A. FAIFER.

LOOSE LEAF BINDER AND PERFORATOR.

APPLICATION FILED JULY 27, 1912.

1,142,032. Patented June 8, 1915.

Fig. 1

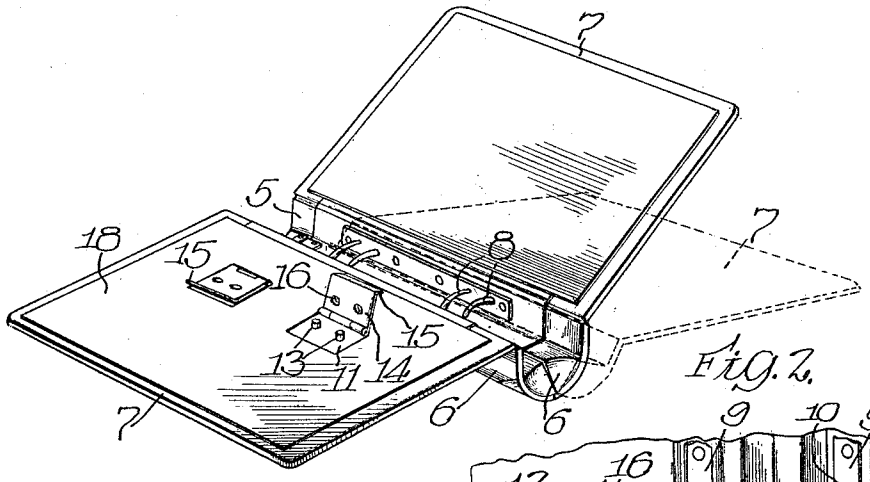


Fig. 2.

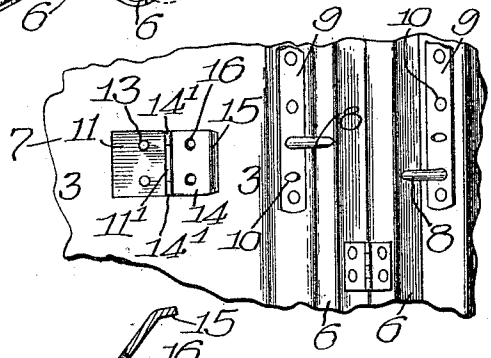
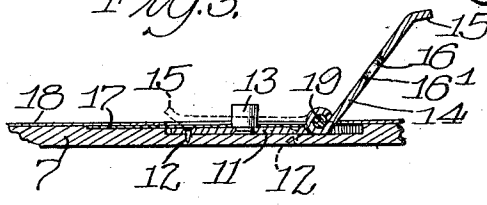


Fig. 3.



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UNITED STATES PATENT OFFICE.

ANTHONY FAIFER, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO HARRY E. WRIGHT, OF CHICAGO, ILLINOIS.

LOOSE-LEAF BINDER AND PERFORATOR.

1,142,032. Specification of Letters Patent. Patented June 8, 1915.

Application filed July 27, 1912. Serial No. 711,772.

To all whom it may concern:

Be it known that I, ANTHONY FAIFER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Loose-Leaf Binders and Perforators, of which the following is a specification.

This invention relates to a device for filing or containing perforated sheets, and the principal object of the invention is to provide an improved and simple device of this class having a containing binder for loose leaves and means for perforating the leaves attached thereto.

A further object of the invention is to provide an improved, simple binder of the class described in combination with perforating means for the loose leaves, integral with the binder.

For the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination and arrangement of the several parts, generally shown in the drawing and described in the specification, but more particularly pointed out in the appended claim.

In the drawing Figure 1 is a perspective view of a loose leaf binder to one cover of which are attached devices for perforating sheets to be contained in the binders. Fig. 2 is a detail plan view of a portion of the binder and one of the perforators. Fig. 3 is a sectional view of one of the perforating devices as applied to a cover of the binder.

In loose leaf binders, it is customary either to have sheets of particular size provided with perforations to correspond with projections in the binder or to provide an entirely separate and distinct device for perforating the sheets as desired. The present invention relates to a binder, upon one cover of which are secured one or more devices for perforating sheets to be held and contained in the binder.

Referring now more particularly to the drawing, and in the present exemplification of the invention, a binder 5 having the hinged back portions 6, is provided with hinged covers 7 and with interengaging projections or pins 8 which may be inserted through perforations in sheets of paper or other material to retain them in position in the binder. Preferably the back members 6 are provided with plates 9 in which the pins 8 are mounted and from which they project, and also with perforations 10 so that the free ends of the pins 8 may be seated or disposed in one of the perforations in the opposite plate 9 when the back members are folded together.

Secured to or mounted upon one of the covers 7 are one or more perforating devices, each comprising a plate 11 secured to the cover in any desired or suitable manner, as, for example, by means of the pins or screws 12, and secured to this plate are projecting pins 13 which may be formed integral therewith but are preferably secured to the plate through a perforation therein in any desired or suitable manner. Hinged upon the plate 11 is another plate 14 having an upturned end 15 to form a thumb or finger hold for raising the plate, and provided with perforations 16 which are disposed to register with the projections or pins 13 which are secured to the other plate member 11. The plate 11 of the perforator is preferably countersunk in the cover, as shown by Fig. 3, so that the upper face of the plate is substantially flush with the top of the cover, and one or more sheets of material as 17 and 18 are preferably disposed above the plate 11 and flush with the face of the cover, the projections 13, of course, protruding through the sheets of material so that the action of the device as a punch will not be impeded or restricted. The perforations 16 are preferably enlarged or beveled at 16′ so that the pins or projections 13 will pass readily through the perforations 16 as the plate 14 is pressed downwardly over the pins.

The pins or projections 13 and the corresponding openings therefor constitute a punch by means of which a piece of paper or other suitable material may be perforated. The projections of a single device or of a number of such devices are so disposed with respect to each other that they will form properly spaced perforations in a sheet of material so that the pins or projections of the binder will register therewith, whereby the sheet may be contained in the binder.

The hinged connection is preferably formed by providing the plate 11 with a central projecting portion 11′ rounded over a pin 19 and by providing the plate 14 with

projecting portions 14′ spaced apart substantially the distance of the width of the projecting portion 11′ of the plate 11, and rounded over the pin 19, thus holding the plates 14 and 11 in proper spaced position with respect to each other at all times.

By having the perforating device secured to the cover of the binder, there is no danger of losing the perforating device and it is always at hand whenever it is desired to perforate a sheet for insertion in the binder. Furthermore, the perforating device, when once properly spaced, will always remain so, so that the sheets may be readily perforated thereby and the perforations therein will always register with the pins or projections of the binder. In construction, these devices are simple and are readily operable, so that a binder provided with perforating devices can be produced for little more than the cost of such a binder alone. Such perforating devices are particularly adapted for use in this connection for the reason that they are operative to produce perforations at spaced distances, corresponding only to the binder to which they are applied. When once applied, they are not to be changed or is the spaced distance of the projections to be altered so that they could not be used for a binder in which the spaced distance of the pins was different from that of the binder of which they are a part.

What I claim is:

In a loose leaf binder and perforator, a cover member having a recess in its face; a plate set in said recess with its upper surface below the face of said cover; upstanding pins on said plate; a plate hinged to said first mentioned plate and having perforations therein adapted to fit and receive said pins; and a sheet of material covering the inner side of said cover, extending over said recess and said first mentioned plate and having openings therethrough accommodating said pins and the hinges between said first and second mentioned plates.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 24th day of July A. D. 1912.

ANTHONY FAIFER.

Witnesses:
KENT W. WONNELL,
J. H. JOCHUM, Jr.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."