Feb. 1, 1927. **1,615,827**

C. BRISTOW

PAPER SECURING CLIP

Filed Dec. 4, 1925

FIG. 1

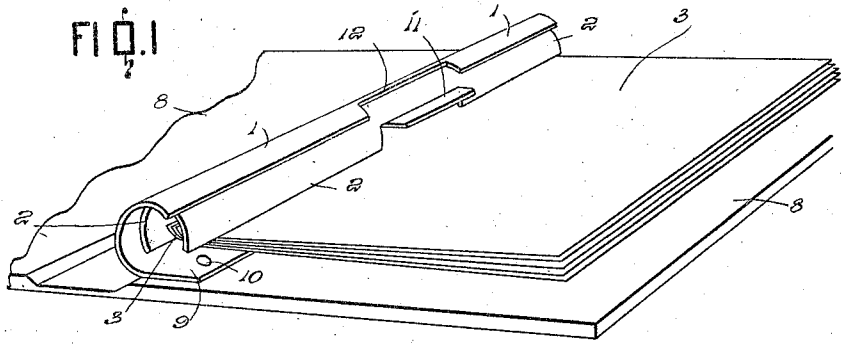


FIG. 2

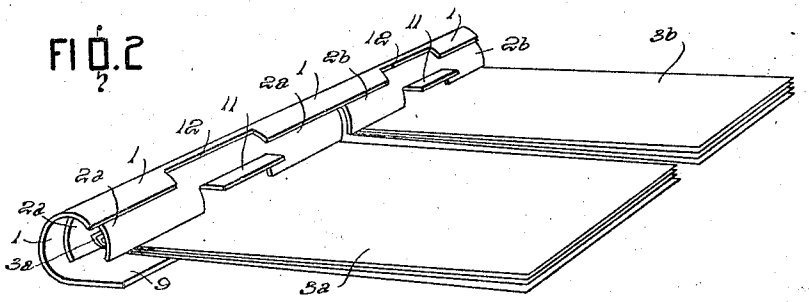


FIG. 3

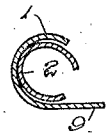


FIG. 4

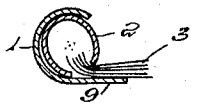
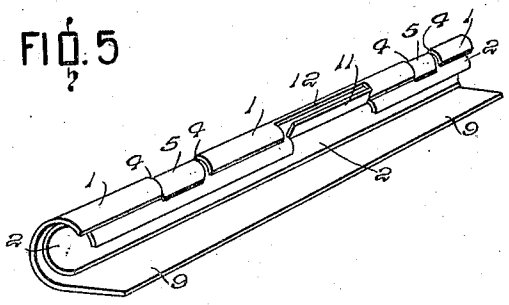


FIG. 5



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Patented Feb. 1, 1927. 1,615,827

UNITED STATES PATENT OFFICE.

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PAPER-SECURING CLIP.

Application filed December 4, 1925, Serial No. 73,117, and in New Zealand April 22, 1925.

This invention relates to a clip for detachably securing papers, the device being applicable for use either by itself as a paper-clip, or attached to a suitable cover or backing, such as that of a counter-book or file, to serve as a means of securing the pages or papers thereto.

It is the object of the present invention chiefly to provide an article of this nature of novel, simple and effective construction, of neat and sightly appearance and capable of being rapidly and inexpensively manufactured.

In carrying this object into effect the construction consists essentially of a pair of members each of substantially C-shaped cross-section, one being receivable within the other.

Each of the said members will therefore have an opening extending longitudinally throughout its length and which openings are adapted to be placed in register to receive the papers, the said members being so formed that when one of such is rotated or turned axially in relation to the other to carry their said openings out of register to the required extent to clamp their contained pages or papers, the periphery or outer surface of the inner member will bear tightly against the inner circumference or bore of the outer member, thereby causing diametrical springing of one or both of such members which will produce a frictional grip tending to retain the said members in any such partly registering position in which they may be placed.

In order that the nature of the invention and its construction may be clearly understood, it will now be fully described and explained with reference to the accompanying sheet of drawings, in which:—

Fig. 1 is a perspective view showing a clip embodying the preferred form of the construction and applied as a means for securing the pages within the cover of a counter-book,

Fig. 2 is a perspective view of a clip of similar construction to that of Fig. 1, but in which the inner member consists of two portions or lengths arranged end-for-end to independently receive two sets of papers,

Fig. 3 is a cross-section through the said clip shown in Figs. 1 or 2 in its open or registering condition in readiness to receive the papers,

Fig. 4 is a similar cross-section showing the clip in the position in which it grips the papers,

Fig. 5 is a perspective view of a clip illustrating a modified form of the construction.

The construction comprises a member 1 of substantially C-shaped cross-section and within which is received a second member 2 also of substantially C-shaped cross-section, the arrangement being such that the said members may be placed with their longitudinal openings in register, as in Figs. 3, and 5 so that pages or papers, as 3 may be inserted in such openings, after which one of such members may be turned axially in relation to the other so as to carry its opening out of register with the opening of the companion member to the required extent to cause the said papers to be clamped between such members, as shown in Figs. 1, 2 and 4.

The said members are so constructed also that when turned into their said partly registering position to clamp the papers such members will bind or frictionally engage each other with a suitable degree of tightness to retain them in the said clamping position.

In the preferred form of the construction illustrated in Figs. 1, 2, 3 and 4 this frictional grip is attained by making the periphery or external surface of the inner member 2 slightly elliptical in form with its major axis extending through the said openings while the inner surface or bore of the other member 1 may take the form either of an incomplete circle or an ellipse with its major axis extending through its opening, the said major axis of the member 2, being slightly greater than the diameter or major axis of the bore of the member 1.

The arrangement is such that when placed with their openings in register, as in Fig. 3, the said members will be more or less free but upon one of such members being turned relative to its fellow member so as to carry the openings out of register to clamp the papers, as in Fig. 4, the contacting surfaces

of such members will bear tightly against one another thereby causing diametrical springing of one or both of such members and so producing the frictional grip above mentioned.

In a modified form of the construction, as shown in Fig. 5, the external member 1 is formed with a plurality of slits 4 extending circumferentially side-by-side for a desired distance the portions 5 of such member between pairs of slits being bent towards the member 2 to constitute fingers or spring parts to exert the said frictional grip upon such member 2 which in this case may be made circular.

In cases where the member 2 is circular the said frictional grip will of course occur uniformly in all positions in which the said members may be placed.

If so desired the inner member may consist of two or more portions or sections as 2^a—2^b, Fig. 2, such sections being arranged end for end within an outer member 1 in order that each of such sections may be operable independently of its fellow members for the purpose of clamping a single set of papers or separate sets as 3^a—3^b.

In cases where the clip is intended for use in securing pages to a backing or cover as 8, Fig. 1, the member 1 will be provided with means whereby it may be attached to such backing or cover. In the preferred form of the construction this purpose is effected by producing the portion of such member along one side of its said opening, outwardly for a suitable distance to provide a flange 9 which may be attached by rivets as 10, or other means to such backing or cover.

Suitable means will also be provided for enabling the member 2 to be rotated relative to the member 1 as required for the purpose of bringing the said openings into and out of registration as already explained. In the preferred form of the construction the said means will be constituted by producing a portion of such inner member, at one side of its opening, outwardly to provide one or more lugs as 11, adapted to be grasped by the fingers, such lug or lugs being receivable in a corresponding notch or notches 12 formed in the member 1 to permit the desired amount of rotation.

The said members 1 and 2 may be conveniently formed from sheet metal by cutting and bending them to the required shape, such members being made separately from one another and being assembled by the simple act of slipping one into place within the other without the use of tools or adjustments of any kind.

In operation the two members will be place with their openings in register, as in Figs. 3 and 5 to permit of the insertion of the papers or pages. The member 2 will then be rotated relative to the member 1 to carry the said openings somewhat out of register thereby causing the papers or pages to be clamped between the edge of the member 2 at one side of its opening and the portion of the member 1 at the opposite side of its opening, as shown in Figs. 1, 2 and 4, while the frictional grip already mentioned will serve to retain the parts in this position.

The clip may be constructed to clamp any desired number of papers from a single sheet to a predetermined maximum.

I claim:

1. A paper-securing clip, comprising a pair of longitudinally split, elongated, hollow members disposed one within the other and rotatable relatively to each other to carry their longitudinal openings into and out of register, the periphery of the inner member being elliptical with its major axis extending through its longitudinal opening and slightly greater than the diameter of the bore of the outer member thereby to cause portions of said periphery to bear tightly against said bore and produce diametrical springing of the members when turned relatively to place their said openings in their partly registering position.

2. A paper-securing clip as defined in claim 1 characterized in that the outer member is produced outwardly at one side of its said opening to constitute a flange for attachment to a cover or backing.

3. A paper-securing clip as defined in claim 1 characterized in that the inner member is formed with one more lugs to be grasped for the purpose of turning such member and in that the outer member is formed at one side of its said opening with a notch or notches to receive said lug or lugs and permit said inner member a desired amount of rotary movement.

In testimony whereof I have signed at the city of Christchurch, this 6th day of November, 1925.

CHARLES BRISTOW.