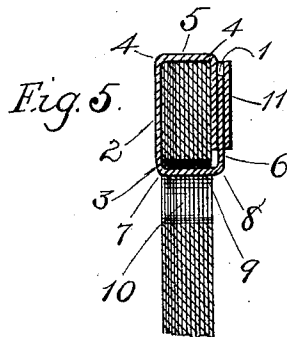
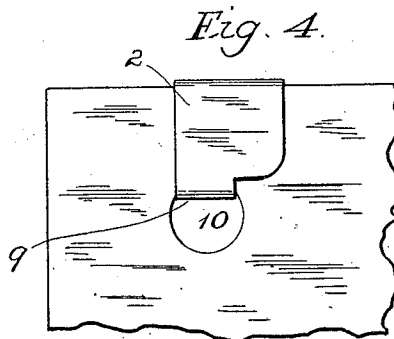
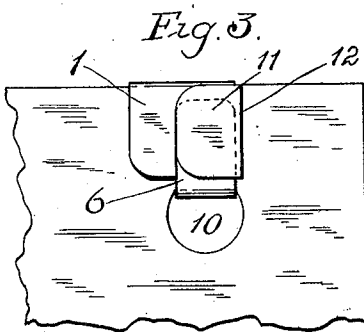
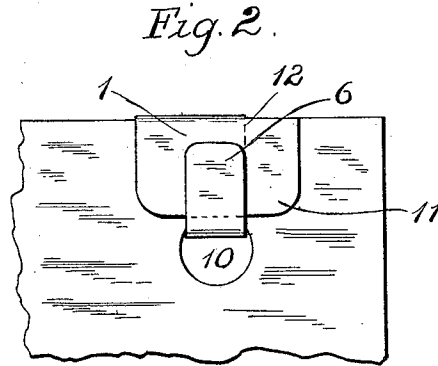
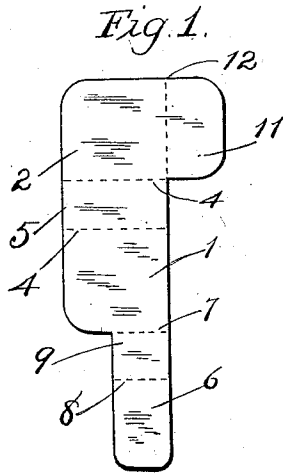


C. S. CARTER.
PAPER FASTENER.
APPLICATION FILED MAY 10, 1911.

1,056,969.

Patented Mar. 25, 1913.



WITNESSES:
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PAPER-FASTENER.

1,056,969.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed May 10, 1911. Serial No. 626,225.

To all whom it may concern:

Be it known that I, CHAPEL S. CARTER, of the town of Ansonia, county of New Haven, and State of Connecticut, have invented new and useful Improvements in Paper-Fasteners, of which the following is a full, clear, and exact description, when taken in connection with the accompanying drawings, which form a part thereof.

My invention relates to paper fasteners, and its object is to provide an article of the kind which may be readily manipulated by the fingers, without injury thereto, will prevent the fastener from cutting through the paper to the margin thereof, or so enlarging the hole through which the fastener passes as to permit the disengagement of the fastener from the paper, and which also has its paper clamping part locked against release by the bending of the said clamping part after it has been engaged with the sheets of paper.

With these ends and others in view my invention is embodied in preferable form in the article hereinafter described and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the inside face of the article in the form of a blank as it appears before it is bent into shape for application to the sheets of paper; Fig. 2, a plan view showing a part of a sheet of paper with the fastener applied to the edge thereof, and the connecting tongue bent into clamping position; Fig. 3, a view similar to Fig. 2, showing the fastener in final clamped and locked position; Fig. 4, a rear view of the fastener as applied to sheets of paper; and Fig. 5, a vertical section through the fastener and several sheets of paper connected by said fastener.

In all figures, similar letters of reference represent like parts.

Referring to the drawings, the fastener is made of an integral piece of thin pliable metal, having front and back plates 1 and 2, respectively, which constitute a saddle portion which is adapted to engage and ride upon the edges of a plurality of paper sheets 3 to be joined.

4, 4 indicate the lines on which the fastener is designed to be bent so as to carry the front and back plates down into proper depending position, parallel to one another leaving a connecting bridge portion 5 at the

outer end of the fastener to bear upon the edges of the sheets of paper. The fastener is preferably of such width that this bridge portion will have a sufficiently extended bearing upon the edges of the sheets to hold the same in alinement.

From the lower edge of the rear plate 2 extends a tongue 6 having its inner edge continuous with the inner edge of the plate but reduced in width from that of the plate so as to provide a narrow and very pliable body. This tongue is extended to be bent at 7 and 8, leaving a bridge portion 9. The tongue is adapted to be inserted through the holes 10, which are punched through the sheets of paper at a distance from the margin substantially equal to the length of the front and rear plates of the saddle portion, so that when the fastener is applied to the sheets the junction of the rear plate and tongue 6 will be opposite or adjacent to said holes so that the tongue may be readily passed therethrough to connect the sheets. Extending from the edge along that portion of the fastener constituting the plate 1 is an arm 11 adapted to be bent back upon the outer face of the plate 1 along the line 12, and constituting a locking arm for the connecting tongue 6.

In applying the fastener, the holes having been first punched through the sheets of paper, the fastener is bent at the lines 4, 4 to form the saddle portion of the fastener, which is then engaged with the edges of the paper, hooking the sheets together, and the tongue 6 is then passed through the perforations and then bent upwardly, and then down upon the front plate 1, thus hooking the sheets together at the edges of the perforations and clamping the plate portions upon the surfaces of the end sheets and fastening the sheets together. The locking arm 11 is then bent over to the left (Fig. 3) upon the tongue, serving to lock the tongue securely in its closed fastening position. In effect, a closed pliable hook is thus provided.

The broad bearing surface afforded by the two plates and the engagement of the saddle portion formed thereby with the edges of the sheets prevents any shifting or rotation of the tongue within the perforations such as would tend to cut or break the surrounding edges, thereby avoiding the enlargement of the perforations and the possi-

ble consequent disengagement of the fastener with the paper. This broad bearing surface also serves to provide a stronger gripping action upon the sheets than the usual fastener with a small head and with narrow separate members projected through the sheets of paper.

It will be noted that the tongue 6 may be firmly locked in place without the necessity of its passing through a special hole or perforation provided for it in the main body portion of the fastener. This tongue is merely bent across a free edge at the opposite extremity of the fastener, and the locking portion 11 when bent flat against the upper face of the tongue will lock the tongue firmly against displacement. The fact that the locking portion or arm is bendable about an axis non-coincident with that edge of the body portion over which the locking tongue is bent, is of considerable importance in actual practice. It is also preferable to have one edge of the tongue in alinement with that edge of the body portion from which the locking portion or arm extends laterally, so that said locking portion or arm may be bent over on a line with a side edge of the body portion about an axis substantially at right angles to that edge of the body portion over which the tongue is bent.

It is clear that the article may be made of various sizes and the shape thereof varied without departing from the principle of my invention.

Having thus described my invention, what I claim, is:—

1. A paper fastener, comprising a sheet metal blank having a body portion, a rela-

tively narrow tongue extending from one extremity of the body portion and bendable over the edge at the opposite extremity of the body portion, and a locking arm extending integrally from the body portion and bendable over the bent over tongue on an axis substantially at right angles to the aforesaid edge of the body portion; substantially as described.

2. A paper fastener, comprising a sheet metal blank formed of a body portion, a relatively narrow tongue projecting from one end of said body portion and having one of its side edges alined with a side edge of the body portion, and an arm extending laterally from the aforesaid side edge of the body portion at that extremity of the body portion remote from the tongue; substantially as described.

3. A paper fastener, comprising a sheet metal blank formed of a body portion, a relatively narrow tongue projecting from one end of said body portion and having one of its side edges alined with a side edge of the body portion, and an arm extending laterally from the aforesaid side edge of the body portion at that extremity of the body portion remote from the tongue, and bendable about a line in alinement with the alined side edges of the tongue and body portion, substantially as described.

In witness whereof I have hereunto set my hand on the 1st day of May, 1911.

CHAPEL S. CARTER.

Witnesses:

MICHAEL H. SCULLY,
A. THEODORA MANVILLE.