

(No Model.)

E. KEMPSHALL.
PAPER FASTENER.

No. 347,719.

Patented Aug. 17, 1886.

Fig. 1

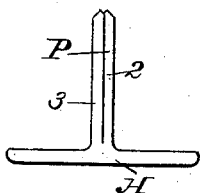


Fig. 2

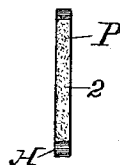


Fig. 3

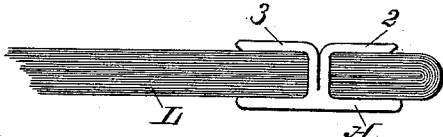
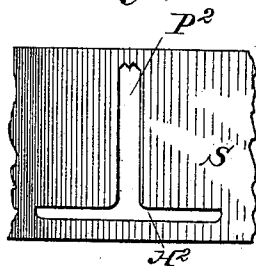


Fig. 4



Witnesses:

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UNITED STATES PATENT OFFICE.

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

PAPER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 347,719, dated August 17, 1886.

Application filed December 21, 1885. Serial No. 186,368. (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, State of Connecticut, have invented certain new and useful Improvements in Paper-Fasteners, of which the following is a specification.

This invention relates to improvements in metallic paper-fasteners, the object being to furnish such an article adapted to be cut out of sheet metal, as hereinafter set forth.

In the drawings accompanying and forming a part of this specification, Figure 1 is a side view of a completed fastener embodying my improvements. Fig. 2 is an edge view of the same. Fig. 3 shows the fastener applied to the holding together of the leaves of a pamphlet or document. Fig. 4 shows a piece of sheet metal from which one of the fasteners has been cut.

Similar characters designate like parts in all the figures.

My improved paper-fastener consists in a T-shaped piece of sheet metal having a bar-shaped head, H, and a puncturing-prong, P, which is divided into two parts or prongs, 2 and 3, that are adapted to be inserted through the leaves, as L, and then to be bent down in opposite directions, as in Fig. 3. When thus inserted, the fastener takes its bearing on the cut edge of the metal, both on the head and on the prongs, and forms a very strong and secure fastening.

With the exception of the division of the prong P into two parts, the fasteners may be struck out of the sheet S in its finished form,

and by means of suitable dies and machinery the prong may also be divided at the same operation. The spaces in the sheet from which the fastener head and prong are respectively cut out are designated by H² and P².

This paper-fastener, it will be noted, comprises a single piece only of unfolded and unbent metal, it makes on insertion but a single puncture in the leaves fastened, the metal in it remains in the same state in which such metal existed in the sheet, and it is adapted to be manufactured by means of ordinary machinery and completed at a single operation, with small cost for labor and material.

The material which I consider most suitable for use in making my improved fastener is sheet-brass of medium hardness; and I prefer to use it in sheets of about No. 18 to No. 20 gage in thickness. Other materials may, however, be used instead of brass, and those of a different thickness.

Having thus described my invention, I claim—

As an article of manufacture, the improved paper-fastener herein described, it comprising a straight bar-shaped head and two straight prongs rising contiguous to each other from one edge of said head, the head and prongs being adapted to take their bearing on the cut edge and to be all struck out of a sheet of metal in their finished form, substantially as set forth.

ELEAZER KEMPSHALL.

Witnesses:

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