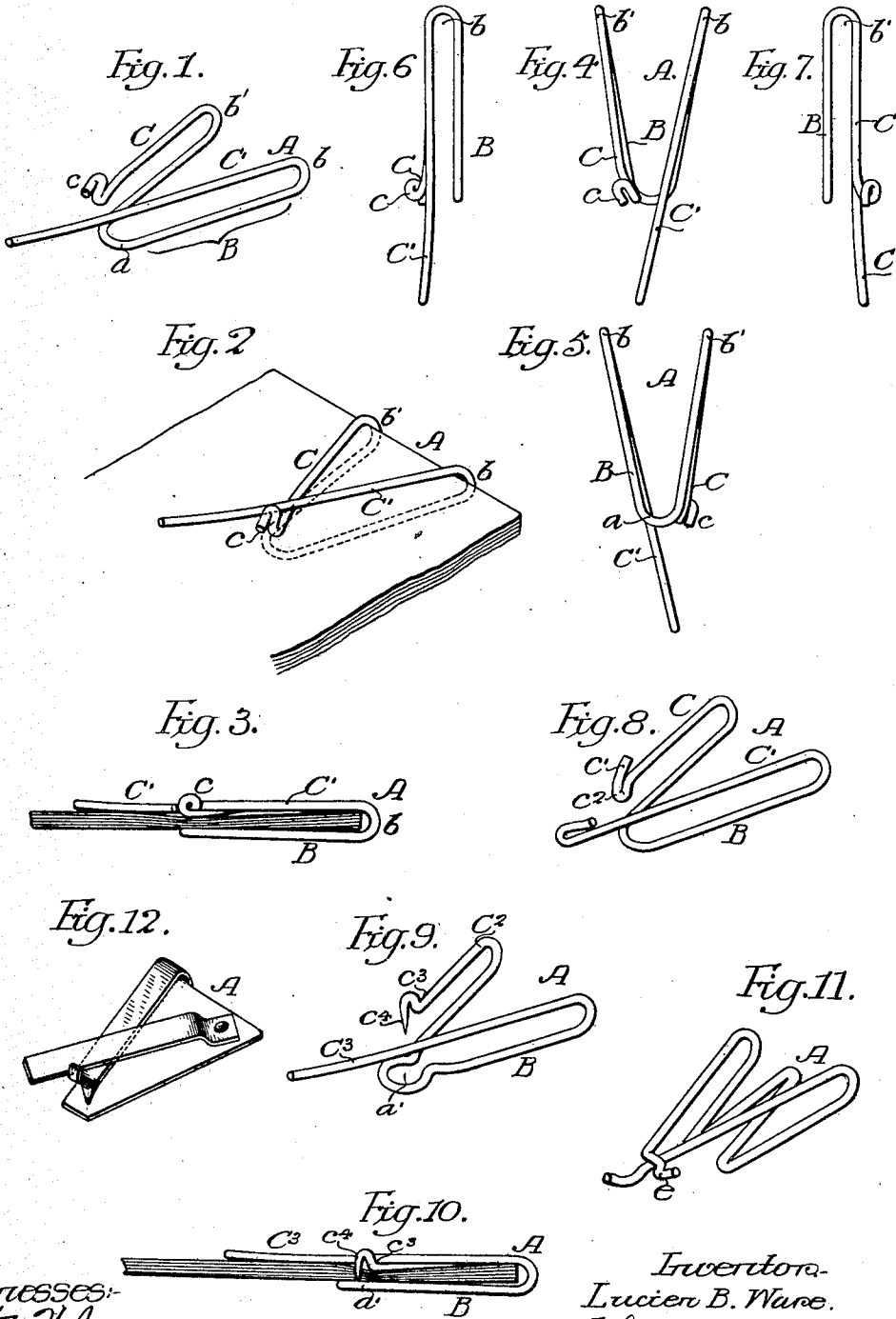


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PATENTED JULY 16, 1907.

L. B. WARE.
PAPER FASTENER.

APPLICATION FILED NOV. 22, 1906.



Witnesses:
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PAPER-FASTENER.

No. 860,426.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LUCIEN B. WARE, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Paper-
5 Fasteners, of which the following is a specification.

The object of my invention is to produce a paper fastening clip which, while allowing of the convenient detachment of papers or other articles secured thereby, will yet more firmly hold such papers together than do
10 other devices of the kind now in common use. This object I attain in the following manner, reference being had to the accompanying drawing in which:—

Figure 1, is a perspective view of my improved paper fastener; Fig. 2, is a perspective view showing the fastener attached to a number of sheets of paper; Fig. 3,
15 is a side view of Fig. 2, showing the paper in section; Figs. 4, 5, 6 and 7, are detached views of the paper clip illustrated in Fig. 1; Fig. 8, is a view of a modification of my invention, and Figs. 9, 10, 11 and 12, are views
20 of still further modifications of the invention.

My improved paper fastener A consists of a base section and a clamping section consisting of two arms C—C' which extend over the base section B and I preferably make the fastener of spring wire bent, as clearly
25 illustrated in Fig. 1, to form a U-shaped base B. The wire is also bent at *b—b'* to form the arms C—C', which extend over the base section. The end of the arm C is bent to form a notch *c* with which the arm C' engages when forced over the arm C, as illustrated in Fig. 2.

The arms C, C' are so proportioned that the clip can be readily passed over the paper to be fastened as illustrated in Fig. 3, and the arm C is then forced down on to the paper by moving the arm C' over it and the arm C' is held in position by the catch *c* binding the paper
35 firmly between the arm C of the clamp section and the base section B. By this means the fastener is firmly secured to the paper and cannot be accidentally removed, yet can be readily detached by simply lifting the arm C' throwing it out of engagement with the catch *c* and
40 the arms will immediately resume their normal positions and the paper will be free.

In Fig. 8, I have shown the arm C having its end bent down to form a depending portion *c²* and the extreme end bent up to form the catch *c'*. The portion *c²* will
45 bear against the paper when the arm C' is passed over the arm C.

In Figs. 9 and 10, I have shown a still further modification in which the end of the arm C² is bent to form a catch *c³* and the extreme end is pointed as at *c⁴* to puncture the paper when the arm C³ is passed over the arm C² and locked. I preferably bend the base B' so as to form an eye *a'* but a plain loop may be used in some instances as illustrated in Fig. 1, if desired. Thus when
50 this particular fastener is applied to the paper and the arm C³ locked, it will force the point *c⁴* of the arm C² into the paper making a positive fastening, not rely-

ing upon the friction between the base and the arms as in Figs. 1 and 2.

The fastener above described can be made very cheaply and with the use of very little more wire than 60 the ordinary spring fastening now in use.

In Fig. 11, I have shown a modification in which the fixed arm has a catch *e* on the underside and the movable arm is passed under the fixed arm instead of above it. In this instance the movable arm is pressed down
65 upon the paper.

In Fig. 12, I have shown a modification in which the device is made of sheet metal, the base and one arm being preferably punched from sheet metal, bent as shown and a lip formed on the fixed arm, the removable arm in this instance is made of spring metal and is riveted to the base so that it can swing over the other arm. The fixed arm may have a pin point which will engage the paper if desired.

It will be seen that the form of the fastener may be 75 altered as well as the form of the catch, and that material other than wire may be used for making the fastener or parts thereof.

While I have described my invention as particularly adapted as a paper fastener, it will be understood that 80 it can be clamped to any article and may be used for attaching other articles than paper together without departing from the essential features of the invention.

I claim:—

1. A fastener comprising a base section and a clamping section extending over the base section, the clamping section consisting of two arms normally independent of each other, one of said arms being shaped to be moved laterally across the other arm into engagement therewith so that material inserted between the two sections will be clamped therebetween, substantially as described. 90

2. The combination in a fastener comprising a base section and a clamping section extending over the base section, the clamping section consisting of two disengaged arms normally in the same plane and directly connected to the base section, one arm being arranged to be moved laterally over the other arm and to force said arm towards the base section, substantially as described. 95

3. The combination in a fastener comprising a base section and a clamping section, said clamping section consisting of two arms, one of said arms being adapted to bear upon the other with spring pressure, with locking means at the end of one arm arranged to engage the other arm when it is moved laterally over the said arm having the locking means so as to force the said arm towards the base section, substantially as described. 100

4. The combination in a fastener comprising a base section, a clamping section extending over the base section consisting of two arms arranged in the same plane, one of said arms being shaped to form a catch and the other arm being arranged to be moved laterally over the arm with the catch so as to force said arm towards the base section, the catch retaining the other arm, substantially as described. 110

5. A fastener consisting of a base section and a clamping section having two arms extending over the base section, said fastener being made of spring metal and in a single piece of wire bent substantially as described, one 115

of the arms of the clamping section being bent at the end to form a catch with which the other arm engages, substantially as described.

5 6. A fastener consisting of a base section and a clamping section having two arms extending over the base section, one arm having a notch and a pointed end projecting towards the base section, the other arm being of such a length as to pass over the pointed end and being of spring metal to force the said arm towards the base sec-

tion, the said spring arm being held to the other arm by 10 the catch, substantially as described.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

LUCIEN B. WARE.

Witnesses:

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WM. A. BARR.