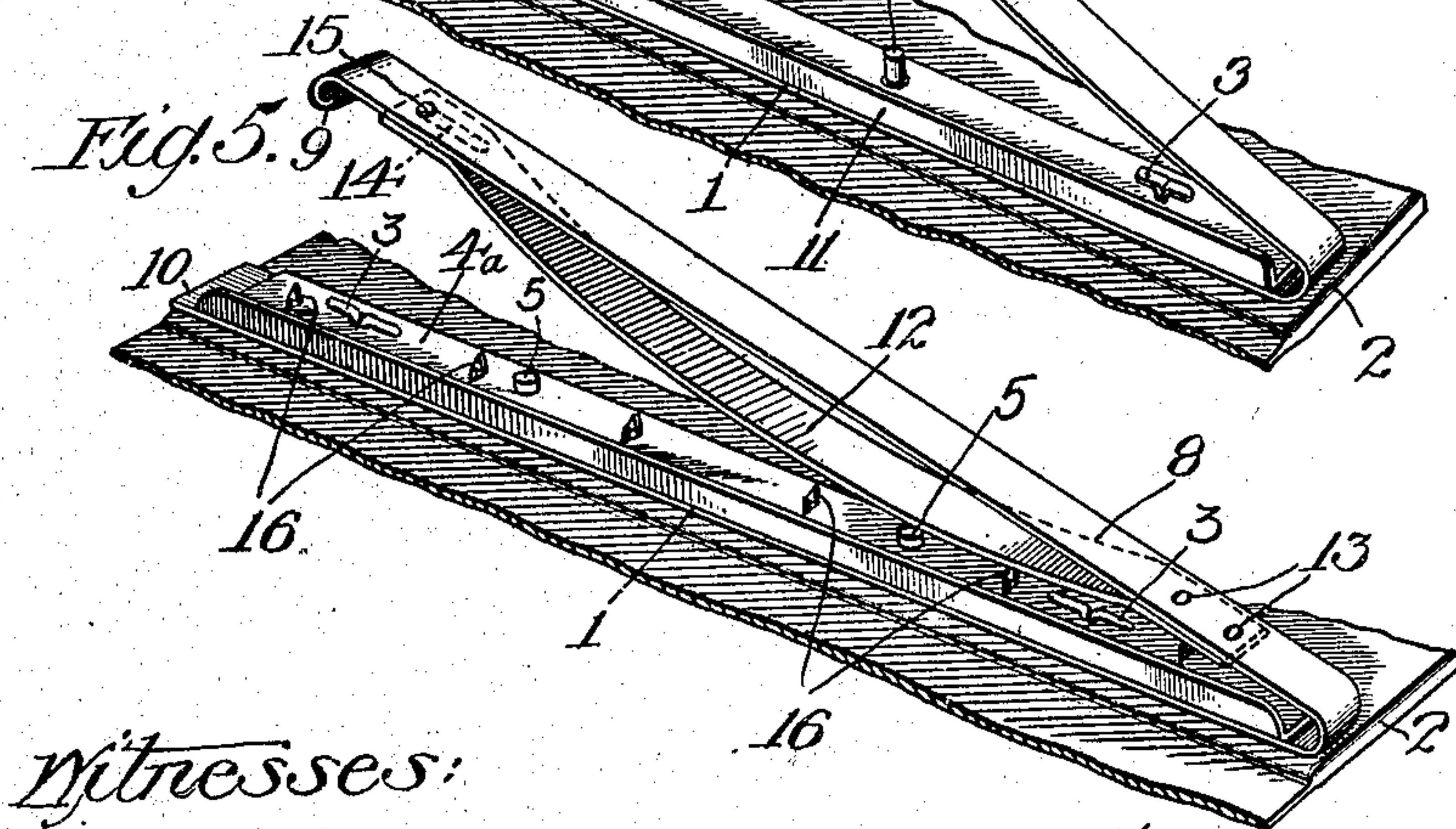
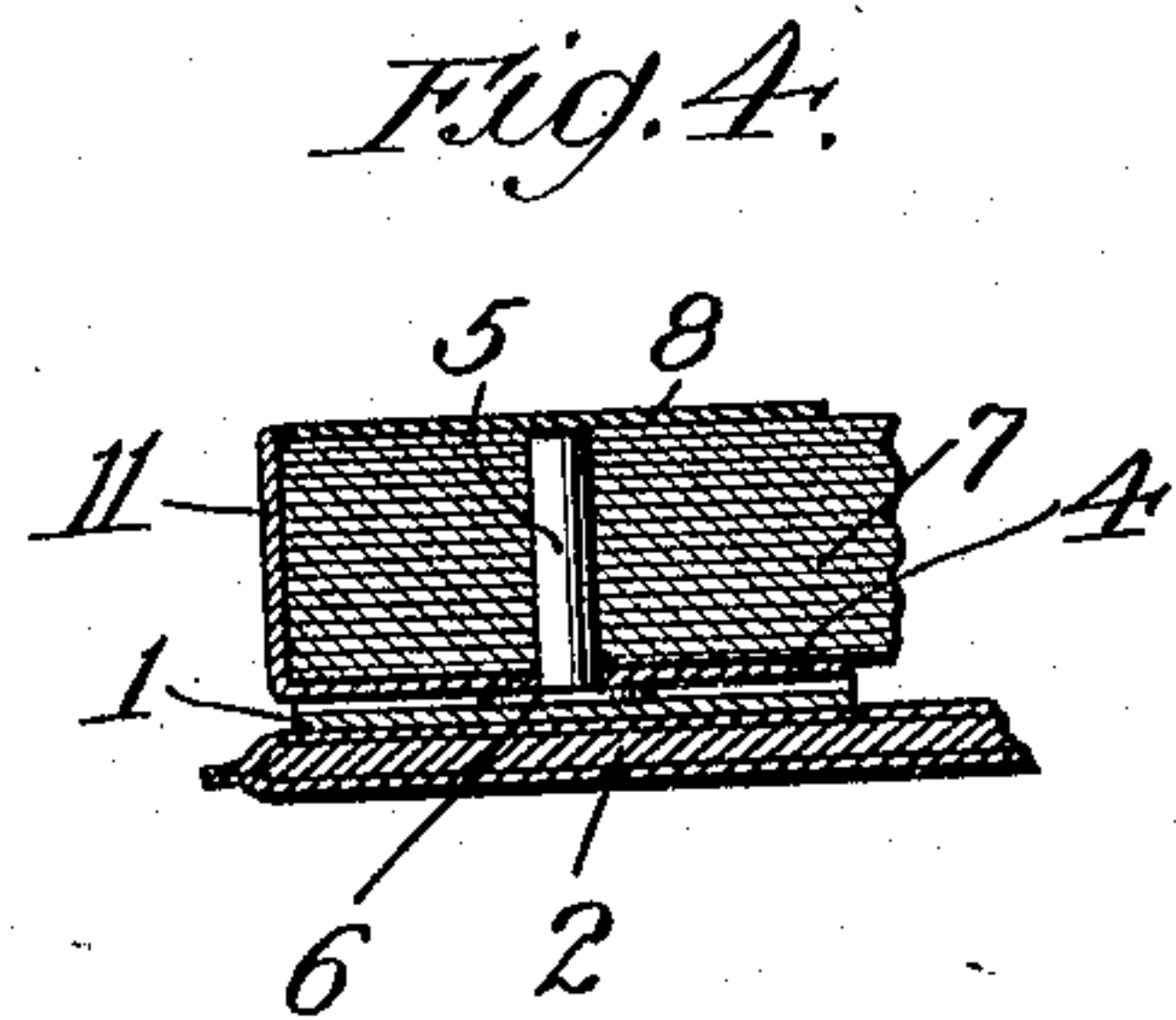
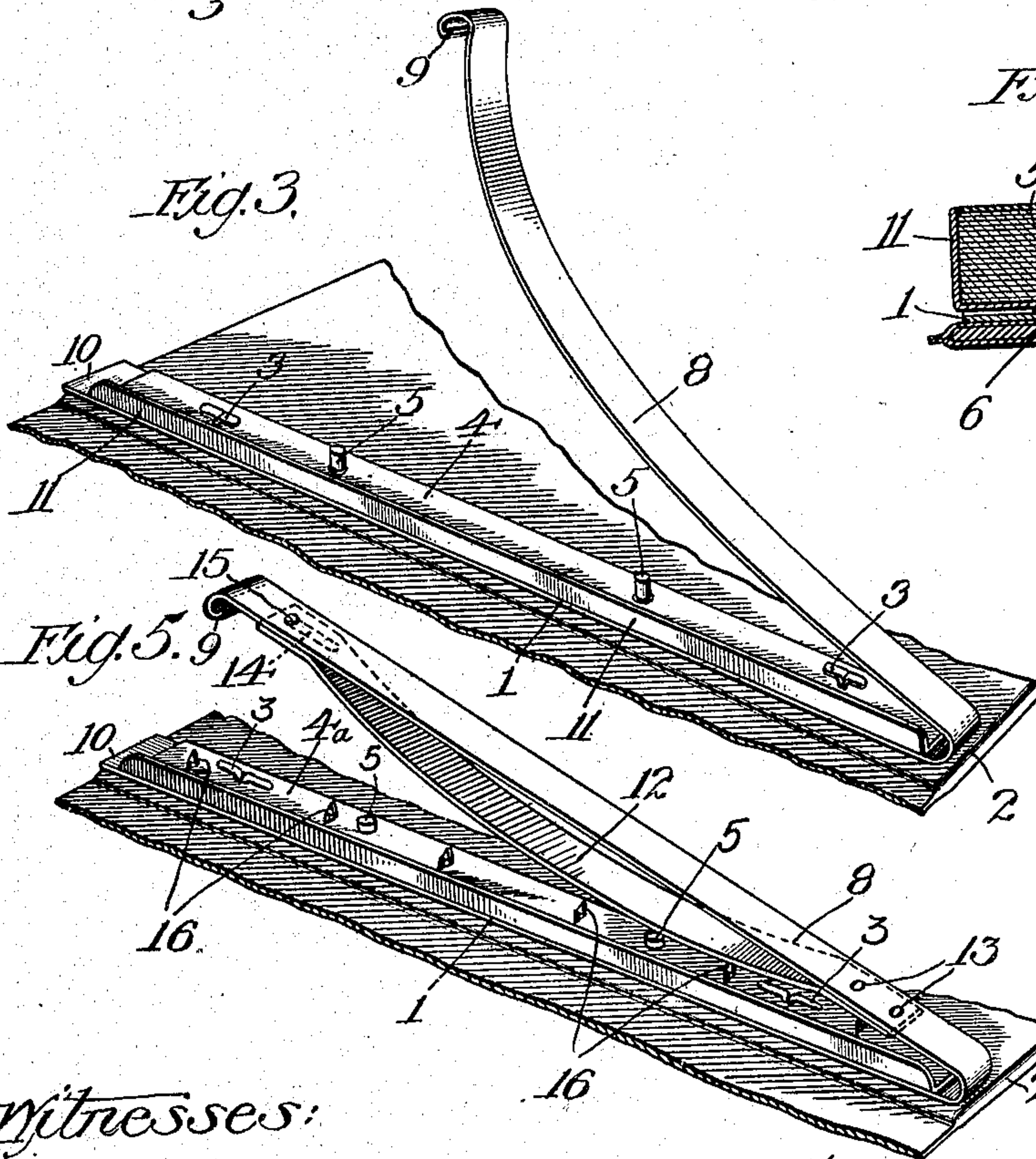
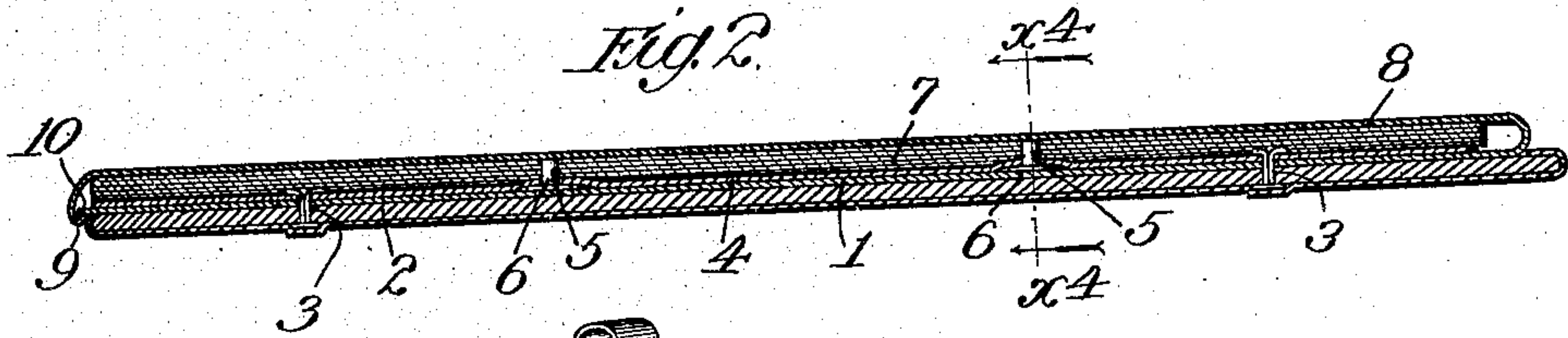
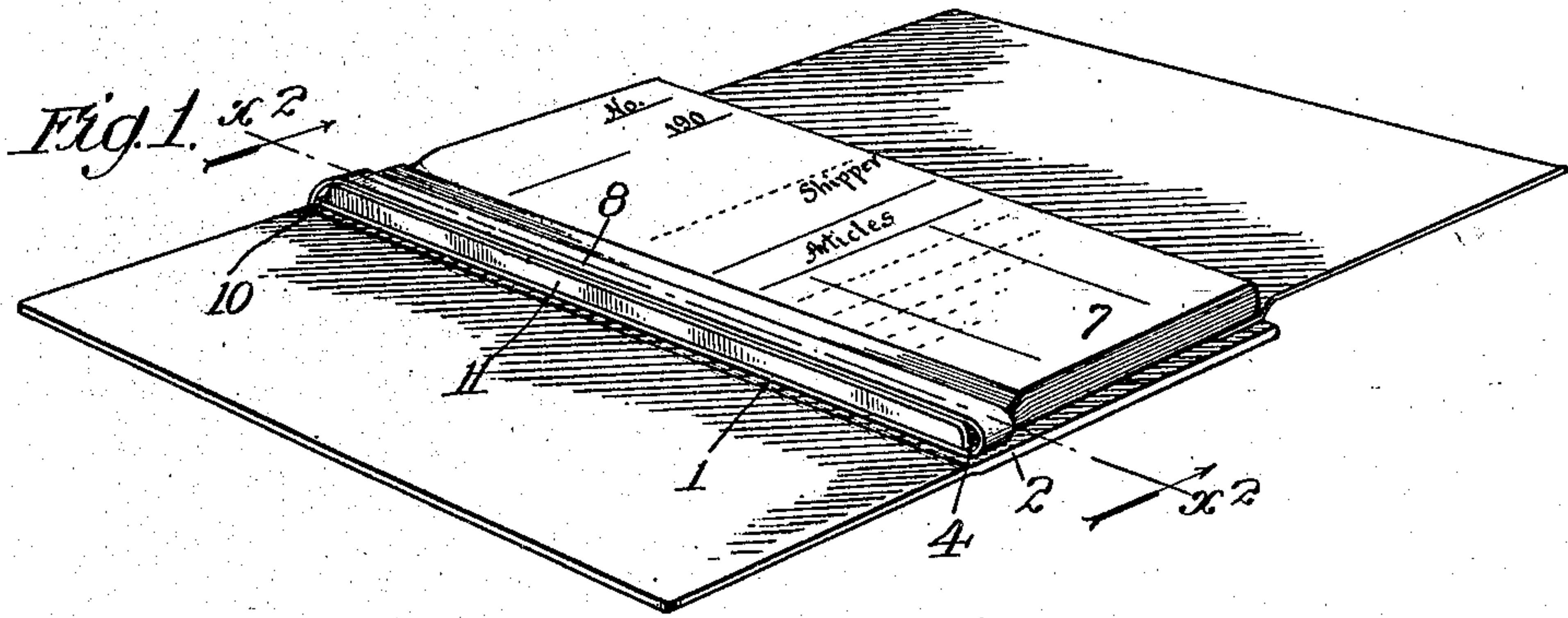


No. 885,648.

PATENTED APR. 21, 1908.

I. H. RICE.
BINDER.

APPLICATION FILED JULY 5, 1907.



Witnesses:
Lute S. Siler.
Frank L. Graham.

Inventor:
Irwin H. Rice.
James H. Gault, Stuart
Attorneys.

UNITED STATES PATENT OFFICE.

IRWIN H. RICE, OF LOS ANGELES, CALIFORNIA.

BINDER.

No. 885,648.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed July 5, 1907. Serial No. 382,364.

To all whom it may concern:

Be it known that I, IRWIN H. RICE, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Binder, of which the following is a specification.

This invention relates to binders adapted to bind loose leaves or a pad of leaves detachably in a cover, and the object of the invention is to provide a device which is of simple and economical construction, effective in operation, easy to manipulate, and durable in use.

The accompanying drawings illustrate the invention and referring thereto;—Figure 1 is a perspective view showing the covers of the book open. Fig. 2 is an enlarged section on line x^2-x^2 Fig. 1. Fig. 3 is a perspective view of the binding device with adjacent portion of the covers, showing the clamping spring released. Fig. 4 is a transverse section through the device on line x^4-x^4 Fig. 2. Fig. 5 is a perspective view similar to Fig. 3, showing a modified form of construction.

The binding device comprises a bottom strip of metal 1 which is secured to the cover 2 by staples or rivets 3. Lying immediately above the strip 1 is a metal strip 4 which is secured in place by the rivets 3 and which is perforated to permit studs 5 to pass there-through, the latter having heads 6 which lie between the strips 4 and 1. The leaves 7 are provided with perforations which fit over the studs 5. The bottom strip 1 is folded at one end and returned to form a top strip or binding strap 8 which, when not under restraint, is naturally bowed as shown in Fig. 3. The free end of the strap 8 has a hook 9 which is adapted to catch under the end 10 of the bottom strip 1 when depressed as shown in Fig. 2. When the strap 8 is thus caught in place it presses upon the pack of leaves 7 and holds them flatly in place, the studs 5 preventing the leaves from being removed. By releasing the hook 9 from the end 10 the strap 8 will spring up into the position shown in Fig. 3 and the leaves can then be readily lifted off from the studs 5, or other leaves can be inserted.

The upper strip 4 on its outer edge is provided with an upturned flange 11 which acts as a protection for the edges of the leaves 7.

In the form shown in Fig. 5 the strap 8, instead of being bowed, is formed straight, and

secured to its under side is a bowed spring 12, one end of which is riveted to the strap 8 at 13 and its other end is slotted at 14 and held slidable in position by a stud 15. The bow spring 12 acts to hold the leaves flat even though there should be but very few leaves in the book.

The strip 4^a may also be provided with upwardly projecting spurs 16. These may be distributed along the upper surface of the strip 4^a and act as grips on the lower sheets of paper in the pack and as a further means for securing them in position against slipping or being torn from the posts 5.

What I claim is:—

1. In a binder, a cover, a bottom strip fastened to the cover, a strip above the bottom strip and fastened thereto and having an outer flange, a binding strap formed integral with the lower strip and having a hook on its end for engagement with the end of the bottom strip, and studs projecting up from the second strip.

2. In a binder, a cover, a bottom strip fastened to the cover, a strip above the bottom strip and fastened thereto and having an outer flange, a binding strap formed integral with the lower strip and having a hook on its end for engagement with the end of the bottom strip, and studs projecting up from the second strip, said studs having heads which lie between both said strips.

3. In a binder, a cover, a bottom strip fastened to the cover, a strip above the bottom strip and fastened thereto and having an outer flange, a binding strap formed integral with the lower strip and having a hook on its end for engagement with the end of the bottom strip, studs projecting up from the second strip, and spring means for holding the sheets down on the second strip.

4. In a binder, a cover, a bottom strip fastened to the cover, a strip above the bottom strip and fastened thereto and having an outer flange, a binding strap formed integral with the lower strip and having a hook on its end for engagement with the end of the bottom strip, and studs projecting up from the second strip, the second strip having spurs projecting up for gripping the lower sheets of paper.

5. In a binder, a cover, a bottom strip fastened to the cover, a strip above the bottom strip and fastened thereto and having an outer flange, a binding strap formed

integral with the lower strip and having a
hook on its end for engagement with the end
of the bottom strip, studs projecting up from
the second strip, a bowed spring riveted at
5 one end to the binding strap and its end
being slotted, and a stud on the binding strap
engaging the slotted end of the bowed spring.

In testimony whereof, I have hereunto
set my hand at Los Angeles, California, this
26th day of June 1907.

IRWIN H. RICE.

In presence of—

GEORGE T. HACKLEY,
FRANK L. A. GRAHAM.