, 4. At their upper ends the leg members 2 are integrally joined by a flattened bight portion 5 which is somewhat wider for the substantial portion of its length than the diametral size of the leg members 1, 2, and at its ends tapers inwardly and merges into outwardly and downwardly inclined neck portions 6, 6', which are constricted slightly as at 7, 7', and merge into the upper ends of the leg portions 1, 2.

In use, the staple may be grasped in any conventional manner and set in place over the position at which it is to be driven with the bight portion presented upwardly. The workman may then impact the staple with strong, solid hammer blows directed upon the flat bight portion 5. It has been found that these hammer blows, even though not directly perpendicular to the plane of the top face of the bight portion 5, will, nevertheless, not cause the staple to twist or distort; in fact the stresses of the hammer blows will be distributed with substantial uniformity to both leg members 1, 2, and the staple will move down squarely and truly into the work.

It should be understood that changes and modifications in the form, construction, arrangement, and combination of the several parts of the staple may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

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

A staple made from wire stock comprising spaced parallel leg members of substantially uniform circular cross-sectional shape, a bight member disposed at right angles to the leg members and extending therebetween, said bight member being flattened in a plane perpendicular to said leg members and integrally joined at its opposite ends respectively to the upper ends of the leg members by straight neck portions of substantial circular cross-sectional shape, said neck portions being disposed at an acute angle to each other and having a length which is short in relation to the length of the leg members but which is at least as long as the diametral dimension of said neck portion, the junction of each neck

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portion with its associated leg member being circumferentially constricted.

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