

No. 767,512.

PATENTED AUG. 16, 1904.

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PAPER FASTENER.

APPLICATION FILED MAR. 16, 1904.

NO MODEL.

Fig. 1.

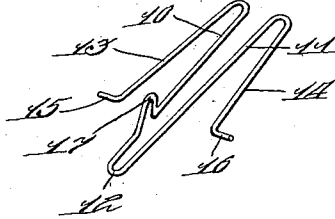


Fig. 2.

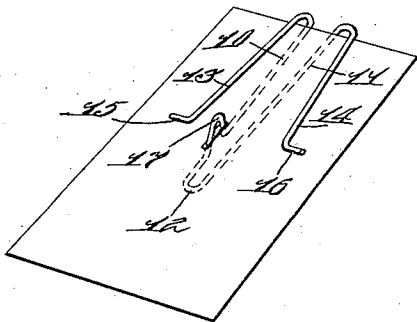


Fig. 3.

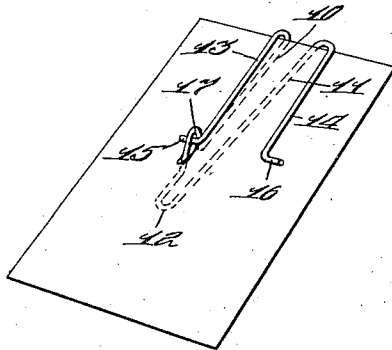
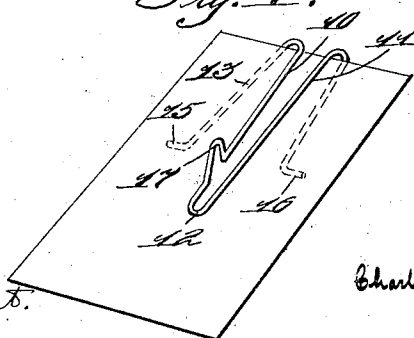


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES D. BRONSON AND EARLE F. WATSON, OF DAYTON, OHIO.

PAPER-FASTENER.

SPECIFICATION forming part of Letters Patent No. 767,512, dated August 16, 1904.

Application filed March 16, 1904. Serial No. 198,353. (No model.)

To all whom it may concern:

Be it known that we, CHARLES D. BRONSON and EARLE F. WATSON, citizens of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Paper-Fasteners, of which we declare the following to be a full, clear, and exact description.

Our invention relates to an improved paper-holding clip or fastener, the general object of this improvement being to provide a clip which shall be readily attachable to the paper and at the same time be secure from accidental separation from the papers to which it is attached. With these and other objects we have constructed the preferred form of our invention, as shown in the accompanying drawings, in which—

Figure 1 represents a perspective view of the clip. Figs. 2, 3, and 4 represent perspective views of the clip, showing the various manners of using it in attaching it to papers.

The clip is preferably constructed of a single piece of spring-wire bent at its middle portion into two legs 10 and 11, which are doubled back from the middle point 12 and may run substantially parallel or may diverge, if desired, and each of these legs 10 and 11 is in turn bent reversely upon itself to form spring-pressure arms 13 and 14, respectively, and these arms 13 and 14 are formed at their extremities with hooks 15 and 16, respectively. The point 12 is at the paper-inserting end of the clip, and, as will be seen from Fig. 2, when the clip is attached to the papers the middle portion comprising the legs 10 and 11 lies on one side of the papers, as shown in dotted lines, and the pressure-arms 13 and 14 lie on the other side, thus holding the papers by spring-pressure; but in order to prevent the clip from being accidentally detached from the papers we have formed one of the legs 10 with a sharp-pointed perforating-loop 17, which projects upward from the plane of the clip and is intended to perforate the papers after the clip has been slipped on in the manner shown in Fig. 2. This loop is sharply pointed and has straight sides, so that it may easily perforate the papers by slight pressure, and the fact that the loop projects through

the papers will tend to prevent the clip from being inadvertently detached; but as a further means of preventing such detachment we have so bent the wire that the loop projects somewhat in a backward direction from the paper-inserting end of the clip, so that if there is a pull upon the clip, tending to detach it, this backward bending of the loop will prevent the loop from easily slipping out of the perforation in the papers and, in fact, will rather tend to make the loop hold more securely in position. However, in order to provide even a more secure device for preventing the clip from being accidentally detached, especially when the perforation through which the loop extends has become somewhat enlarged, we have arranged the aforesaid hook 15 of the arm 13 in such proximity to the loop that the arm may easily be pulled sidewise enough to allow the hook 15 to engage the loop 17, as shown in Fig. 3, where it is held engaged by the natural spring tension of the arm 13, and in such position the clip is securely attached to the papers with no danger of unintentional detaching. It will also be observed that since the loop 17 projects upward from the plane of the clip and the hooks 15 and 16 are in the plane of the clip the clip can be used as an ordinary clip, which does not perforate the papers, but merely holds them by spring-pressure, such manner of using being shown in Fig. 4, consisting simply in attaching the clip in the reverse manner, so that the loop 17 projects outward from the papers and does not perforate the same.

It is of course not necessary to have a hook 16 on the arm 14, although this arm may be so constructed that its hook 16 may engage the loop 17, or both legs 10 and 11 may be provided with perforating-loops, if desired.

Having thus described our invention, what we claim as new is as follows:

1. As an article of manufacture, a paper-fastener comprising a single piece of wire bent into a middle portion for holding on one side of the papers, and spring-pressure arms for holding on the other side of the papers, said middle portion being formed with a sharp-pointed perforating-loop having straight

edges and extending upward from the plane of the clip, substantially as and for the purpose described.

2. As an article of manufacture, a paper-
5 fastener comprising a single piece of wire bent into a middle portion for holding on one side of the papers, and spring-pressure arms for holding on the other side of the papers, said middle portion being formed with a sharp-
10 pointed perforating-loop having straight edges and extending upward from the plane of the clip, and bent backward from the paper-inserting end of the clip, substantially as and for the purpose described.

3. As an article of manufacture, a paper-
15 fastener comprising a middle portion for holding on one side of the papers, spring-arms for holding on the other side of the papers, one of said arms being formed with a hook, and
20 a perforating-loop formed on the middle portion arranged to be engaged by said hook, substantially as and for the purpose described.

4. As an article of manufacture, a paper-
25 fastener comprising a single piece of wire bent into a middle portion for holding on one side of the papers, and spring-pressure arms for holding on the other side of the papers, said middle portion being formed with a perforating-loop, and one of said pressure-arms being
30 formed with a hook for engaging said loop, substantially as and for the purpose described.

5. As an article of manufacture, a paper-

fastener comprising a single piece of wire bent into a middle portion for holding on one side
35 of the papers, and spring-pressure arms for holding on the other side of the papers, said middle portion being formed with a sharp-pointed perforating-loop having straight edges and extending upward from the plane
40 of the clip, and bent backward from the paper-inserting end of the clip, and one of said pressure-arms being formed with a hook for engaging said loop, substantially as and for the purpose described.

6. As an article of manufacture, a paper-
45 fastener comprising a middle portion for holding on one side of the papers, a perforating-loop formed on said middle portion and extending upwardly from the plane of the clip, and spring-arms for holding on the other side
50 of the papers, one of said arms being formed with a hook extending in the plane of the clip and arranged to engage said loop, whereby said clip may be used at will either with the loop perforating the papers, or reversely with
55 the loop extending away from the papers and not perforating the same.

In testimony whereof we affix our signatures in the presence of two witnesses.

CHARLES D. BRONSON.
EARLE F. WATSON.

Witnesses:

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J. B. HAYWARD.