(No Model.)

J. C. JENSEN.

INSERTER OR NEEDLE FOR PAPER FASTENERS.

No. 377,030. Patented Jan. 31, 1888.

Fig. 1.

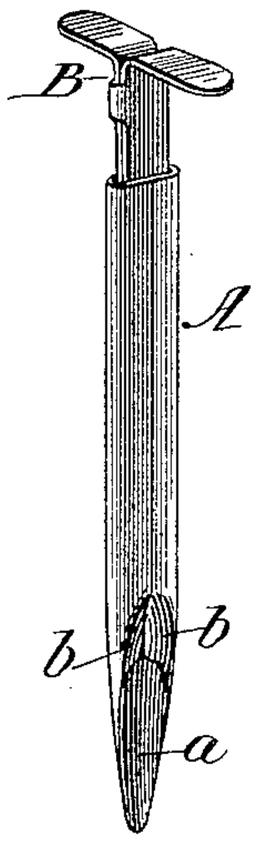

Fig. 2.

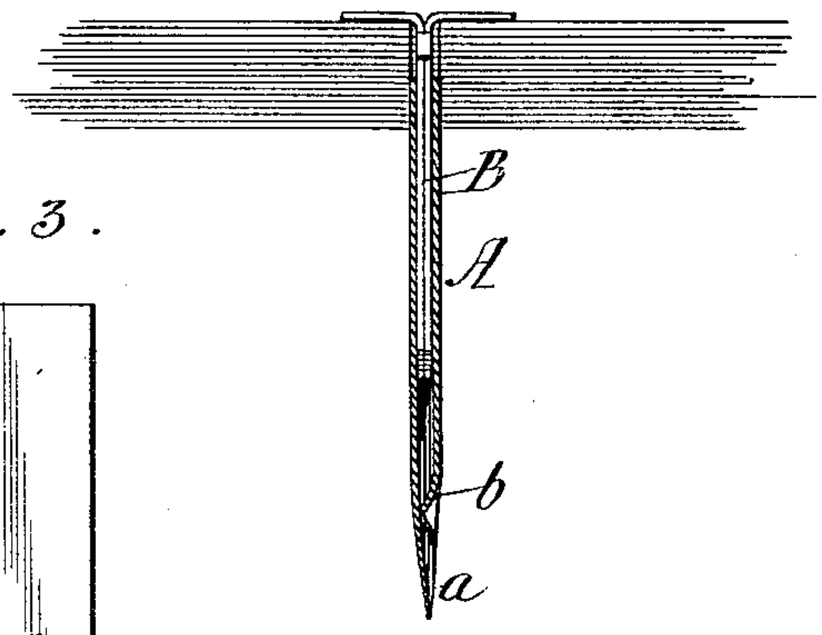

Fig. 3.

Fig. 4.

Witnesses:
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JOHN C. JENSEN, OF CHICAGO, ILLINOIS.

INSERTER OR NEEDLE FOR PAPER-FASTENERS.

SPECIFICATION forming part of Letters Patent No. 377,030, dated January 31, 1888.

Application filed September 6, 1887. Serial No. 248,924. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. JENSEN, residing at Chicago, in the county of Cook and State of Illinois, and a citizen of the United States, have invented a new and useful Improvement in Inserters or Needles for Paper-Fasteners, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view showing a paper-fastener inserted in the needle or holder. Fig. 2 is a longitudinal vertical section of the same, showing the paper-fastener and needle passed through a number of sheets of paper. Fig. 3 is an elevation of the blank from which the needle or holder is formed. Fig. 4 is a cross-section through the point of the needle.

All of the figures are enlarged.

This invention relates to an improvement in a needle or inserter for use with a paper-fastener for attaching together sheets of paper, and has for its object to construct a cheap, reliable, and simple needle or inserting-tool adapted to hold a paper-fastener while punching a hole to receive the same; and its nature consists in forming a blank from a piece of sheet metal that can be bent and formed to leave an opening at the top for the entering of the fastener-prongs and closed at the bottom of the receiving portion by having the lower ends of the sides of the blank pressed in against the main or body portion, and below these pressed-in ends a point for forming the hole through the papers to be fastened.

In the drawings, A represents the main or body portion of the needle or inserting-tool, and B represents a metallic paper-fastener, which may be of the construction shown, or of any of the ordinary forms having two prongs which lie side by side.

The needle or inserting-tool is formed by bending over the edges of the blank shown in Fig. 3 until they meet, and then depressing the lower ends of said edges to form a receptacle with a bottom, *b b*, which bottom also tends to hold the edges of the sides of the blank together. The point *a* is formed below these turned-in ends *b b*, and has its outer face provided with a rib, *c*, to add strength, so that it will not be liable to bend under pressure. Its edges can be sharpened to enable it to pass more readily through the paper being bound together.

In use the prongs of an ordinary paper-fastener of the same general class as that shown are inserted in the opening in the top of the needle A, and upon pressure being applied to the head of the fastener the needle with the fastener therein will be easily pushed through the sheets of paper being operated upon, the sharp or knife edges of the point *a* facilitating the easy entrance of said point by reason of their cutting action. After the hole has been made the needle is pushed through until the head of the fastener comes in contact with the top sheet of paper, when the needle is to be pulled entirely through from the bottom, leaving the fastener in the hole thus formed, after which the prongs can be turned back to secure it in place, as usual, and the needle be again used, as above described.

It will be apparent that the use of my invention will enable a fastener to be much more readily inserted than when the fastener is used alone, and by its use the danger of bending the prongs when inserting the fastener for binding quite a number of sheets together is obviated.

I do not claim, broadly, a needle or inserter for this purpose, as one is shown in my patent of April 16, 1872, No. 125,682; but

What I do claim as new, and desire to secure by Letters Patent of the United States, is as follows:

1. The needle or inserting-tool A, having point *a* and depressed ends *b*, substantially as specified.

2. The needle or inserting-tool A, adapted to receive and hold a paper-fastener, and having a point, *a*, said point being provided with sharpened edges for cutting purposes, substantially as and for the purpose specified.

3. The needle or inserting-tool A, having a point, *a*, formed with cutting-edges, and a rib, *c*, for receiving and inserting paper-fasteners, substantially as specified.

JOHN C. JENSEN.

Witnesses:
O. W. BOND,
H. T. JONES.