

No. 867,191.

PATENTED SEPT. 24, 1907.

J. C. DAWSON.
LOOSE LEAF BINDER.
APPLICATION FILED APR. 15, 1907.

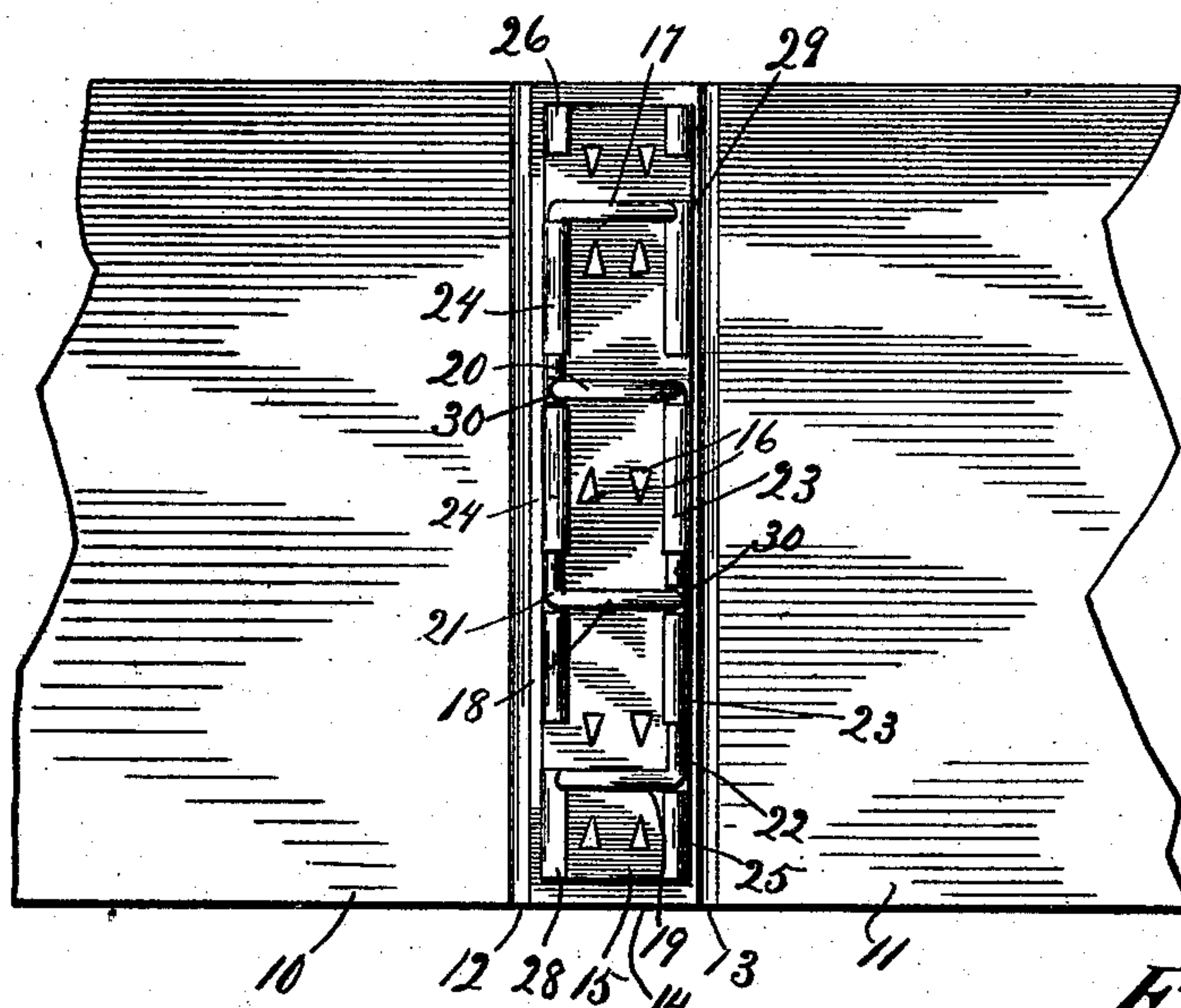


Fig. 1.

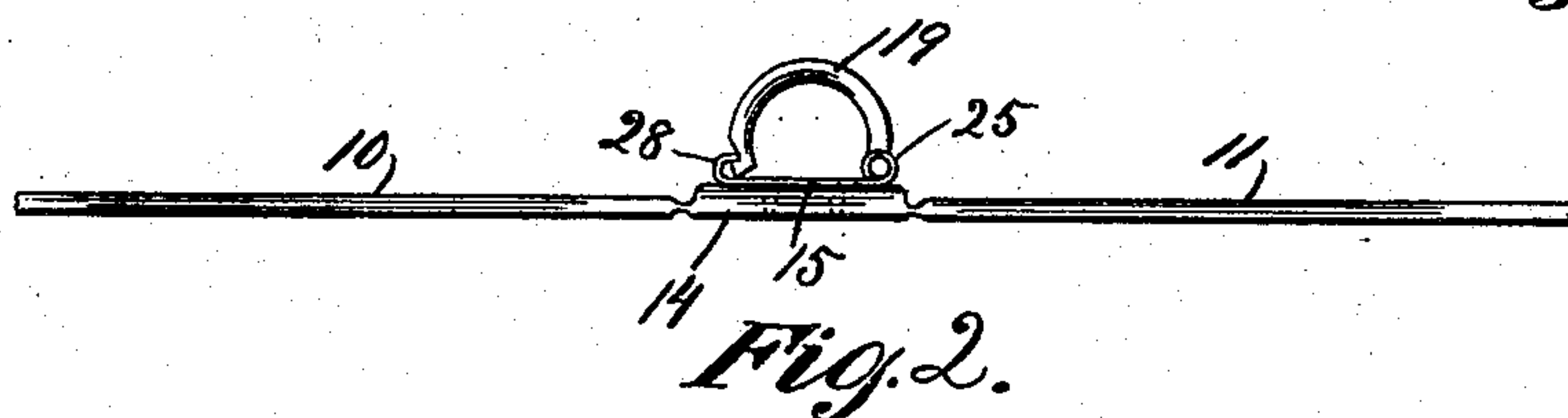


Fig. 2.

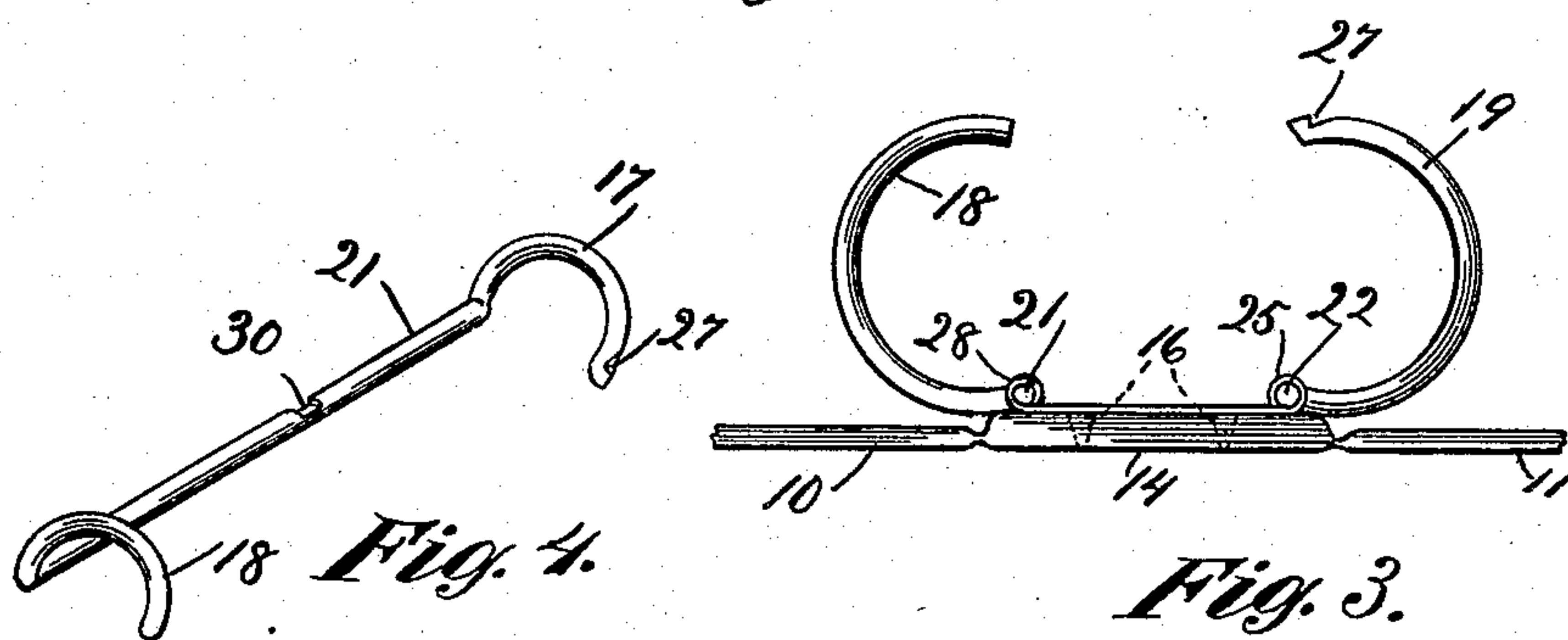


Fig. 3.

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UNITED STATES PATENT OFFICE.

JAMES C. DAWSON, OF ST. LOUIS, MISSOURI, ASSIGNOR TO SIEBER & TRUSSELL MANUFACTURING COMPANY, A CORPORATION OF MISSOURI.

LOOSE-LEAF BINDER.

No. 867,191.

Specification of Letters Patent.

Patented Sept. 24, 1907.

Original application filed March 16, 1906, Serial No. 306,323. Divided and this application filed April 15, 1907. Serial No. 368,253.

To all whom it may concern:

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

This invention relates to that type of loose leaf binders in which there is used rocking hooks or arches for engaging the leaves to be bound, the invention being peculiarly well adapted for use in connection with check-books, price books, catalogues, etc.

The object of this invention is to simplify the construction and action of devices of this kind; and it consists in the mechanism hereinafter described and which is illustrated in the accompanying drawings, in which—

Figure 1 is a detail plan view of the binder with its covers open, and its binding arches being closed; Fig. 2 is a detail end elevation of the same with the binding arches closed; Fig. 3 is a similar view with the binding arch open, and drawn to a larger scale; and Fig. 4 is a detail of a pair of binding arches.

The binder is preferably provided with stiff side boards or covers 10, 11, united by limp hinges 12, 13, to a back portion 14. The binding mechanism is carried by a metal plate 15, secured to the inner face of the back in any suitable manner, as by tangs, shown at 16 in dotted lines, struck down from the metal plate, and forced into the back 14.

The binding arches are arranged in pairs, as 17, 18, and 19, 20, the members of each pair being united by an integral pivot member 21, 22, secured one at each side of the plate 15, and preferably journaled in an overturned portion 23, 24, thereof. The arches of the two pair are arranged alternately, thus bringing one of each pair, as 17 and 19, adjacent the end of the back. The overturned portions 23, 24, of the back plate 15, which constitute the boxes within which the arch pivots are journaled, are of less length than the pivots, thus permitting lateral movement of the arches, the range of such movement being restricted by the length of the box and preferably by an overturned marginal flange of the plate 15, as shown at 25, 26, serving as stops for the arches.

The two end arches, designated in the drawings 17 and 19, respectively, are notched in their outer peripheral faces and adjacent their free ends, as shown at 27, and the edges of the plate 15 are overturned opposite such arch ends to form lips 28, 29. The arches may be moved laterally beyond the ends of these lips, and, being closed, may be moved back so that the notch 27 of each will engage one of the lips, thereby preventing the arch from being opened.

The boxes 23, 24, within which the pivots of the arches are journaled, are cut away opposite the free ends of the two inner arches 18, 20, for a space as great as the range of lateral movement of the arches, and each pivot member 21 is recessed, as shown at 30, to receive the free end of one of these inner arches. When thus interlocked the two pairs of arches necessarily move laterally together.

I do not herein claim broadly the laterally sliding arch, with a detent for holding same in closed position, as claims for such construction are made in my application for Letters Patent filed March 16th, 1906, Serial No. 306,323, of which this is a division.

I claim as my invention—

1. In a loose leaf binder, in combination, a back plate; two pairs of arches; a pivot member rigidly uniting the members of each pair of arches, the two pivot members having a rotative and sliding bearing at opposite sides of the plate, one of each pair of arches being positioned between the arches of the other pair and being engageable with the pivot member thereof; and a detent for engaging the more remote arches when closed.

2. In a loose leaf binder, in combination, a back plate; two pairs of oppositely disposed arches, the members of each pair being united by a slidable pivot; and detents for engaging the free end of one of each pair of arches and with which it is engaged by the longitudinal movement of the pivot.

3. In a loose leaf binder, in combination, a back plate; two pairs of oppositely disposed arches, the members of each pair being united by a slidable pivot; and detents for engaging the free end of one of each pair of arches and with which it is engaged by the longitudinal movement of the pivot, the two pairs of arches interlocking when closed.

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