

(No Model.)

E. KEMPSHALL.

PAPER FASTENER.

No. 356,202.

Patented Jan. 18, 1887.

FIG. 6.

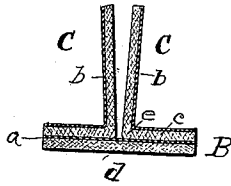


FIG. 7.

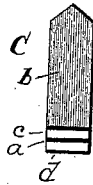


FIG. 5.

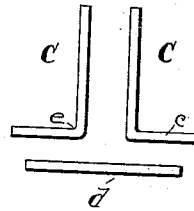


FIG. 2.

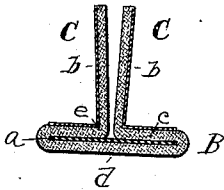


FIG. 3.



FIG. 1.

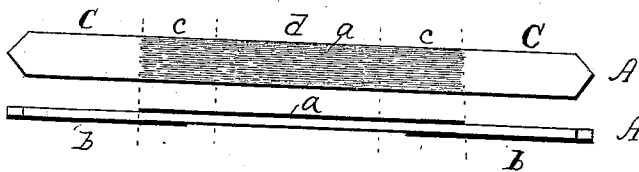
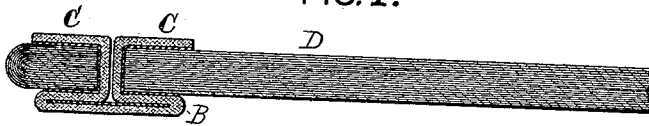


FIG. 4.



ATTEST.

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UNITED STATES PATENT OFFICE.

ELEAZER KEMPSHALL, OF NEW BRITAIN, CONN., ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE RICHARDS FASTENER COMPANY, OF SAME PLACE.

PAPER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 356,202, dated January 18, 1887.

Application filed May 14, 1886. Serial No. 202,199. (No model.)

To all whom it may concern:

Be it known that I, ELEAZER KEMPSHALL, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Paper-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to that class of flexible paper-fasteners usually made of fibrous material, and which have certain of their surfaces made adhesive to stick them to the papers, sheets, leaves, pamphlets, or other articles which they are adapted to fasten together; and the invention consists in the article herein-after described, and more particularly pointed out in the claims.

Referring to the drawings, Figure 1 represents the blank, formed with adhesive substance thereon, from which the fastener is made. Fig. 2 is an edge view of a central section through the prongs and head of the fastener made from the blank and ready for use. Fig. 3 is a side view of Fig. 2. Fig. 4 represents sheets or leaves secured together by my fastener. Fig. 5 represents a modified form of my invention, in which the fastener is formed of three pieces. Fig. 6 shows the completed fastener made from the three pieces. Fig. 7 shows a side view of the same.

Similar characters designate like parts in all the figures.

My improved paper-fastener is made from a single blank, A, of fibrous material, (shown in a plan and edge view in Fig. 1,) having suitable adhesive substance, *a*, on the central portion of one side and, *b b*, on the end portions of the opposite side. The blank A thus formed is folded upon itself from opposite directions, so that the sections *cc* of the blank, having adhesive substance *a* thereon, may be wetted and pressed down upon the central portion, *d*, so that these parts of the blank shall form a flat or bar-shaped head, B, of two layers or thicknesses of the material of the blank.

The end portions of the blank are bent at

right angles at *ee* to the head portions *cc*, to form two flexible prongs, C C, lying side by side and contiguous to each other.

The prongs C C thus bent from the under side of the head B bring the side of the ends of the blank which are not provided with the adhesive substance back to back with each other, while the opposite or outer side of the prongs and the exposed surfaces of the divided layer portions *cc* of the head are coated thereon with adhesive substance, *b b*, similar to the ordinary seals and labels.

The several parts of the head portion of my fastener may be united by any suitable means—as sewing them together along their edges; but I prefer to unite them by adhesive substance, as hereinbefore set forth.

If desired, the several parts of the fastener may consist of three pieces of material prepared with the adhesive substance thereon and cut in suitable lengths, as shown in Fig. 5, and wetted on the adhesive sides and pressed together, ready for use, as shown in Fig. 6; but I prefer to make them of a single blank, as hereinbefore described.

The blanks are usually cut from material in the form of a sheet—as, for instance, a tough paper, like the so-called “bond” or “linen” paper, or a suitable textile fabric may be used. I sometimes use a strip of prepared ribbon with selvage edges, or other suitable material, of the width that it is desired to have the fastener, which are made of a length equal to the united length of the three head-forming parts and the two prongs, the extent of these parts being indicated by dotted lines across the views in Fig. 1.

The ribbon may be gummed in suitable length and blanks before being cut, or the desired lengths may be cut off and then gummed with the adhesive substance on one side at the ends, as shown at *b b*, and in the middle of the other side, as shown at *a*, Fig. 1, ready for moistening and folding into form.

In using my improved fastener a perforation is made through the sheets or leaves desired to be secured together, of the width of the prongs of the fastener, by any suitable instrument.

The gummed sections of the inner side of the head and outer surface of the prongs of the

fastener are then moistened or wetted and the prongs pressed together and passed through the perforation until the head lies flat upon and closely against one side of the leaves or sheets, adhering thereto by the moistened gum on the inner side. The prongs are then bent over upon the sheets in opposite directions to each other, and tightly compressed upon the sheets until there is perfect cohesion between them.

Having fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A paper-fastener of fibrous material having a head formed of two layers, one of the layers being secured to the other layer by adhesive substance, the inner free ends being divided and bent to form prongs and coated with

adhesive substance on their outer sides, substantially as and for the purpose set forth. 20

2. A paper-fastener of fibrous material composed of one piece having a head formed of two layers, one of the layers being secured to the other layer by adhesive substance, the inner free ends being divided and bent to form prongs and coated with adhesive substance on their outer sides and on the inner exposed surface of the head, substantially as and for the purpose set forth. 25

In testimony whereof I affix my signature in presence of two witnesses. 30

ELEAZER KEMPSHALL.

Witnesses:

FRANCIS H. RICHARDS,
WALDO L. CURTISS.