

(No Model.)

F. H. RICHARDS.

STOCK FOR MAKING BUTTON FASTENERS.

No. 326,152.

Patented Sept. 15, 1885.

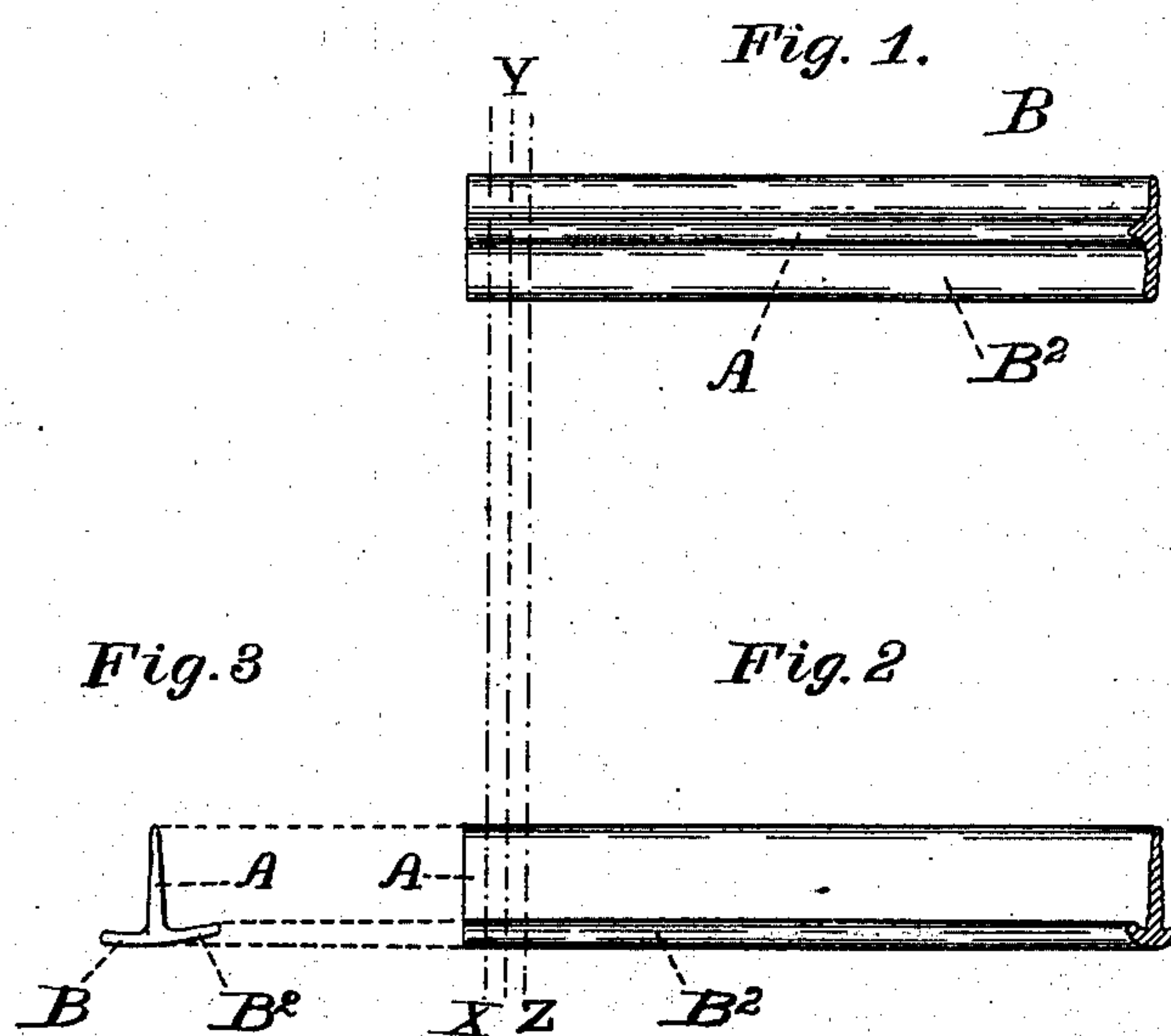
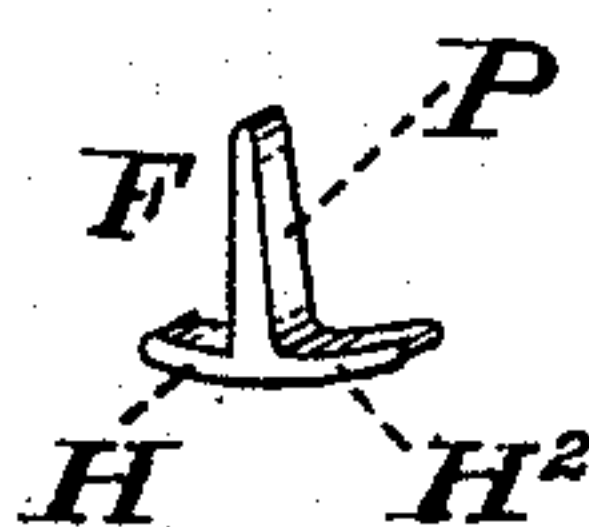


Fig. 4



Witnesses;

H. F. L. Orcutt

H. W. Faulkner.

Inventor;

Francis H. Richards.

UNITED STATES PATENT OFFICE.

FRANCIS H. RICHARDS, OF SPRINGFIELD, MASS., ASSIGNOR TO THE AMERICAN BUTTON FASTENER COMPANY, OF NEW BRITAIN, CONN.

STOCK FOR MAKING BUTTON-FASTENERS.

SPECIFICATION forming part of Letters Patent No. 326,152, dated September 15, 1885.

Application filed October 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS H. RICHARDS, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in the Manufacture of Button-Fasteners, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which—

Figure 1 is a view corresponding to a plan of the wire as prepared for market, showing the web in a vertical plane. Fig. 2 is a side view of the same. Fig. 3 is an end view drawn in projection to Fig. 2. Fig. 4 is a perspective view of a one-prong button-fastener manufactured from the wire shown in the previous figures.

Similar letters refer to similar parts throughout the several views.

This invention relates to an improvement in the manufacture of that kind of button-fasteners which have a prong projecting from one side of a curved bar forming the head of the fasteners, said prong and head being of the same width.

The object of my invention is to furnish a material from which such button-fasteners may be manufactured without any waste of the same; and to this end it consists in a wire or rod having a web suitable to form the prong and flanges to form the head of said button-fasteners, so that these may be made by simply cutting the said wire or rod into lengths equal to the required width of the said fasteners.

In the drawings, A is the web of the wire, and B B² the flanges corresponding, respectively, to the opposite ends, H H², of the head of the button-fastener F, which said ends are usually of unequal lengths, as shown best in Fig. 3. This improved wire is preferably made by first rolling T-shaped rods slightly larger than required, cleaning the surface of scale, and then finishing them to size by the usual method of wire-drawing or by rolling, and the finished wire is readily converted into button-fasteners by simply cutting it (with

suitable shears or saws) at proper points, as lines X Y Z, Figs. 1 and 2.

For performing that cutting operation, I have devised a wire-cutting mechanism adapted to sever the wire by means of shearing-dies, which mechanism constitutes the subject-matter of an independent application that I intend to file.

The web or tongue A of the rod, which is to form the prongs of the fasteners, should be soft enough to allow said prongs to be readily bent by the instruments with which the fasteners are set; but the head B B², Fig. 3, should be rolled thinner and quite hard, so as to be close to the fabric and have greater strength for resisting the pull of the button.

The button-fastener, F, made from said wire is an improvement on the one-prong button-fasteners heretofore used, in that the bearing-surfaces of both the head and prong are smoothly finished, the cut surfaces being on the sides, where they do not to any material extent chafe the leather or fabric into which they may be inserted. I make no claim herein to said improved button-fastener, reserving the same to constitute the subject-matter of another application, No. 146,223, filed October 22, 1884.

What I claim as my invention is—

1. As an improved article of manufacture, the improved button-fastener stock herein described, it consisting of a head, B B², Fig. 3, concaved to correspond with the curved head of a fastener, and the web A, tapered from near said head toward the point thereof, substantially as shown and described.

2. As an improved article of manufacture, the improved button-fastener stock herein described, it consisting of a head, B B², Fig. 3, corresponding to the head of a fastener, and the web A, corresponding to the prong of a fastener, said prong being soft and said head being harder than said prong, substantially as and for the purpose set forth.

FRANCIS H. RICHARDS.

Witnesses:

H. W. FAULKNER,
H. F. Z. ORCUTT.