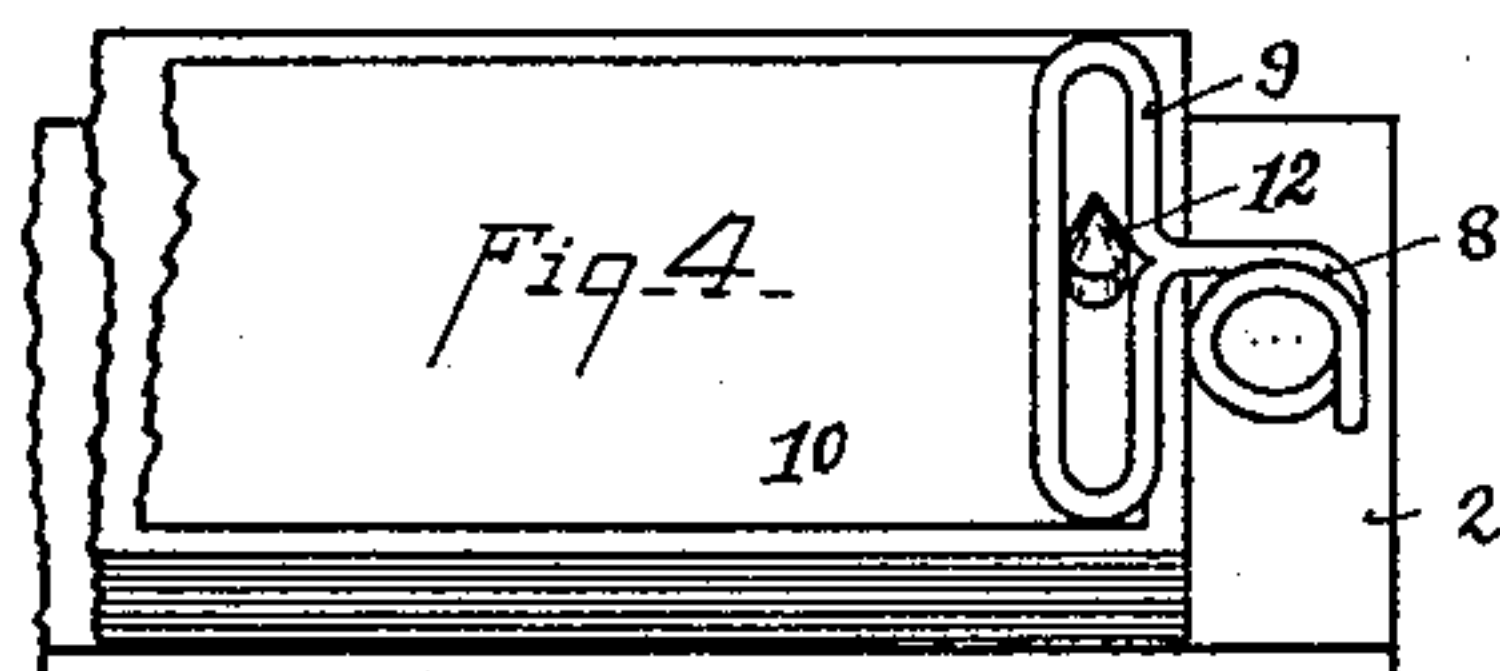
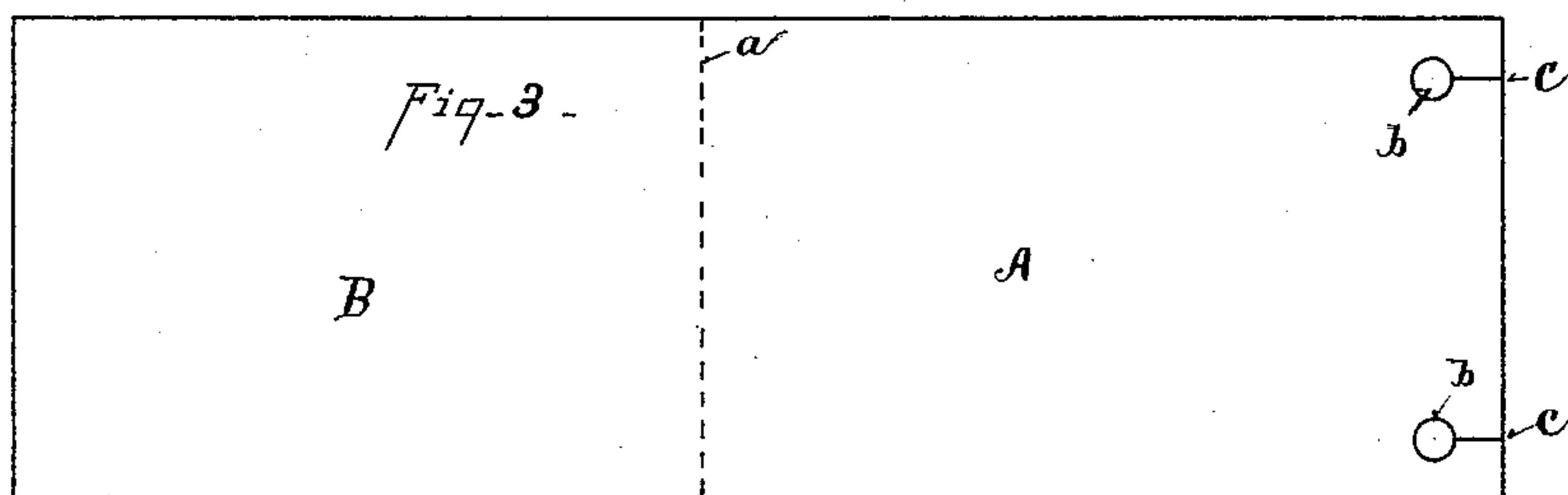
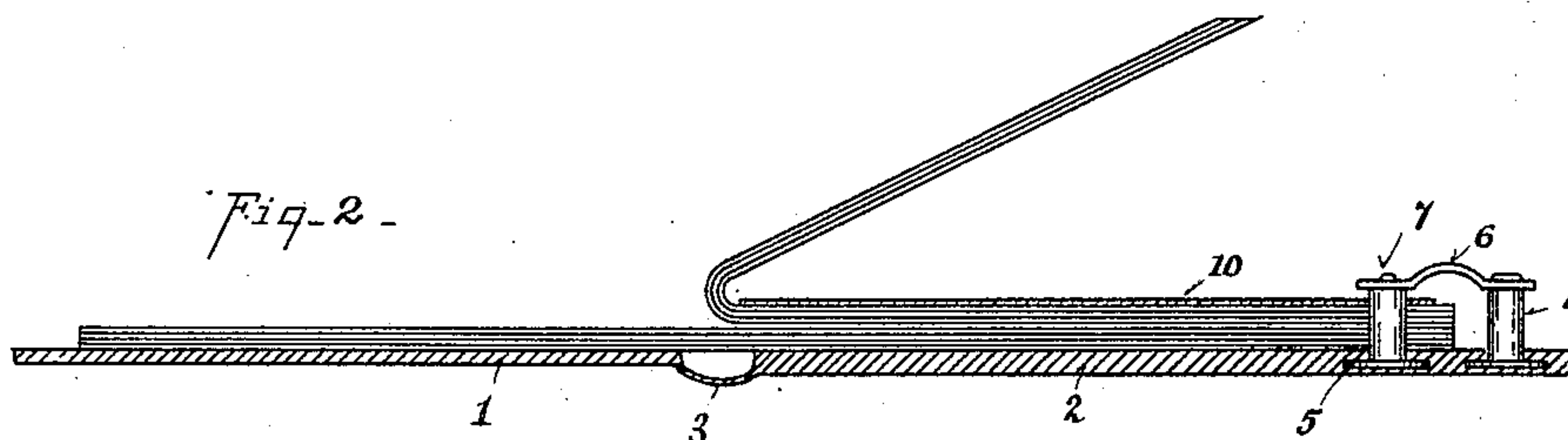
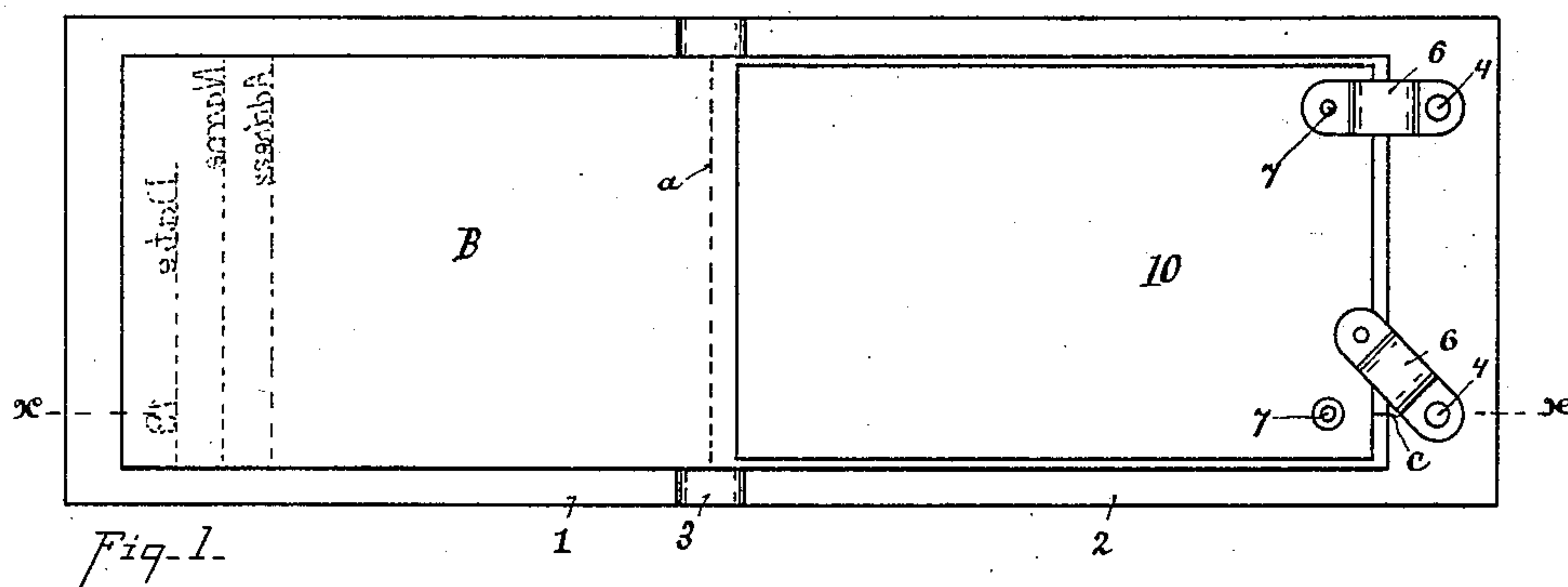


(No Model.)

L. G. REYNOLDS.
COPYING PAD AND BINDER.

No. 467,018.

Patented Jan. 12, 1892.



WITNESSES:

P. Simmons,
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ATTORNEYS

UNITED STATES PATENT OFFICE.

LEWIS G. REYNOLDS, OF DAYTON, OHIO.

COPYING-PAD AND BINDER.

SPECIFICATION forming part of Letters Patent No. 467,018, dated January 12, 1892.

Application filed February 7, 1891. Serial No. 380,676. (No model.)

To all whom it may concern:

Be it known that I, LEWIS G. REYNOLDS, a citizen of the United States, and a resident of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Skeleton Binders and Copying-Pads, of which the following is a specification.

The object of my invention is to provide a device for copying orders, sales, memorandums, &c., which will be convenient and cheap, and which can be readily connected and detached from folding covers, which are constructed so as to form a skeleton binder, so that the bunch or series of leaves may be renewed at pleasure.

The various features of my invention will be fully set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a top plan view of the preferred form of my improvement. Fig. 2 is a section on line *x x*, Fig. 1. Fig. 3 is a plan view of one of the leaves. Fig. 4 is a modification of Fig. 1.

1 2 represent the leaves of the cover, which are connected together by the flexible back 3. The cover 2 is preferably made of two thicknesses of binder's board, with rivets 4 5 connected thereto by having the heads rest between the two binder's boards and the pins or posts thereof projecting up through, forming attaching devices of the binder. In this preferred form the rivets are shown as large and form attaching-posts. Upon each rivet 4 is attached a spring 6, which is detachably connected to the pin 7 of the post 5. The springs are adapted to readily be disengaged and turn, as shown in Fig. 1.

A B represent one of the series of leaves forming the block or bunch. It is perforated at *a* so that it can be readily torn apart.

b represents eyelet-holes pierced through the paper, and *c* slits running from the edge of the paper to the said eyelet-holes *b*.

In the modification shown in Fig. 4, 8 represents a spring which is connected to the cover 2. 9 represents a pressure-foot formed by a loop in the free end of said spring.

12 represents the pin which holds the pad. In this construction the pin will pierce the

paper without having perforations therein, and, being small, will allow a single sheet to be torn off readily without slitting, and the flexible spring 8 will hold the series of leaves together against ordinary strains.

The operation is as follows: A series or bunch of loose leaves eyeleted and slitted as described is placed in position on the pins or posts and held in position, as in Fig. 1, by the keeper-springs 6 and in Fig. 4 by the keeper 9. The carbon or copying paper 10 is detachably connected to the block in the same manner as the leaves. The end B of the sheet is folded over at the line of perforations *a* onto the carbon and writing thereon is transferred by the carbon to the under half A of the sheet. The whole sheet is readily detachable by a slight pull and duplicate copies are obtained.

In the preferred form shown in Figs. 1 and 2 the construction of the covers or leaves is very durable and the block or series of leaves readily detachable one at a time. One of such covers will wear for a long time. It may be folded and carried in the pocket, and when the carbon, which is fragile, is torn or worn out it is readily replaced independent of the leaves. If the end of the carbon-sheet attached to the post 5 is torn or worn off, it can be taken off, holes pierced in the opposite end, and attached in position, so that the loss or wearing out of the carbon is of trivial consideration in the use of my invention herein described.

An inferior mode of making the skeleton binder would be to use but one post or pin in the center and have an india-rubber band stretched around the carbon and cover 2 in front of the post. This would allow the cover 1 to be folded over on cover 2 and the leaves readily detached in series or singly; but the same will not be as convenient, as the last series of leaves would not be held as firmly as the full series.

Having described my invention, what I claim is—

1. A skeleton binder formed of leaves 1 and 2, flexibly hinged together, one or more posts attached to cover 2, with the flexible spring attached to cover 2 outside of the block and projecting forward over the leaves of the block, substantially as specified.

2. A skeleton binder formed of leaves 1 and 2, flexibly hinged together, one or more posts attached to cover 2, with a flexible spring attached to cover 2 outside of the block and projecting forward and engaging with the pin 5 of the posts 5, substantially as specified.

3. A skeleton binder formed of leaves 1 and 2, flexibly hinged together, one or more attaching posts or pins connected to the outer end of the cover 2, in combination with a series of leaves A B, having transverse perforations *a*, said leaves extending across the hinged part of the binder-leaves and detachably connected to the post or posts, substantially as specified.

4. A skeleton binder and copying-pad formed of the cover-leaves 1 and 2, flexibly hinged together, one or more attaching posts 5 at the outer end of the cover, a series of sheets A B, attached to the posts, and the copying-paper 10, secured to the posts above the sheets A and over which sheets B fold, substantially as described.

5. A copying-pad composed of the cover,

one or more posts or pins 5, attached to one end thereof, a series of folding sheets A B, having a line of perforations *a* and the ends of sheets A pierced with open eyelet-holes, and copying-paper connected with the post or posts above the series of sheets A and over which the sheets B are folded, which sheets are detachable from the posts or pins, substantially as described.

6. A copying book or pad formed of a series of sheets A B, having a line of perforations *a* and one or more open slotted eyelet-holes *b* at the end of leaves A, detachably secured to one or more posts attached at one end of the cover, and the carbon-paper secured above the sheets A, substantially as specified.

In testimony whereof I have hereunto set my hand.

LEWIS G. REYNOLDS.

Witnesses:

T. SIMMONS,
C. W. MILES.