No. 836,803. PATENTED NOV. 27, 1906.

J. C. DAWSON.

LOOSE LEAF BINDER.

APPLICATION FILED APR. 30, 1906.

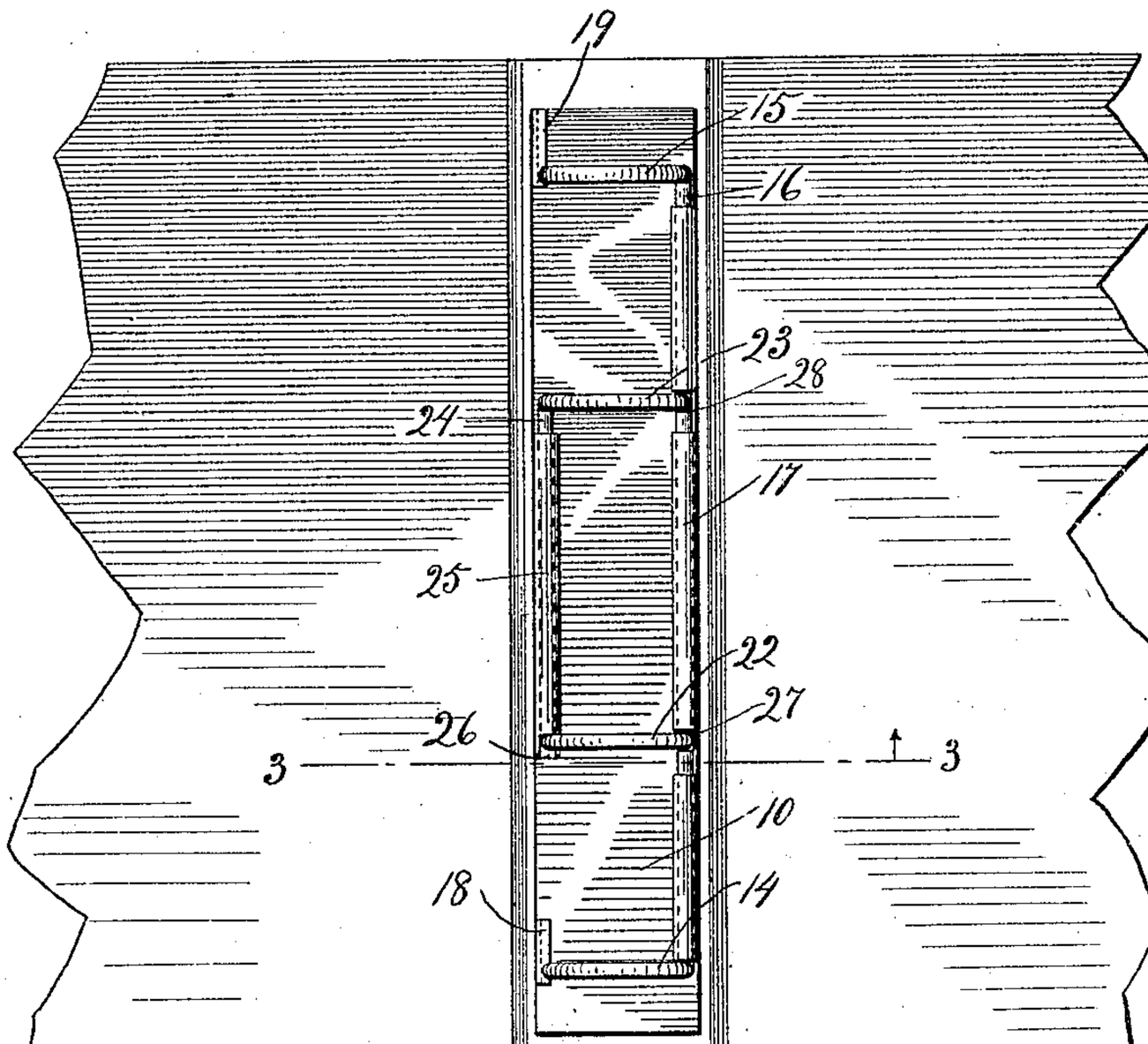

Fig. 1.

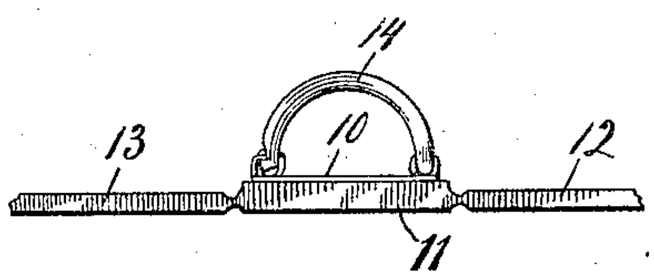

Fig. 2.

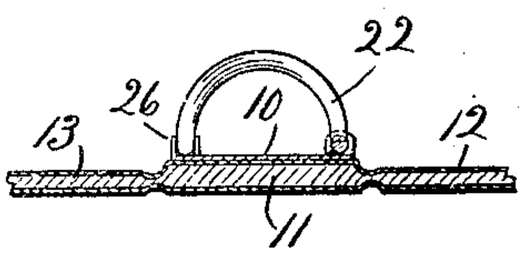

Fig. 3.

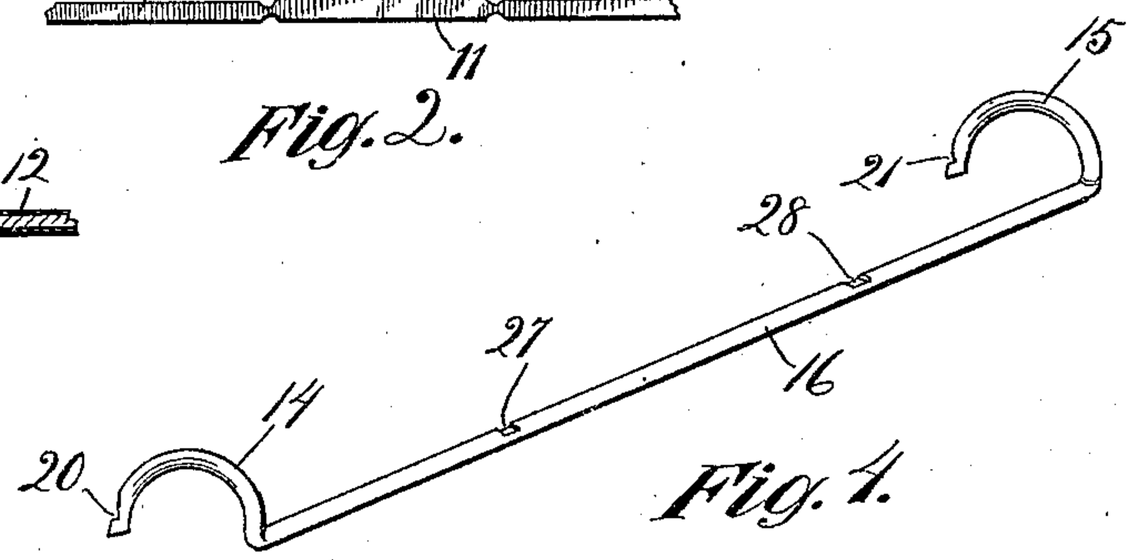

Fig. 4.

Witnesses:
W. H. Cotton
Charles B. Gilbson.

Inventor:
James C. Dawson.
By Louis A. Gleeson
Atty.

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. 836,803. Specification of Letters Patent. Patented Nov. 27, 1906.

Application filed April 30, 1906. Serial No. 314,433.

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 a suitable binding-frame comprising a back and usually a pair of hinged side plates is provided with curved arches pivotally mounted in such manner that they may be thrown back to receive the perforated sheets to be bound and may be turned forward and secured in order to retain the sheets in place.

The object of the invention is to simplify the construction of devices of this kind, and particularly to provide improved locking means for securing the arches in closed position.

The invention consists in an arch or arches carried by a slidable pivot and a detent formed on the plate carrying the pivot and arranged to engage the arch in the manner as hereinafter described and shown in the drawings, in which—

Figure 1 is a detail plan view of the binder, the side plates being opened or thrown back. Figs. 2 and 3 are detail sections on the lines 2 2 and 3 3, respectively, of Fig. 1; and Fig. 4 is a perspective of one form of arch and pivot-rod.

The invention relates to the type of binder which is made the subject of my pending application Serial No. 306,322 and is a species of the generic improvement described therein.

A metallic plate 10 is secured to the back 11 of the binder-casing, and a pair of side plates 12 13 are usually hinged to this back. A pair of arches 14 15 are carried by and, as shown, are integral with a pivot-rod 16, which is journaled within an overturned edge 17 of the plate 10. The pivot-rod 16 is slightly longer than the tube within which it is journaled, and hence is capable of a limited longitudinal movement. Upon the opposite edge of the plate 10 there are formed overturned lugs 18 19, adapted to engage notches 20 21, formed in the outer faces of the arches 14 15 and adjacent their free ends. The range of movement of the pivot-rod 16 is such that the arches 14 15 may be moved out of engagement with the lugs 18 19 to permit them to be thrown backward. When the arches are closed and moved laterally, the pivot-rod 16 sliding within its journal, their notches engage the lugs 18 19, and the arches are thereby securely locked. Another pair of arches 22 23 are carried by and, as shown, are integral with a pivot-rod 24, journaled in a suitable bearing-tube 25, formed by overturning the edge of the plate 10 opposite that at which the pivot-rod 16 is journaled. The rod 24 is shorter than the rod 16, and hence the arches 22 23 are located between the arches 14 15. The tube 25 is recessed from one end, as shown at 26, the width of the recess being the same as the diameter of the arch 22 and being so disposed that the arch will enter it when closed and move laterally, the pivot-rod 24 sliding in its journal. When the arch 22 is thus in engagement with the recess 26, the pivot 24 is prevented from rotation, and this pair of arches therefore remains closed.

The pivot-rod 16 is provided with a pair of recesses 27 28, so located as to be engaged by the ends of the arches 22 23 when the latter are closed, the tube 17, within which the pivot-rod 16 is journaled, being cut away to permit the ends of the arches to enter. When the arches 22 23 are thus engaged with the pivot-rod 16, the two sets of arches will move laterally together, and hence may be simultaneously locked.

I claim as my invention—

1. In a loose-leaf binder, in combination, a base-plate, two pairs of oscillatory laterally-movable arches pivoted at opposite sides of the plate, one pair of arches being located intermediate of the members of the other pair, and means for locking the arches against oscillation.

2. In a loose-leaf binder, in combination, a base-plate, two pairs of oscillatory laterally-movable arches pivoted at opposite sides of the plate, one pair of arches being located intermediate of the members of the other pair and interlocking therewith, and means for locking the arches against oscillation.

3. In a loose-leaf binder, in combination, a base-plate, two pairs of oscillatory laterally-movable arches pivoted at opposite sides of the plate, one pair of arches being located intermediate of the members of the other pair

and interlocking therewith, and a detent for engaging the inner pair of arches when moved laterally.

4. In a loose-leaf binder, in combination, a base-plate having its longitudinal edges overturned to form pivot-bearings; two pairs of arches, each pair having a common pivot longitudinally movable in one of the bearings, the end of one of such bearings being recessed to receive an arch when moved laterally; one pair of arches being intermediate of the other pair and interlocking with the pivot thereof.

JAMES C. DAWSON.

Witnesses:
ROBT. H. CONE, Jr.,
F. W. RISQUE.