

No. 648,002.

Patented Apr. 24, 1900.

E. A. TRUSSELL.

ORDER HOLDER.

(Application filed Feb. 27, 1899.)

(No Model.)

Fig. I.

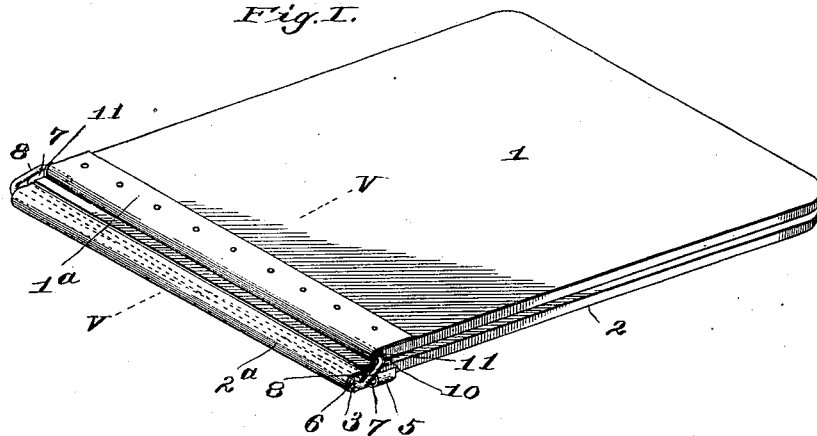


Fig. II.

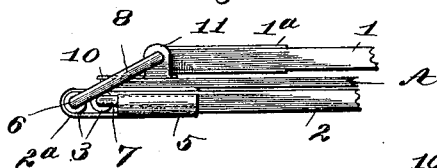


Fig. III.

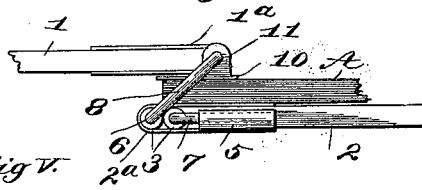


Fig. IV.

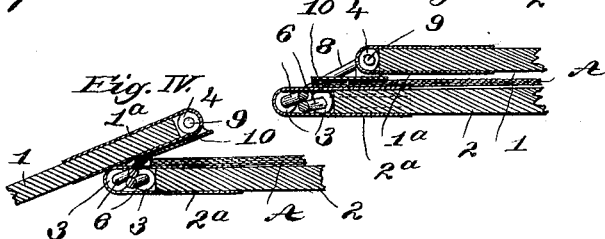


Fig. V.

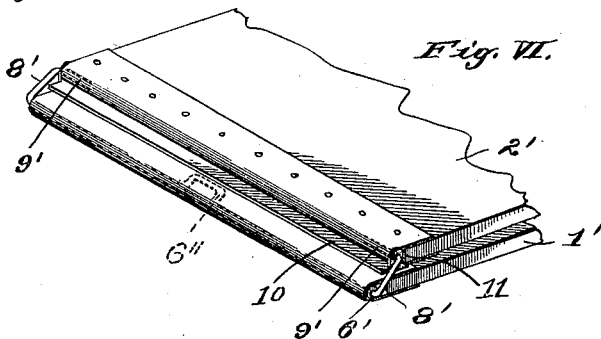


Fig. VI.

WITNESSES

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UNITED STATES PATENT OFFICE.

EMORY A. TRUSSELL, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE SIEBER & TRUSSELL MANUFACTURING COMPANY, OF SAME PLACE.

ORDER-HOLDER.

SPECIFICATION forming part of Letters Patent No. 648,002, dated April 24, 1900.

Application filed February 27, 1899. Serial No. 706,987. (No model.)

To all whom it may concern:

Be it known that I, EMORY A. TRUSSELL, a citizen of the United States, residing at the city of St. Louis, in the State of Missouri, have

invented certain new and useful Improvements in Order-Holders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to that class of sheet-holders that comprise a pair of covers adapted to receive and confine loose sheets of paper between them by virtue of a spring connection which permits of the covers being spread apart for the insertion or withdrawal of the papers.

My invention consists in the novel features of construction of such device to be hereinafter fully described and claimed.

Figure I is a perspective view of the holder. Fig. II is an enlarged edge view of the rear portion of the holder, showing the device in closed position. Fig. III is an enlarged edge view showing the holder open. Fig. IV is a sectional view showing the upper cover fulcrumed on the lower cover in the position assumed when papers are to be inserted or removed. Fig. V is a sectional view taken on the line V V, Fig. I. Fig. VI is a perspective view showing a modified construction of spring connection.

2 designates the lower cover, and 1 the upper cover, of the holder. These covers are provided, respectively, with binding-strips 2^a and 1^a, applied over their rear ends, said strips being preferably of metal. The binding-strips do not fit closely to the rear edges of the covers; but pockets are formed within said strips.

3 designates short bushings seated in the pocket in the binding-strip 2^a, there being two of said bushings at each end of said strip.

4 designates short bushings in the pockets of the binding-strip 1^a, there being but one of said bushings at each end of the strip.

5 designates tubular ears formed from extensions at the ends of the binding-strips 2^a. These ears are formed by curling the said extensions inwardly to produce openings there-through extending parallel with the side edges of the cover 2.

6 designates torsional springs, two in num-

ber, which connect the covers 2 and 1 to each other. The springs are in the form of rods or wires and extend entirely through the pocket in the binding-strip 2^a of the lower cover, one end of each spring being secured in an ear 5 and the opposite end seated in one of the bushings 4 of the upper cover at the opposite edge of the holder. To more particularly describe the construction and attachment of springs, each spring has a bent end 7, that is secured in one of the ears 5, and from which bent end it extends through the pocket in the binding-strip 2^a to the opposite edge of the cover 2. The spring is formed with a bent portion 8 at the last-named location, extending parallel with the side edge of the holder, and is formed with a bent and inturned end 9, that seats in the adjacent bushing 4 in the pocket contained by the binding-strip 1^a of the upper cover. The second spring is a counterpart of that described and is connected in a similar manner, the only difference being that its end attachments are the reverse of the first—i. e., the end 7 of the second spring is secured in the ear 5 at the opposite edge of the cover 2 from that in which the corresponding end of the first-named spring is seated, and the end 9 is seated in the bushing 4 at the side of the holder bearing the ear 5, containing the end 7 of the first spring. The springs cross each other within the binding-strip 2^a, (see dotted lines, Figs. I and V,) so that the body of each lies in the rear bushings 3, contained by the binding-strip 2^a, so that they are on a line with each other where they enter or emerge from said strip.

In applying the springs to the covers they each first have the bent portion 8 and bent end 9 formed, the remainder of the springs being left straight. The straight portion of each spring is then passed through the pocket in the binding-strip 2^a, each spring entering an outer bushing 3 and crossing and extending to the inner bushing 3, through which it passes. The ears 5 being open, the ends 7 are each twisted to the rear of the adjacent bent portion 8 of the mating spring and then brought forward to effect a twist in the body of the springs, and the ends 7 are seated in the ears 5, when said ears are closed to confine them.

In the use of the holder the upper cover 1 is swung on the pivoting ends 9 of the springs, and being brought into the position shown in Fig. IV said upper cover fulcrums on the rear end of the lower cover 2 to cause the torsion of the springs 6 and the separation of the covers for the insertion or withdrawal of papers. On swinging the upper cover back into normal position the torsion of the springs causes the rear end of the upper cover to be brought back into contact with the papers A to confine them against the lower cover.

10 designates a plate provided with ears 11, by which it is pivoted to the bent ends 9 of the springs 6. This plate is designed to serve as a rub-plate for the rear end of the upper cover 1, so as to provide a flat contacting surface, carried by said upper cover, to bear against the papers A without frictional rubbing thereagainst. In the absence of such a plate the rear end of the upper cover rubs directly upon the papers and frequently causes them to become displaced in inserting or withdrawing sheets of paper.

In Fig. VI, I have shown a modified form of construction, in which 1' and 2' designate the covers, joined by a single spring 6'. This spring is seated in the binding-strip of the lower cover and is provided with a central loop 6'', that prevents it from turning within the binding-strip, although the spring is capable of torsioning between said loop and the bent portions 8'. The bent ends 9' are seated in the binding-strip of the upper cover in similar manner to that described in connection with the main form of holder.

I claim as my invention—

1. In an order-holder, the combination of a pair of covers, a torsional-spring connection joining said covers and a rub-plate having ears by which it is pivotally connected to said spring connection, substantially as described.

2. In an order-holder, the combination of a pair of covers, a torsional-spring connection joining said covers and a rub-plate having ears by which it is pivotally connected to said spring connection, said spring connection having the body thereof located in a pocket at

the rear of one of said covers and having pivot ends seated in the rear end of the other cover, substantially as described.

3. In an order-holder, the combination of a lower cover having a pocket at its rear end, a pair of torsional springs having the bodies thereof located in said pocket and provided exterior of said pocket with pivot ends, a second cover in the rear end of which said pivot ends are seated, and a rub-plate having ears by which it is pivotally connected to said pivot ends, substantially as described.

4. In an order-holder, the combination of a lower cover having a pocket at its rear end, bushings in said pocket, a pair of torsional springs extending through said pocket and seated in said bushings, said springs being provided with bent pivot ends, an upper cover having bushings in its rear end in which the pivot ends of said springs are seated and a rub-plate having ears by which it is pivotally connected to said pivot ends, substantially as described.

5. In an order-holder, the combination of a pair of covers, a spring connection joining said covers, and a rub-plate loosely connected to one of said covers and located between the binding-surfaces of the two covers, substantially as described.

6. In an order-holder, the combination of a pair of covers, a spring connection joining said covers, and a rub-plate having ears by which it is pivotally connected to said spring connection, said rub-plate being arranged between the binding-surfaces of said covers, substantially as described.

7. An order-holder comprising a cover having a pocket, a cover having a pocket and tubular ears located at the ends of the pocket, and a pair of springs extending through one of the pockets each having a bent and in-turned end engaging the other pocket and a bent end engaging a tubular ear; substantially as described.

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In presence of—

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