

J. C. DAWSON.
 LOOSE LEAF BINDER.
 APPLICATION FILED MAR. 29, 1907.

901,076.

Patented Oct. 13, 1908.

Fig 1.

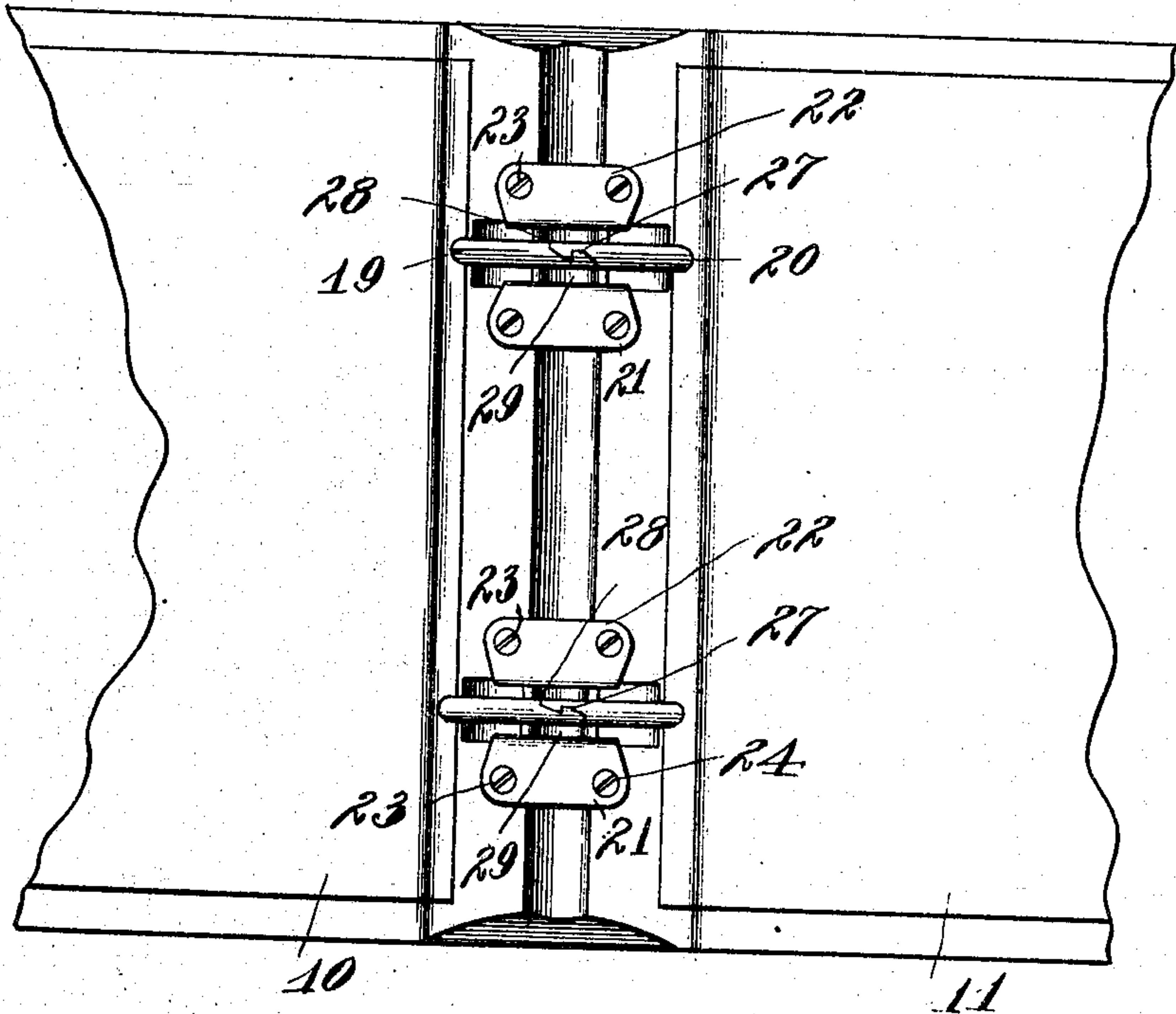


Fig. 2.

Fig 4.

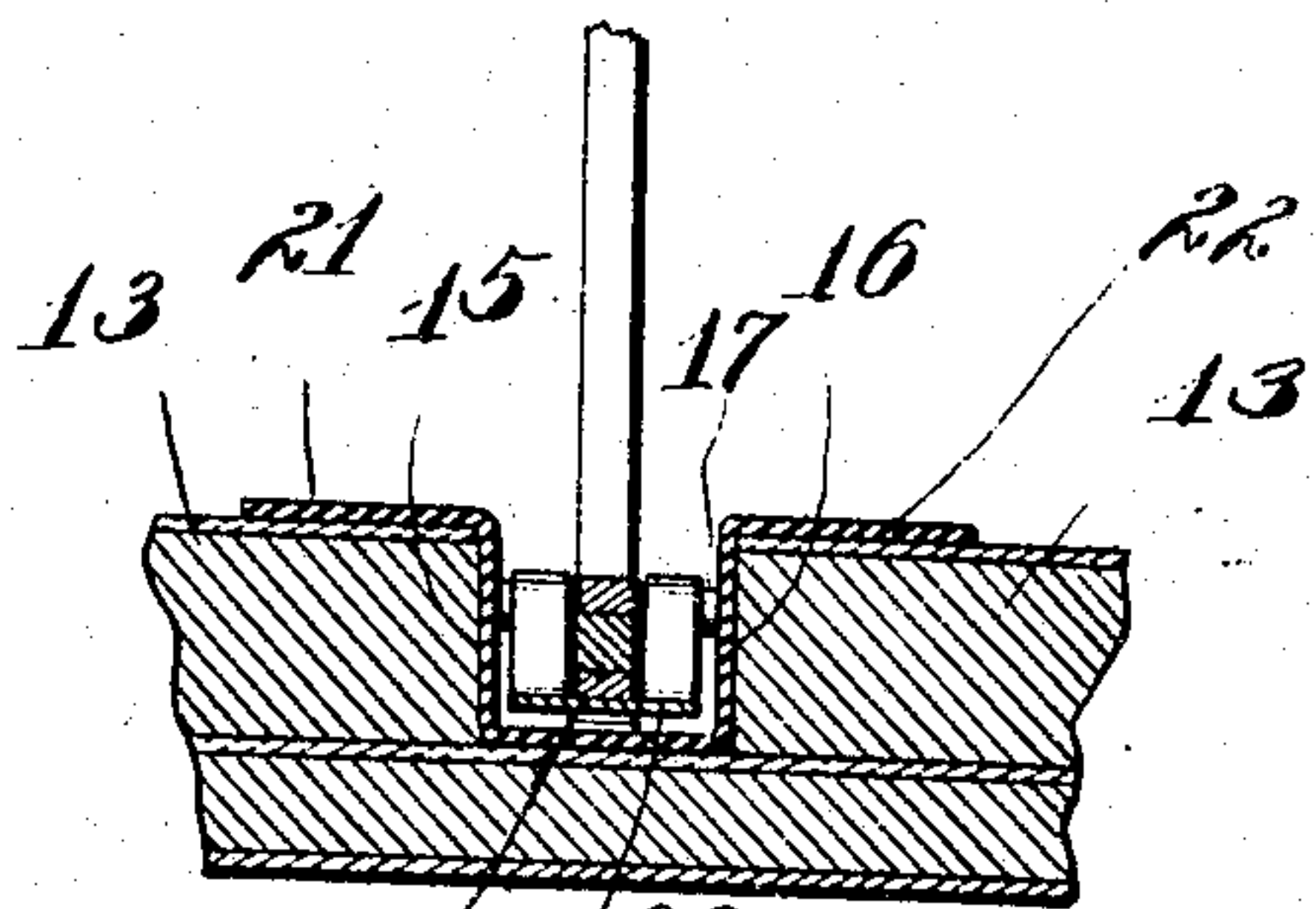
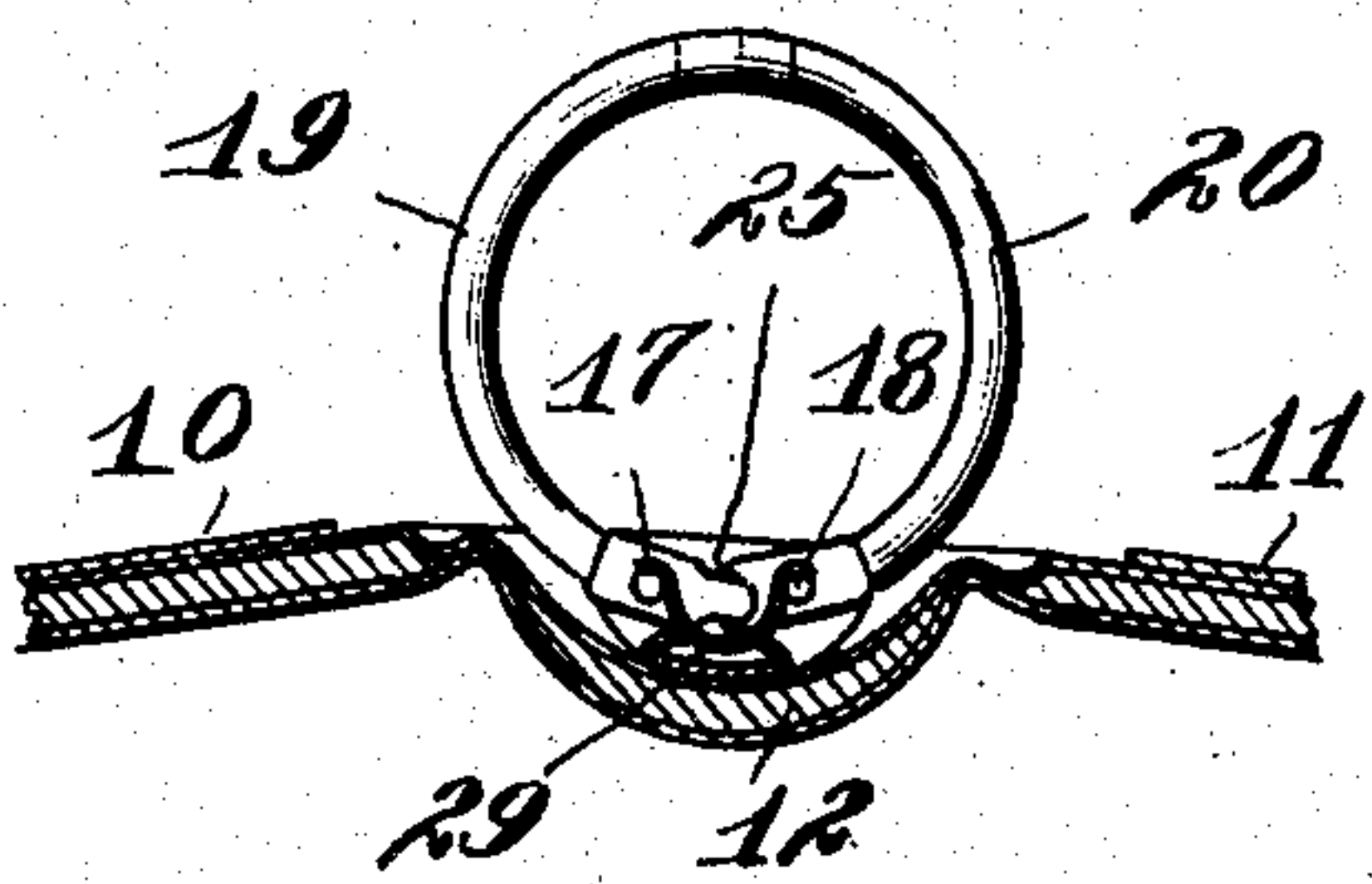
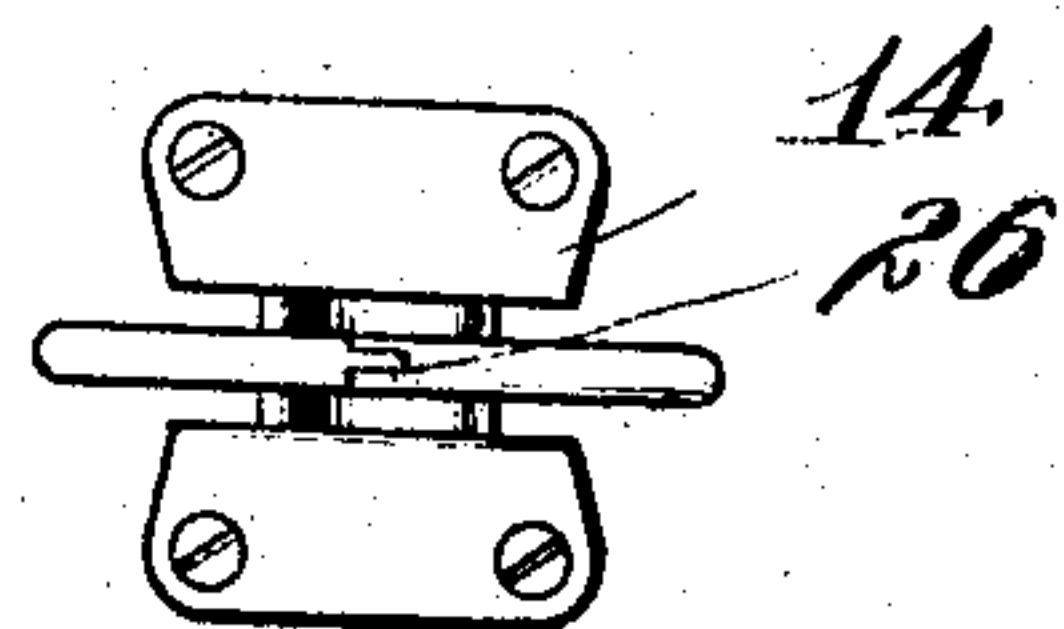


Fig 3.

Fig 5



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES C. DAWSON, OF ST. LOUIS, MISSOURI, ASSIGNOR TO SIEBER & TRUSSELL MNFG. CO.,
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LOOSE-LEAF BINDER.

No. 901,076:

Specification of Letters Patent.

Patented Oct. 13, 1908.

Application filed March 29, 1907. Serial No. 365,214.

To all whom it may concern:

Be it known that I, JAMES C. DAWSON, a citizen of the United States, and resident of the city of St. Louis, State of Missouri, have
5 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.

10 This invention relates to loose leaf binders provided with mating prongs or arch members pivotally mounted to a back plate, its object being to generally improve the construction of devices of this character, and
15 consisting of the structure and details hereinafter described and which are illustrated in the accompanying drawings, in which

Figure 1 is a detail plan view of the binder when open; Fig. 2 is a detail section thereof,
20 showing one of the arches in elevation and closed; Fig. 3 is a similar section on an enlarged scale, the arch being shown in open position; Fig. 4 is a detail longitudinal section of the back of the binder taken transversely through one of the arches; and Fig. 5
25 is a detail plan of one of the arches closed, showing a modified form of construction.

The binder is usually provided with a pair of side plates 10, 11, hinged to a back 12,
30 which in the present instance is shown as being provided with a longitudinal filler block 13 for supporting the arches. The arches may be of any desired number, two being shown, and are of that form which comprises
35 a pair of mating members approximately semi-circular in form and which are pivoted to the back adjacent their inner ends.

As affording a convenient and secure means for mounting the prongs, there is provided a
40 metal plate 14, bent to form side walls 15, 16, through which the pivots 17, 18, for carrying the prong members 19, 20, may be set. The filler block 13 is recessed for receiving this bent plate, as more plainly shown in Fig. 4,
45 and the outer ends of the plate are bent down upon the outer surface of the filler block, as

shown at 21, 22, and are secured thereto by means of screws 23, 24, or their equivalent.

The inner ends of the arch members 19, 20, interlock by a form of loose mortise and tenon
50 joint, as shown at 25, so that they necessarily move together, and their outer ends interengage either by a mortise and tenon joint, as shown at 26 in Fig. 5, or by a hook form of
55 joint 27, as shown in Fig. 1. When the former joint is employed, the tenon should fit tightly within the mortise in order to frictionally hold the arch closed. When the hook
60 form of joint is employed, the extreme end of each arch is flattened, as shown at 28, to abut against a correspondingly-shaped shoulder formed upon the companion arch member,
thereby preventing the two members from being accidentally forced past each other
65 beyond the engaging position.

A spring 29 is provided for spreading each arch, and consists of an elastic plate resting upon the pivots 17, 18, and bowing downwardly, and being slotted from its ends to accommodate the arch members, the inner ends
70 of which bear upon its upper face. The tendency of this spring plate to straighten itself urges the inner ends of the arch members upwardly, and consequently tends to separate
75 their outer ends. The application of pressure to the arch members to bring their outer ends together tends to bow the spring plate.

I claim as my invention—

In a loose leaf binder, in combination, a recessed back, a pair of pivots fixed within the
80 recess and disposed longitudinally as to the back, a pair of arch members mounted one upon each of the pivots, and a spring mounted upon the pivots and bearing upwardly against the inner ends of the arch members
85 and having down-turned lugs for engaging the bottom of the recess when the arch members are closed.

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Witnesses:

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