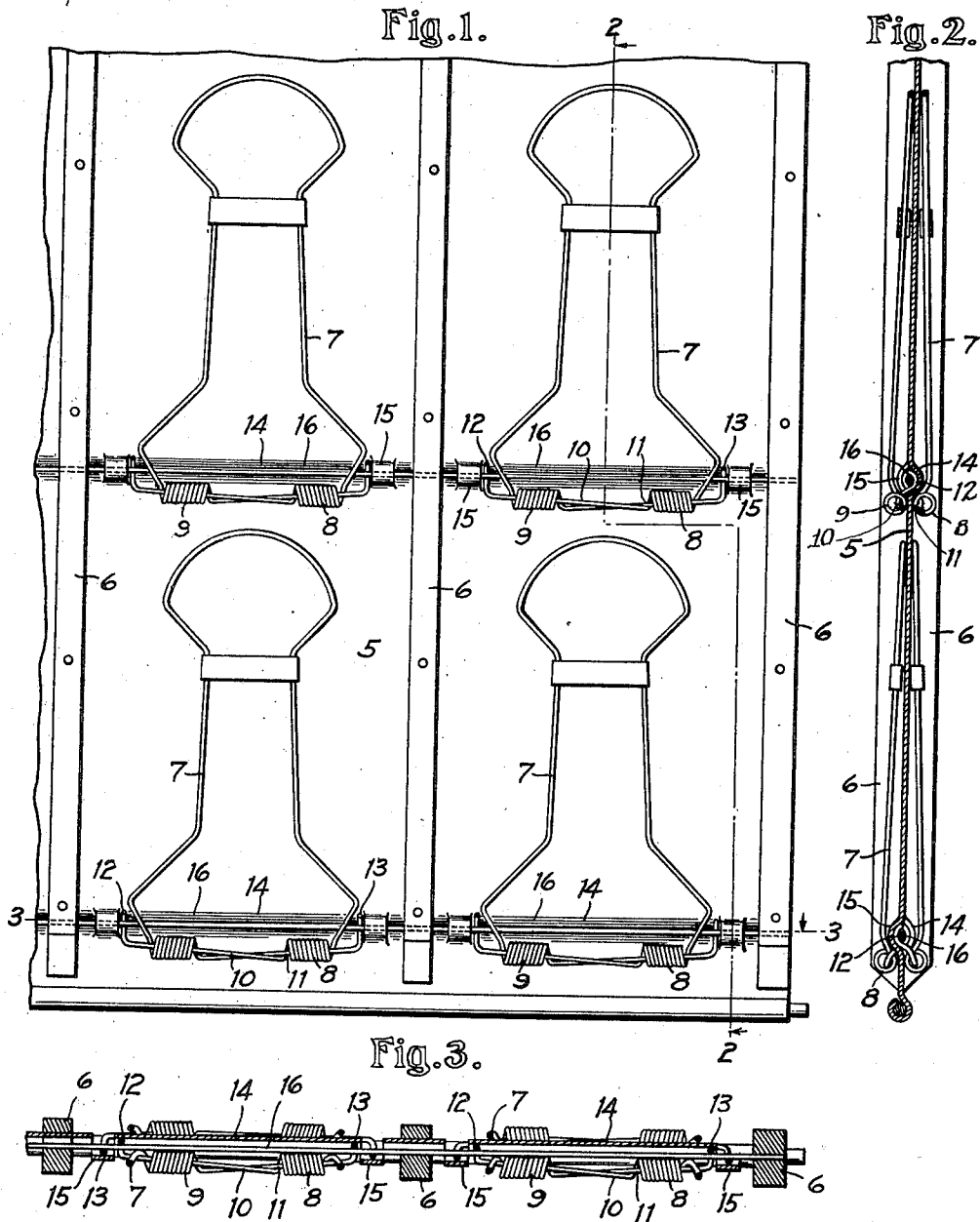


A. F. STAPLES.
 FILING DEVICE.
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1,036,740.

Patented Aug. 27, 1912.



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UNITED STATES PATENT OFFICE.

ALBERT F. STAPLES, OF BUFFALO, NEW YORK.

FILING DEVICE.

1,036,740.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed May 6, 1912. Serial No. 695,492.

To all whom it may concern:

Be it known that I, ALBERT F. STAPLES, a citizen of the United States, and resident of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Filing Devices, of which the following is a specification.

This invention relates to filing-devices of the type in which a spring-clip is employed to secure bills, or other papers, against a flat body or base-member.

The object of the invention is to produce a filing-device, of the type in question, in which the spring-clip is attached to the body of the device in a secure manner and by a construction and arrangement which is inexpensive to manufacture and convenient in operation.

To the foregoing ends the invention consists in the filing-device hereinafter described as it is defined in the following claims.

In the accompanying drawings:—Figure 1 is a front-elevation of a portion of a filing-device embodying the present invention; Fig. 2 is a vertical section on the line 2—2 in Fig. 1; and Fig. 3 is a horizontal section on the line 3—3 in Fig. 1.

The invention is illustrated as embodied in a filing-device adapted for use as one of the leaves of an account-register or filing-cabinet. As is usual in such constructions, the body or base-member of the device is a plate 5 of thin sheet-metal, which is stiffened and divided into vertical columns by stiffening-members 6. Each column is occupied by a plurality of wire spring-clips, of which the general form, as illustrated in the drawings, is substantially similar to that disclosed in Letters Patent of the United States, No. 1,031,392, granted to me July 2, 1912.

Each clip comprises a loop-shaped member 7 terminating, at its lower ends, in similar oppositely-disposed resilient coils 8 and 9. From the coils the wire of which the clip is formed is continued in the form of straight members 10 and 11, respectively, the members 10 and 11 being passed in opposite directions through the coils 9 and 8, respectively, and terminating outside of the coils in upwardly-directed hooks 12 and 13.

The present invention resides particularly in the manner in which the spring-clip just described is attached to the body 5. For this purpose a horizontal bead 14 is impressed in the sheet-metal, thus forming a

corresponding groove, and, at suitable intervals, this bead is interrupted and the metal pressed in the opposite direction so as to form short forward projections 15 in line with the groove. The construction just described permits, as shown in Figs. 2 and 3, the introduction of a straight wire 16 in the groove, the wire being held in place by the members 15 and lying substantially in the plane of the body. To secure the clips on the front of the body the hooked extremities 12 and 13 are introduced between the wire 16 and the body, so that the hooks lie in the groove and close against the members 15. The torsional action of the coils 8 and 9 tends to maintain the hooks in this position, while the members 15 prevent lateral displacement of the clip, and the clip is thus securely held in place. It may readily be removed, however, for the purpose of adjustment or replacement, by twisting the members 10 and 11 sufficiently to disengage the hooks from the wire 16. At the back of the body clips similar to those at the front may be employed. These clips are secured in place by engaging their hooked extremities with the wire 16 directly behind the members 15, as shown in Figs. 2 and 3, and thus the rear clips are securely retained against the body while prevented from lateral movement by the engagement of their hooked ends with the ends of the interrupted portions of the bead 14.

In previous devices of the type in question it has been customary to secure the clip to the body by drilling the latter and engaging the hooked ends of the clip in the perforation so produced. In such a construction the torsional action tends to distort the metal adjacent the perforation unless thick and stiff metal is employed, and there is also a tendency, where the clip terminates in straight portions like the members 10 and 11 illustrated, for the clips to be laterally displaced, since the torsional action causes the hooked ends to be drawn into the perforations to such an extent as to permit the straight portions to pass through the body. The present construction avoids these disadvantages, since the wire 16 constitutes a secure anchorage for the hooked ends of the clips, while the ends of the members 15 and the interrupted portions of the bead 14 effectually prevent lateral displacement of the clips. For this reason, and because of the stiffening action of the bead

14, a comparatively thin sheet-metal may be employed for the body, and the present construction has the further advantage that it avoids the necessity of drilling holes in the body, thus facilitating the manufacture of the device.

It will be apparent that the construction above described is adapted for use in filing-devices of various types and with various forms of spring-clips, and that the invention is not, in general, limited to the embodiment thereof hereinbefore described and illustrated in the accompanying drawings, but may be embodied in various other forms within the nature of the invention as it is defined in the succeeding claims.

I claim:—

1. A filing-device having, in combination, a body provided with a recess and with a wire fixed in said recess, and a spring-clip having a hooked end seated in said recess and engaging said wire to retain the clip upon the body.

2. A filing-device having, in combination, a sheet-metal body impressed from opposite sides to form alining recesses, a wire seated in said recesses, and spring-clips on both sides of the body having hooked ends seated in said opposite recesses and engaging said wire to retain the clips upon the body.

3. A filing-device having, in combination, a sheet-metal body provided with an impressed bead interrupted at intervals by oppositely-pressed portions, a wire seated in the recesses formed by said bead and said oppositely-pressed portions, and a spring-clip having hooked ends seated in the recesses of said bead and retained therein by engagement with said wire, said hooked ends engaging said oppositely-pressed portions to prevent lateral movement of the clip.

4. A filing-device comprising a sheet-metal body, a wire extending along said body and passing through the same at intervals so as to have portions lying alternately against opposite surfaces of the body, and spring-clips having hooked ends seated between the wire and the adjacent surface of the body.

5. A filing-device comprising a body, a wire fixed adjacent one surface of the body, and a spring-clip having hooked ends seated between the wire and the adjacent surface of the body and maintained in engagement with the wire through the resilient action of the clip.

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