

(No Model.)

F. H. RICHARDS.

PAPER FASTENER.

No. 342,634.

Patented May 25, 1886.

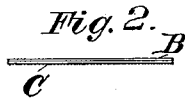
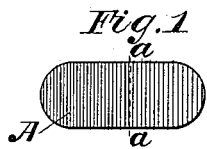


Fig. 3.

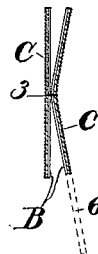


Fig. 4.

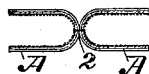


Fig. 5.



Fig. 6.

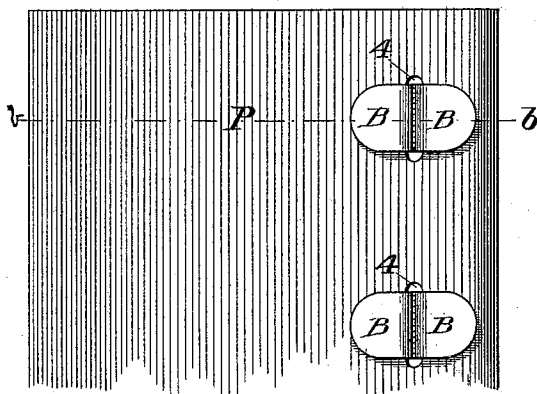


Fig. 7.

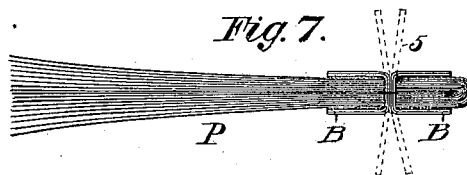


Fig. 8.

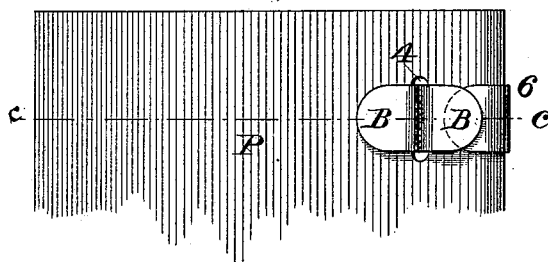
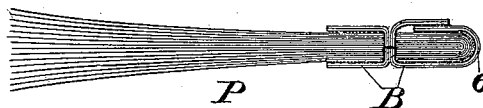


Fig. 9.



Witnesses:
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PAPER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 342,634, dated May 25, 1886.

Application filed September 24, 1885. Serial No. 178,073. (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 Paper-Fasteners, of which the following is a specification.

This invention relates to improvements in flexible paper-fasteners, the object being to furnish an improved fastener of fibrous fabric, as paper or cloth, having four free ends, and which may be attached to the papers fastened therewith, as hereinafter more fully set forth.

In the drawings accompanying and forming a part of this specification, Figure 1 is a top or side view of a piece of fabric such as I have used for making my improved fastener. Fig. 2 is an edge view of the same, having on one side a layer of adhesive substance. Fig. 3 is an edge view of the fastener when made of two of the pieces shown in Fig. 2. Fig. 4 is an edge view showing how the free ends are bent down when the fastener is used. Fig. 5 is a side view of the fastener bent as in Fig. 4, the parts being attached together by sewing. Fig. 6 is a side view of a pamphlet, the sheets of which are held together with my improved fastener. Fig. 7 is a section in line *b b*, Fig. 6. Fig. 8 is a view similar to Fig. 6, showing the fastener having an additional improvement. Fig. 9 is a section in line *c c*, Fig. 8.

Similar characters designate like parts in all the figures.

The blanks for making my improved fastener are flat pieces of any suitable flexible material—such, for instance, as the short strip A of paper or textile fabric shown in Fig. 1, which strip may of course be modified in various ways and degrees as to its form and proportions.

In Fig. 2, B designates a blank of textile fabric, while C is a coating of adhesive material, as gum, on one side thereof.

Having prepared the blanks, I take two of them and unite them at line *a a*, Fig. 1, by any

convenient means—as, for instance, stitching with thread, as at 3, Fig. 3. When used, the fastener thus made of two thicknesses is first put through a slit in the sheets to be fastened, and the four free ends bent outward, as in Fig. 4, when the uniting-stitches 3 will appear somewhat as indicated in Fig. 7.

P designates a pamphlet, book, or pile of sheets to be fastened, having slits 4, through which the fasteners may be inserted, as shown by dotted lines at 5, Fig. 7. This being done, the four ends are bent down on and, being wetted, stick to the outer sheets, as shown.

An additional improvement consists in one of the free ends being longer than the others, as shown by dotted lines at 6, Fig. 3. When inserting this form of fastener, the long end is bent over the back of the pamphlet and over (or under) the opposite one, as well shown in Figs. 8 and 9.

My improved fastener not only has double the holding power, because of the two blanks forming it, of one consisting of a single blank, but being united as described it holds the paper from being torn apart at the slit. Practically, the fastener overcomes the weakness due to the slit, leaving the sheet as strong, if not stronger, than before.

Having thus described my invention, I claim—

1. The improved article of manufacture herein described, comprising a paper-fastener made of flexible material and having four free ends gummed on one side, substantially as set forth, and for the purpose specified.

2. The improved article of manufacture herein described, comprising a paper-fastener formed of two similar blanks of fabric united at the middle and having four free ends gummed on one side, substantially as set forth.

FRANCIS H. RICHARDS.

Witnesses:

FRANK H. PIERPONT,
WILBUR M. STONE.