

No. 815,348.

PATENTED MAR. 20, 1906.

H. E. HAWKINS.
PAPER CLIP.
APPLICATION FILED MAR. 2, 1906.

Fig. 1

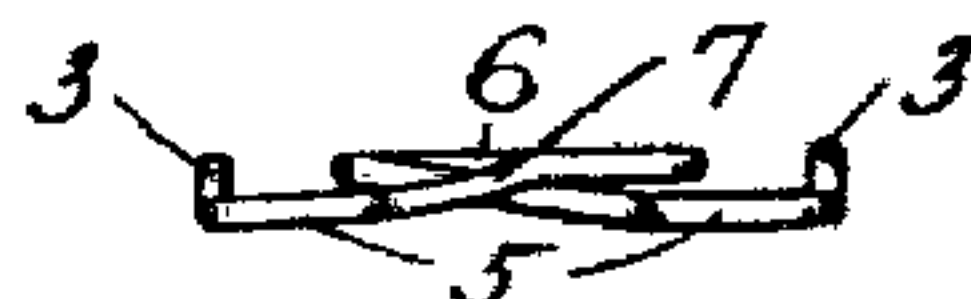
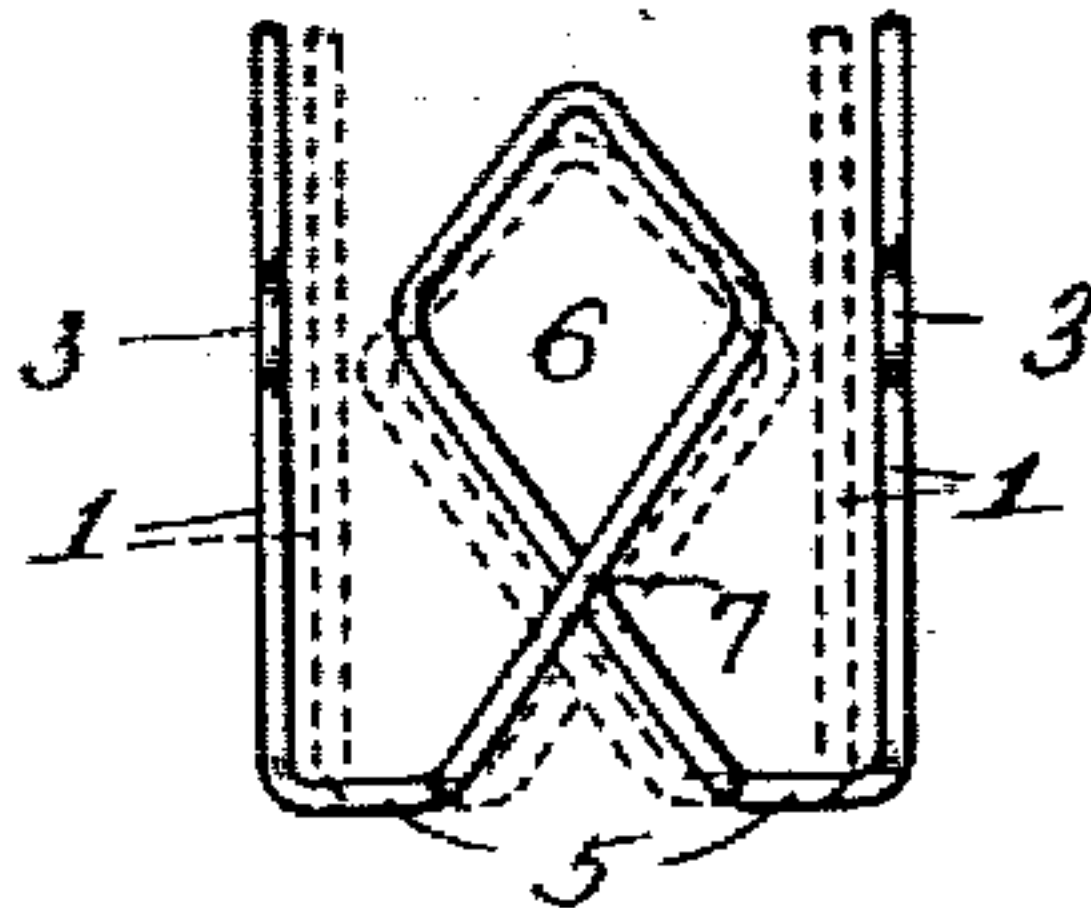


Fig. 2

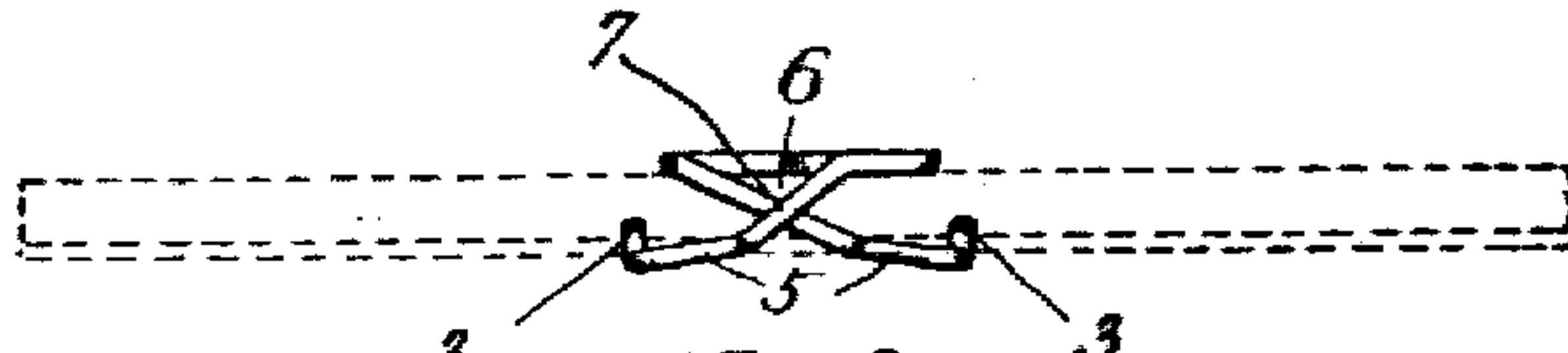


Fig. 3



Fig. 4

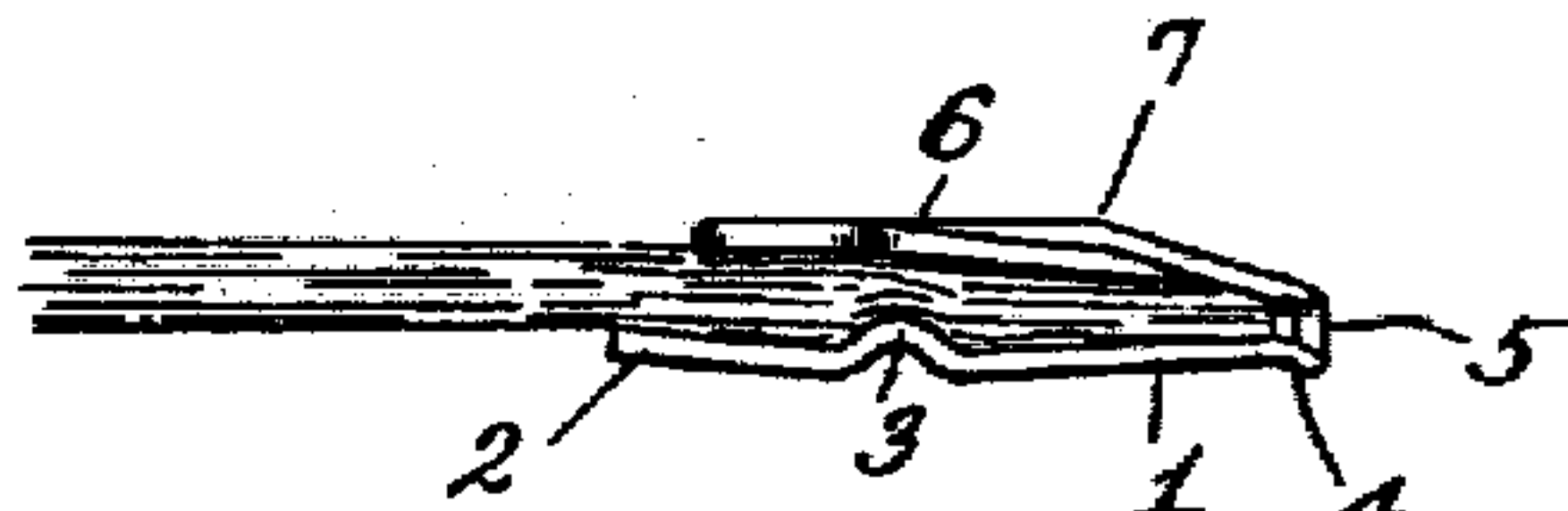


Fig. 5

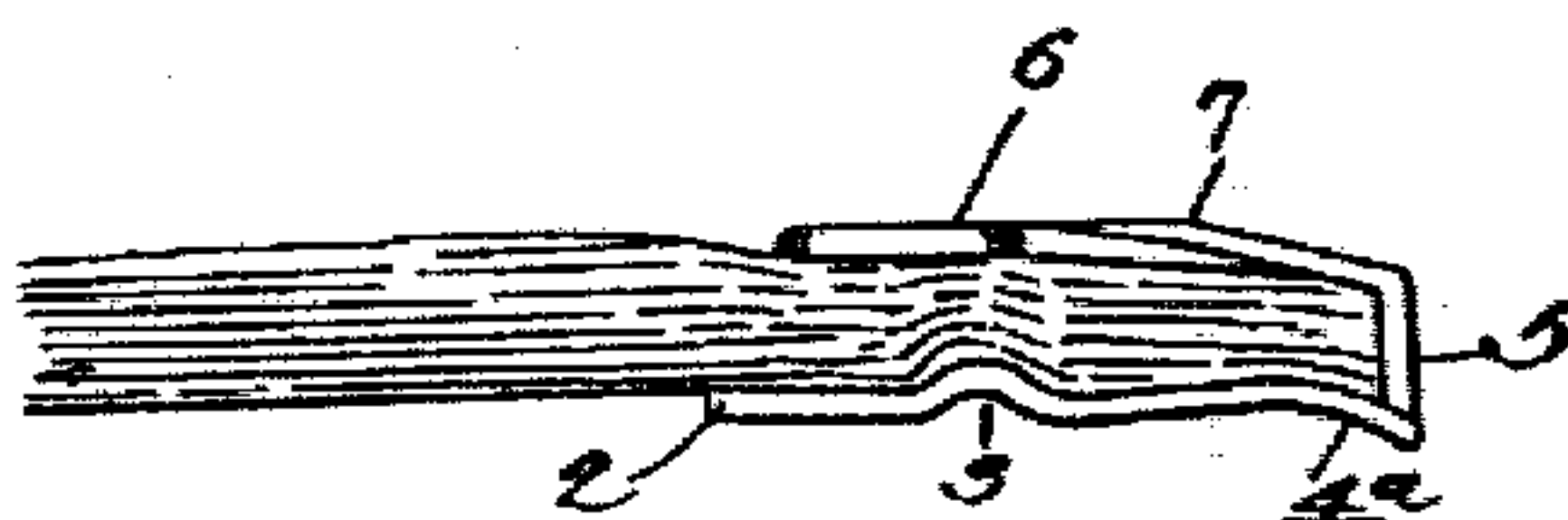


Fig. 6.

Witnesses:

R. Hamilton.

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UNITED STATES PATENT OFFICE.

HAROLD E. HAWKINS, OF KANSAS CITY, MISSOURI.

PAPER-CLIP.

No. 815,348.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed March 2, 1905. Serial No. 248 005.

To all whom it may concern:

Be it known that I, HAROLD E. HAWKINS, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Paper-Clips, of which the following is a specification.

My invention relates to improvements in paper-clips; and my object is to provide a device of this character which will reliably hold either a small or a large number of papers together without losing its resiliency or clamping power.

The invention consists in the peculiar formation of the clip, and in order that it may be fully understood reference will now be made to the accompanying drawings, in which—

Figure 1 is a plan view of the clip, showing the normal position of its clamping members in full lines and the operative position of said members in dotted line. Fig. 2 is a rear elevation of the clip, showing its clamping members in their normal position. Fig. 3 is a rear elevation of the clip, showing its members in an operative position. Fig. 4 represents a side elevation of the clip with its clamping members occupying their normal position. Fig. 5 represents a side elevation of the clip applied to a bundle of papers. Fig. 6 represents a modified form of the clip applied to a bundle of papers.

In carrying out the invention I employ a single piece of spring-wire formed into a pair of longitudinal clamping members 1, having upturned forward terminals 2 and humps or raised portions 3, located between terminals 2 and their downwardly-bent rear ends 4. Said members 1 are preferably arranged parallel to each other, as shown.

5 designates a pair of transverse members, arranged in alinement in plan view, which communicate at their outer ends with bent portions 4 and at their inner terminals with the two crossed ends 7 of a forwardly-extending clamping member 6, arranged in the form of a diamond-shaped loop, located between clamping members 1 and terminating a slight distance in the rear of terminals 2, as plainly shown in Fig. 1.

In applying the clip to a number of papers the edges of the latter are slipped in between clamping members 1 and loop 6, so that the latter will press downwardly upon said papers, while terminals 2 and humps 3 will engage the under side of said papers, and thus

reliably hold them together. The tension of the clip upon the papers is also increased by the spreading apart of the clamping members to receive said papers. This spreading expands loop 6, draws clamping members 1 toward each other, and causes the inclination of members 5, as shown by dotted lines in Fig. 1 and full lines in Fig. 3. The contraction of the loop after the clip is removed from the papers causes the other members of said clip to resume their normal positions.

The capacity of the clip may be enlarged by increasing the length of the downwardly-bent portions 4, as indicated at 4^a, Fig. 6, as the clamping members 1 and 6 may then be spread a considerable distance apart without affecting their resiliency or gripping action.

The advantages obtained in turning terminals 2 upwardly are, first, that they will reliably grip the under surface of the bundles to which the clip is attached, and, second, will not project in the way and engage another package of papers laid beside the one upon which the clip is secured.

Humps 3 add to the rigidity of clamping members 1 and also slightly crimp the papers to which the clip is attached, thus preventing said papers from accidentally slipping outwardly from between clamping members 1 and 6, and by crossing the rear ends of the latter in the manner shown in Fig. 1 its rigidity is also greatly increased, as one end reinforces the other.

From the above description it is apparent that I have produced a paper-clip which is durable, simple in construction, and thoroughly effective for the purpose intended.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A paper-clip consisting of a pair of longitudinal clamping members having downturned rear ends and humps located between said rear ends and the forward terminals of said members, transverse members communicating with said rear ends, and another clamping member arranged in the form of a loop having crossed terminals communicating with the inner ends of the transverse members.

2. A paper-clip consisting of a pair of longitudinal clamping members having upturned forward ends and downturned rear ends, transverse members communicating with said rear ends, and a diamond-shaped loop having two crossed ends communicating

with the inner terminals of the transverse members.

3. A paper-clip comprising a pair of parallel clamping members having upturned forward ends, downturned rear ends, and humps located between said forward and rear ends; transverse members communicating with the rear ends of said clamping members, and another clamping member arranged in the

form of a loop having crossed terminals communicating with the inner ends of the transverse portions. 10

In testimony whereof I affix my signature in the presence of two witnesses.

HAROLD E. HAWKINS.

Witnesses:

F. G. FISCHER,
J. MOORE.