A. FAIFER.

FILE BINDER.

APPLICATION FILED MAY 28, 1910.

998,963. Patented July 25, 1911.

Fig. 1.

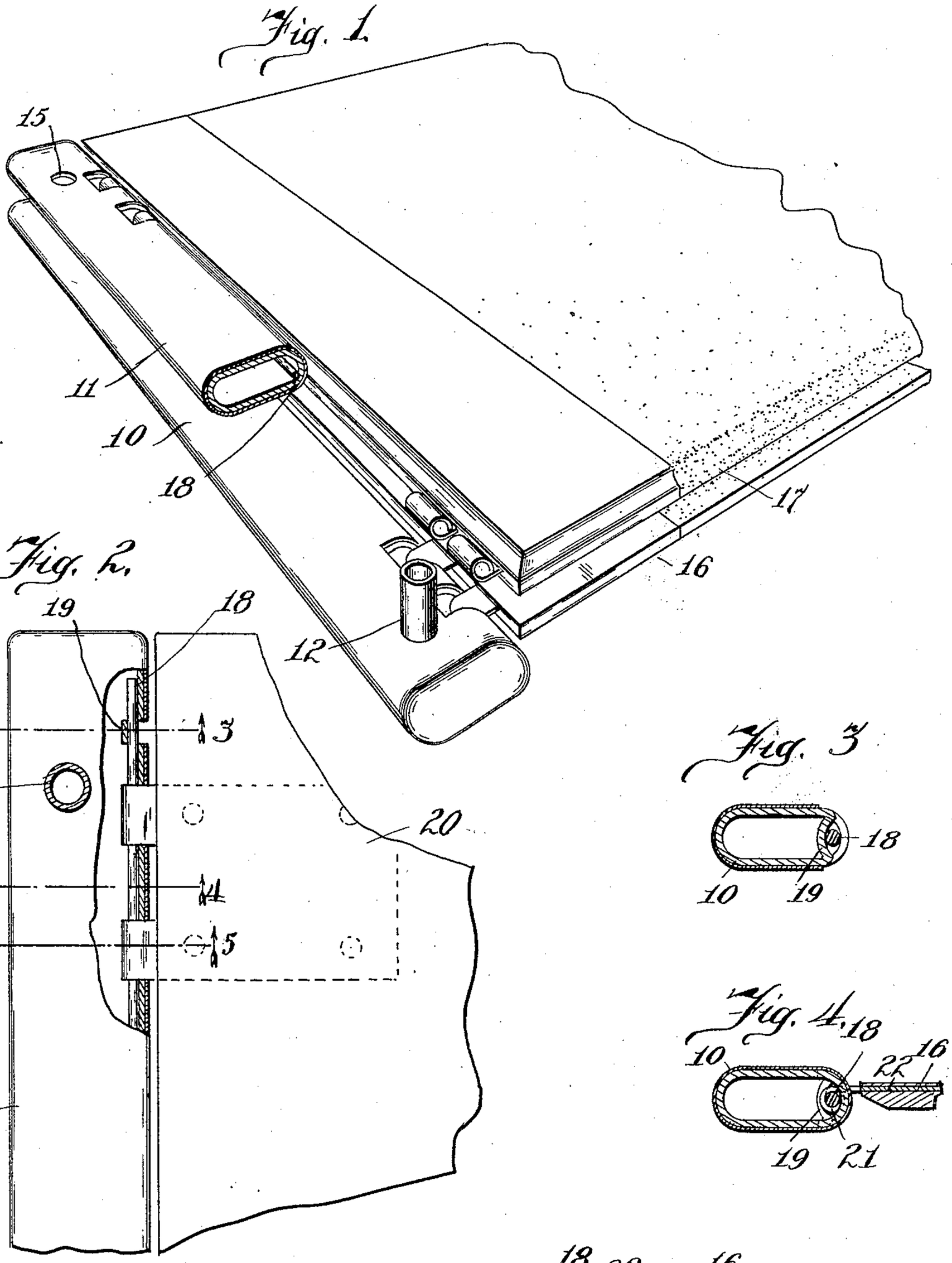
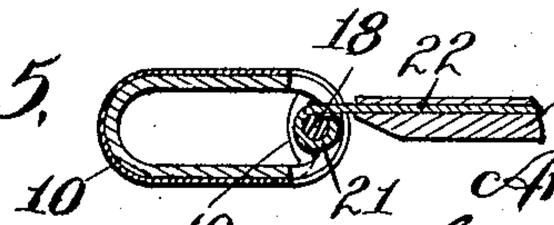


Fig. 2.

Fig. 3

Fig. 4.

Fig 5.



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FILE-BINDER.

998,963. Specification of Letters Patent. Patented July 25, 1911.

Application filed May 28, 1910. Serial No. 563,911.

To all whom it may concern:

Be it known that I, ANTHONY FAIFER, a citizen of the United States, and resident of St. Louis, State of Missouri, have invented certain new and useful Improvements in File-Binders, of which the following is a specification, and which are illustrated in the accompanying drawings, forming a part thereof.

The invention relates to binders comprising a pair of clamping members, one of which carries a plurality of upstanding filing posts, the other constituting a follower running upon these posts, the binder being further provided with cover plates hinged to the clamping members.

The invention relates to the hinge for uniting the cover plates with the clamping members, its object being to provide a simple, cheap yet strong construction, and a hinge which permits the binder to be opened to flat position.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a detail perspective of the binder, some of the parts being broken away; Fig. 2 is a detail plan view, partly in section, of the lower clamping member and cover plate; and Figs. 3, 4 and 5 are detail sectional views on the lines 3—3, 4—4 and 5—5, respectively, of Fig. 2.

The two clamping members 10, 11, are alike except that the former carries the upstanding filing posts 12, 13, and the latter is apertured, as shown at 15, to fit and slide upon these posts. In practice the upper member also carries locking mechanism, which is omitted in the drawings as it forms no part of the present invention.

The two cover plates or boards are shown at 16, 17, and are hinged, respectively, to the clamping members 10, 11. The hinges uniting each of the boards with one of the clamping members being of identical construction, but one set need be described.

The clamping member is in the form of a flattened metal tube, as more plainly shown in Figs. 3, 4 and 5. The pintle of the hinge is a rod 18, housed within the chamber of the clamping member and preferably, though not necessarily, secured against material lateral movement by means of loops, as 19 (as numerous as may be desired, only one being specifically shown), formed by striking in the edge of the flattened tube adjacent the cover plate, the rod passing through these loops and being held thereby against the inner face of the edge wall of the tube. Leaf hinges as 20, as many as the size of the binder may require, are attached to the cover plate, and have one or more lugs, shown at 21, 22, entering recesses in the adjacent edge of the flattened tube and encircling the pintle. The usual leather or fabric cover may be applied to the faces of the clamping members and cover boards, and preferably, in the case of the latter, cover the hinge plates. The hinges thus formed may be made as strong as the service which the binder is to be called upon to perform may require. They lie within the planes of the cover plates and between the planes of the flattened sides of the clamping member to which they pertain. The length of the lugs or shanks 21, 22, is such that the inner edge of the cover plate is close to the edge face of the clamping member, the latter is preferably rounded, and as the plate is swung upon its hinge it sweeps this rounded surface and the cover may be moved through a range of more than ninety degrees.

When the loops, as 19, are dispensed with the pintle is, nevertheless, held in position by the hinge lugs, though obviously not as securely or stably, and furthermore, the edge of the cover plate will in this case bear against the surface of the clamping member and cause more or less abrasion of the surfaces.

I claim as my invention—

1. In a binder, in combination, a tubular clamping member having a loop crossing its chamber and being apertured, a pintle housed within the chamber of the tube and engaged by the loop, a cover plate, and a hinge plate secured thereto and having a shank entering the aperture of the tube and encircling the pintle.

2. In a binder, in combination, a clamping member in the form of a flattened tube and having an aperture in one of its edge walls, and a loop formed by striking inward a portion of the same wall, a hinge pintle housed within the chamber of the tube and between the loop and the adjacent edge wall of the tube, a cover plate, and a hinge plate secured thereto and having a lug entering the aperture of the tube and encircling the pintle.

3. In a binder, in combination, a clamping

member having the form of a flattened tube with rounded edges, one of such edges being apertured and having loops formed by striking inwardly portions of such edge, a pintle housed within the tube and inclosed by the loops, a cover plate, and a hinge plate having lugs entering the apertures of the tube and encircling the pintle.

4. In a binder, in combination, a pair of clamping members each having the form of a flattened tube, adjacent edge walls of the tubes being apertured and provided with loops formed by striking in portions thereof, a hinge pintle located in each tube and within the loops, a pair of cover plates, hinge plates secured to each of the cover plates, the hinge plates of each cover having lugs projecting into the apertures of the adjacent clamping member and encircling the pintle therein.

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