(No Model.)

F. H. RICHARDS.

PACKING CASE FOR BUTTON FASTENERS.

No. 354,235. Patented Dec. 14, 1886.

Fig. 1

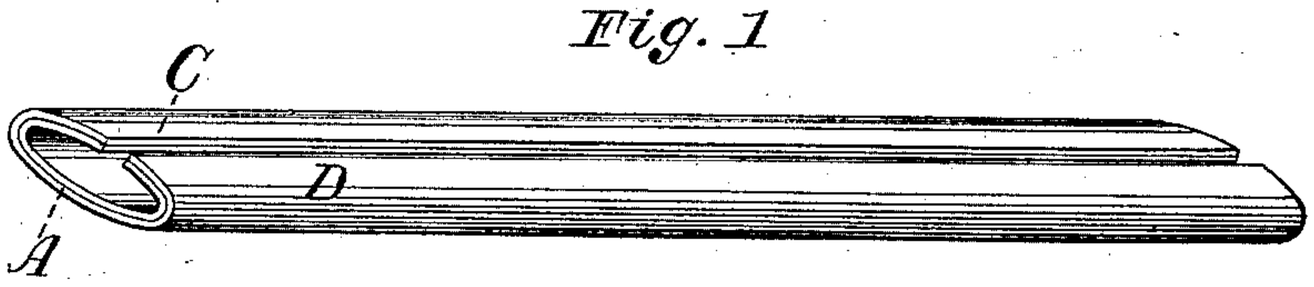


Fig. 2

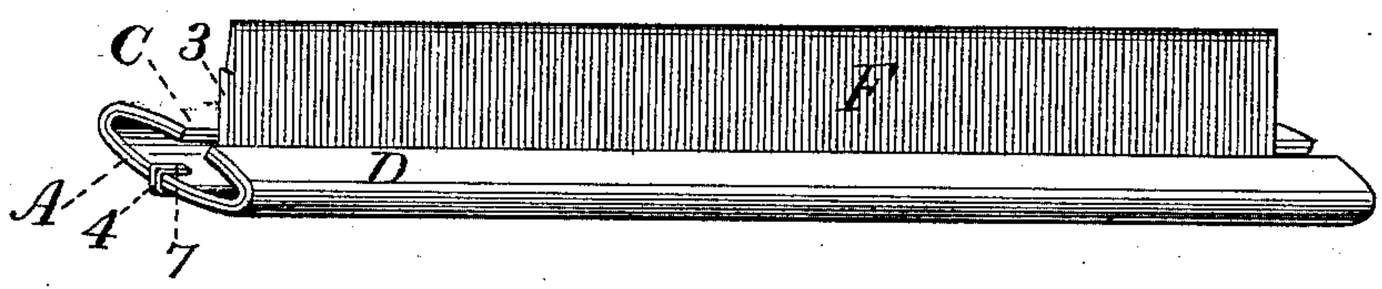


Fig. 3

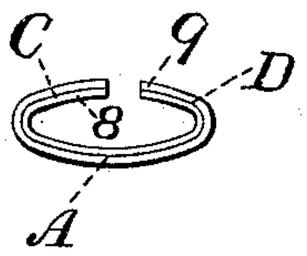


Fig. 4

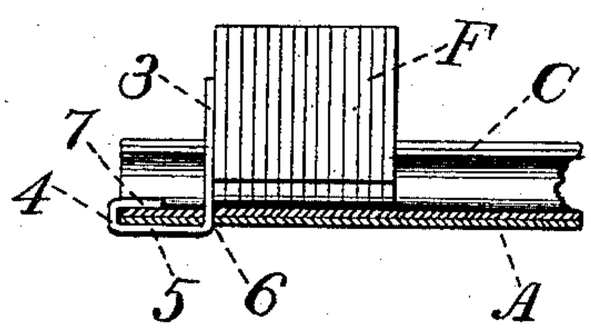


Fig. 5

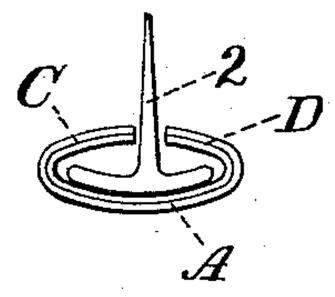
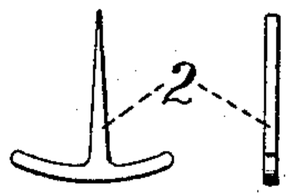


Fig. 6

Fig. 7



Witnesses:

Frank H. Pierpont

C. O. Palmer.

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.

PACKING-CASE FOR BUTTON-FASTENERS.

SPECIFICATION forming part of Letters Patent No. 354,235, dated December 14, 1886.

Application filed July 2, 1885. Serial No. 170,455. (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, State of Massachusetts, have invented certain new and useful Improvements in Button-Fastener Packing-Cases, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

This invention relates to cases to be used for packing the button-fasteners (and others similar thereto) which are shown in United States Patent No. 314,684, dated March 31, 1885, the object being to provide a case adapted to be made of straw-board or other similar material for holding such fasteners in a row, and from which they may be conveniently discharged into the magazine of a button-setting machine.

To this end the invention consists in the improvements hereinafter described and claimed.

In the drawings, Figure 1 is a side view, slightly oblique, of an unfilled packing-case embodying my improvements. Fig. 2 is a similar view of the same case filled with button-fasteners. Fig. 3 is an end view of the unfilled case. Fig. 4 is a partial longitudinal section of the filled case. Fig. 5 is the same as Fig. 3, but with a button-fastener in place. Fig. 6 shows the two parts, laid together, of which the walls of the case are composed. Fig. 7 shows two views, side and edge, of a fastener substantially such as specified.

Similar characters designate like parts in all the figures.

In the drawings, 2 designates a single fastener of the kind above specified, and F a row of them. These fasteners, being T-shaped, are adapted to be held by a grooved case, which incloses their heads on either side of the prong. Accordingly, I make my improved case with a bottom part, A, and flanges C D, which reach over the end of the heads to hold the fasteners in place. If these flanges extend close to the prong, as in Fig. 5, they may fit less closely than otherwise to the ends of the head, and, consequently, will require to be made less accurately. The fasteners 2 being placed in a row, F, in the case, a suitable end stop is fixed into each end to retain them. This stop need not, so far as the other fasteners of the case are concerned, be of any particular description; but I prefer a two-pronged one, made as follows: A piece of ⊔-shaped wire, 5, (having, preferably, one prong, 3, longer than the other one, 4,) has one prong, 3, inserted through the back, A, of the case at 6, the other prong, 4, being bent over the end of the case, as shown at 7, Fig. 4. By unbending prong 4 the end stop may be removed and the fasteners discharged from the end of the case. It is, however, not always convenient to unload the case in that manner, but necessary, instead, to tear it from the fasteners after these have their prongs inserted into the magazine-groove of a button-fastener-setting machine. To provide for this I make the walls of the case of thin, loosely-formed straw-board, or of other similar material strong enough to hold the fasteners with sufficient security, yet weak enough to be readily torn off from them when this is desired. In order to construct such a case of that material, I take two sheets, 8 and 9, Fig. 6, of the same length, but of different widths, of which the narrower one forms the inside layer and the wider one the outside layer of the walls of the case, as shown in Fig. 3. These sheets I cement or glue or otherwise fasten together at a considerable number of points throughout their contacting-surfaces, and by the well-known operation of clamping them into suitable molds at the same time bend them into the required cross-sectional form. By this means I am able to produce at a very low cost a convenient and effective packing-case for the button-fasteners specified.

Having thus described my invention, I claim—

1. The improved button-fastener packing-case herein described, it consisting of two layers of sheet material, as straw-board or the like, said layers being bent and united to form a grooved case, which case is provided with end stops, all substantially as shown and described.

2. The combination, in a button-fastener packing-case of the class described, of the wall or back A, perforated at 6, and the two-pronged end stop, 5, having one prong inserted through said perforation and the other prong bent over the end of said part A, substantially as set forth.

FRANCIS H. RICHARDS.

Witnesses:
C. O. PALMER,
R. L. PECK.