

No. 785,339.

PATENTED MAR. 21, 1905.

E. A. TRUSSELL.
LOOSE SHEET HOLDER.
APPLICATION FILED MAY 23, 1904.

Fig. 1.

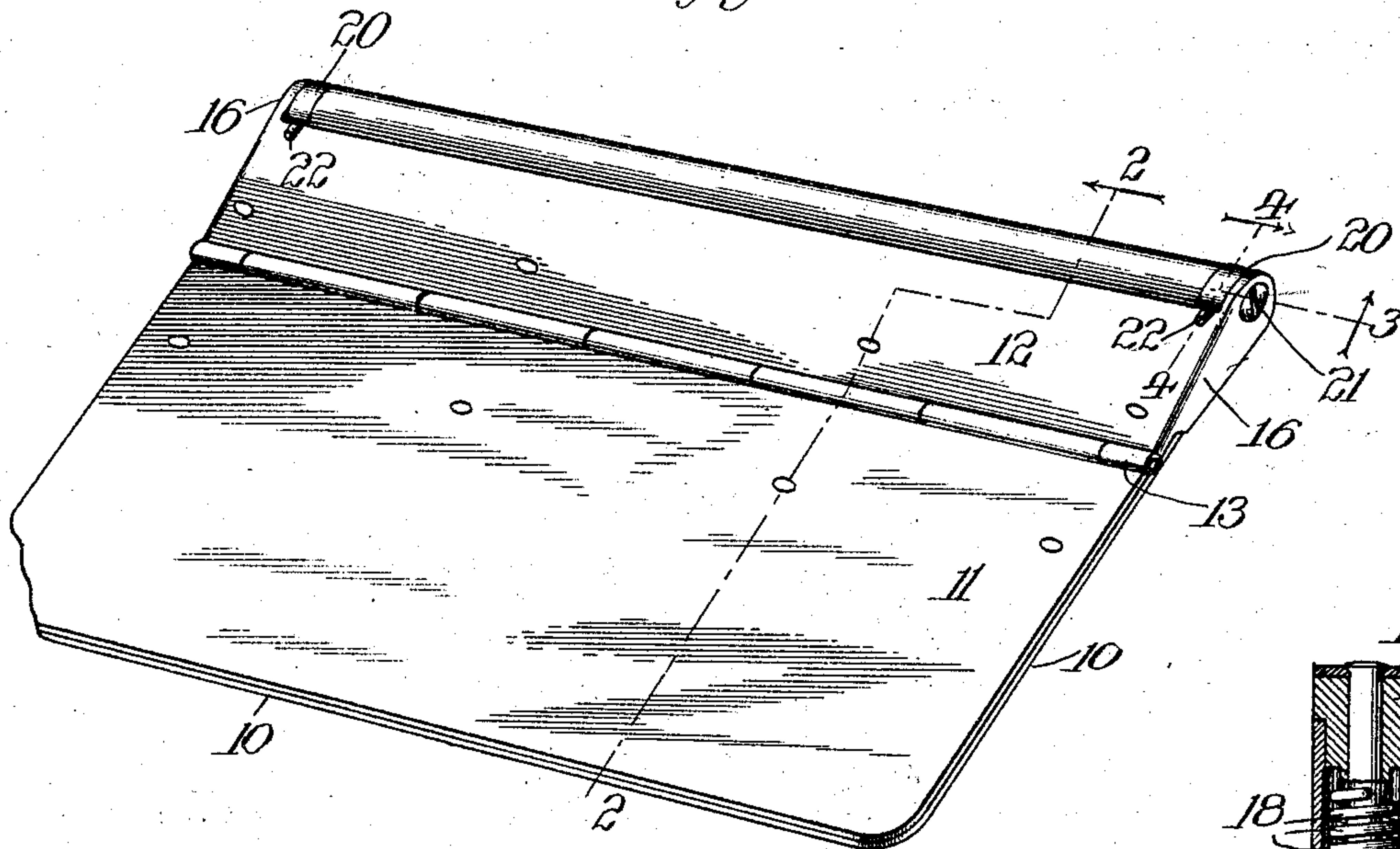


Fig. 2.

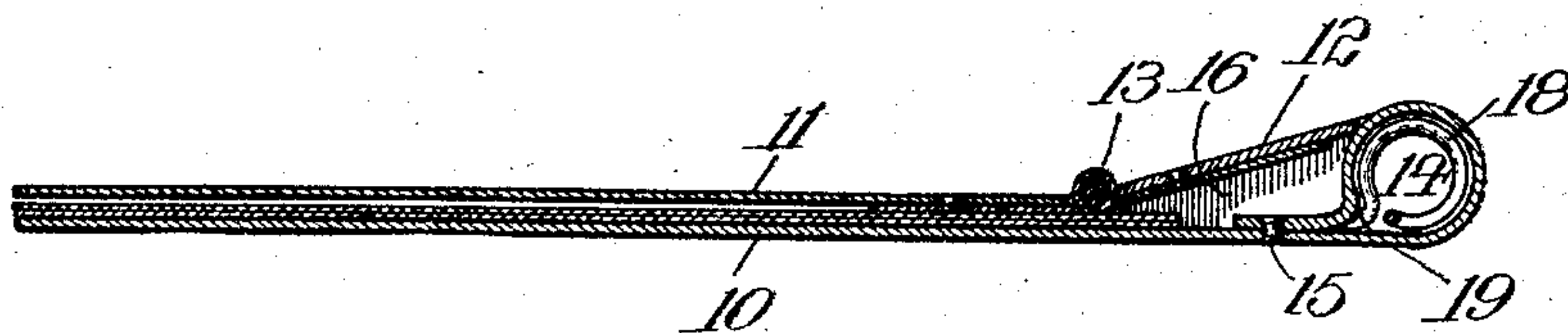


Fig. 5.

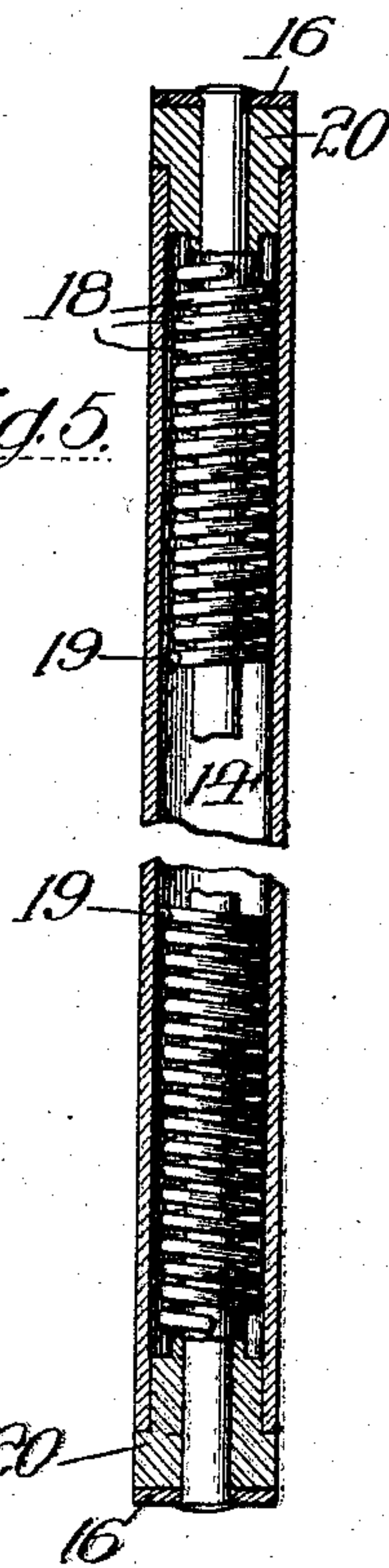


Fig. 3.

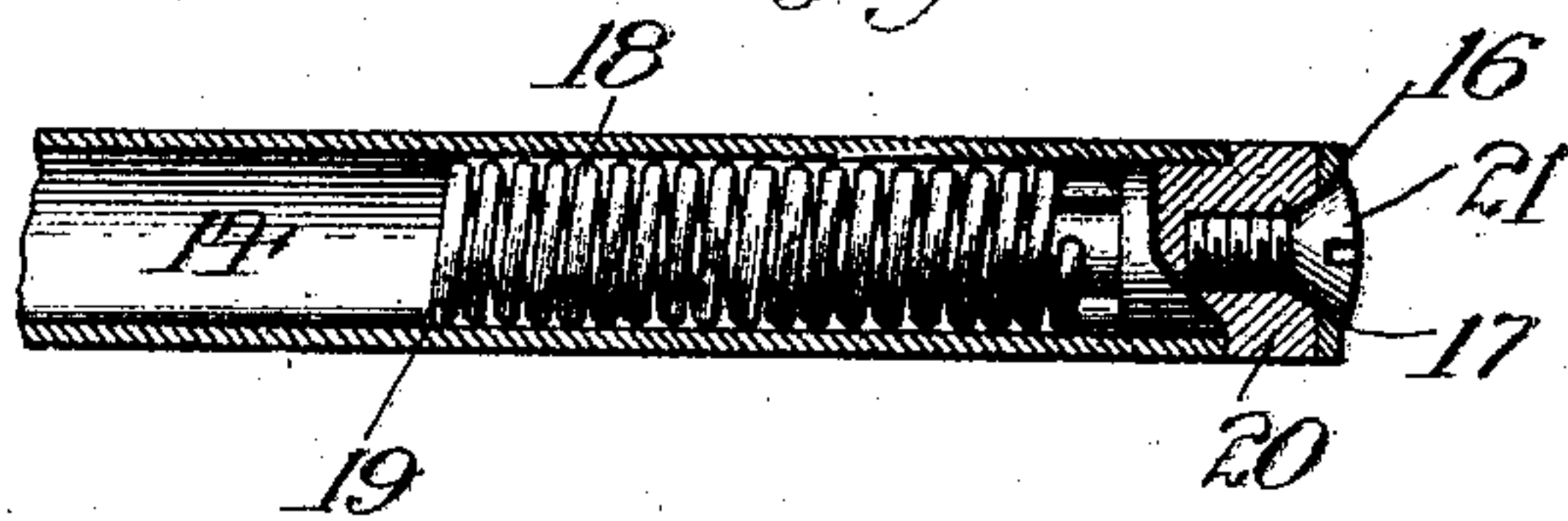
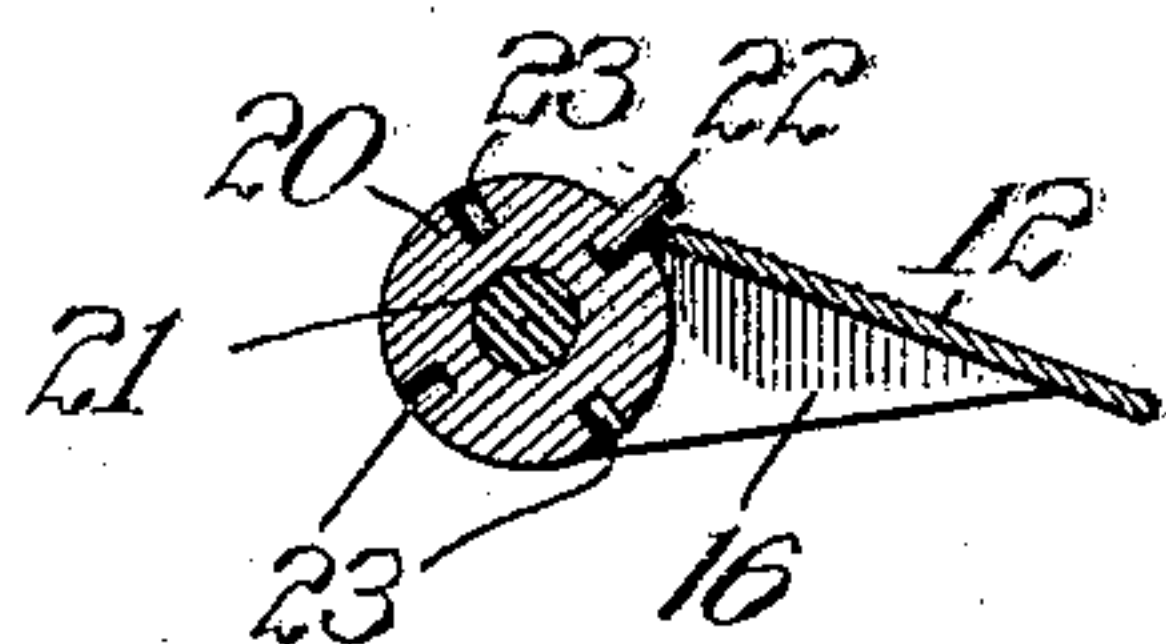


Fig. 4.



Witnesses:

Lester S. Alter,

E. M. Klatcher

Inventor:

Elmory A. Trussell

By Louis A. Gibson
Attorney

UNITED STATES PATENT OFFICE.

EMORY A. TRUSSELL, OF ST. LOUIS, MISSOURI, ASSIGNOR TO SIEBER & TRUSSELL MFG. CO., A CORPORATION OF MISSOURI.

LOOSE-SHEET HOLDER.

SPECIFICATION forming part of Letters Patent No. 785,339, dated March 21, 1905.

Application filed May 23, 1904. Serial No. 209,307.

To all whom it may concern:

Be it known that I, EMORY A. TRUSSELL, a citizen of the United States, and a resident of St. Louis, State of Missouri, have invented certain new and useful Improvements in Loose-Sheet Holders, of which the following is a specification and which are illustrated in the accompanying drawings, forming a part thereof.

The invention relates to improvements in that class of loose-sheet holders in which the sheets or leaves are held between a pair of clamping members, the clamping members constituting the sides or covers of the holder.

The object of the invention is to supply a simple holder of this class.

The invention consists in the construction and arrangement of parts hereinafter described and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the holder. Fig. 2 is a section of the holder on the line 2 2 of Fig. 1, showing a few sheets in place. Fig. 3 is a section on the line 3 of Fig. 1. Fig. 4 is a section on the line 4 4 of Fig. 1; and Fig. 5 is a section similarly placed to Fig. 3, but showing a modification in the construction.

The holder comprises the generally flat back piece 10 and a sectional cover-plate made up of the parts 11 and 12, united by a hinge 13, which extends their entire width, and means for connecting the back and one of the front pieces whereby they are firmly pressed toward each other. The front and back pieces are made, preferably, of stiff sheet metal. A rectangular portion at each of the rear corners of the back piece is cut away, and that portion of the back thus reduced in width is bent over upon itself to form a tubular eye 14 at the rear side. The overturned edge is joined to the main portion of the back, as by means of rivets 15. The rear section 12 of the front piece is provided with a pair of ears 16 16, formed of sheet metal continuous with its body projecting inwardly and rearwardly and each provided with a hole 17, the center of which coincides with the axis of the tubular eye of the back piece when the parts are assembled.

Inclosed in the tubular eye of the back piece

adjacent to each end is a coil-spring 18, the inner end 19 of which is bent out and sharpened so as to be engaged by the groove formed by the joining of the overturned edge of the back piece onto its main body. The outer end of the spring is secured into a knob or pin-
55 tle 20, which sets into the end of the tubular eye and extends outward therefrom, so that its outer end is flush with the edges of the back piece. The knob is drilled and threaded in a line coinciding with the axis of the tube
60 for the insertion of a screw 21, which passes through the aperture 17 in the ear 16 and thereby secures the front piece to the knob.

A pin 22, set in the knob, serves to transmit the torsional effect of the spring to the front
65 piece whereby the pressing together of the front and back pieces is secured. One or more holes 23 in the circumference of the knob 20 serve for the insertion of a pointed tool for rotating the knob, thereby increasing
70 the tension of the spring and providing for the shifting of the pin 22.

In use the sheets to be bound are held firmly by pressure between the back piece 10 and the inner face of the front piece 12, or, more
75 accurately, unless enough sheets are inserted to spread the covers to a parallel position between the back piece 10 and the inner edge of that plate of the hinge 13 which is secured to the front piece 12. For inspection of the sheets
80 the front cover 11 may be turned back on the hinge 13 and for the removal or insertion of a sheet the front cover 11 is turned back over the tubular portion of the back piece and depressed. The tube thus being a fulcrum for
85 the cover, the spring 18 is compressed and the space between the back and front covers 10 and 12 is increased.

Instead of employing the screws 21 to secure the front cover 12 to the knobs I may drill
90 the knobs entirely through and use a rod running the entire length of the tube and riveted over at the ends, as shown in Fig. 5.

I claim as my invention—

1. In a loose-leaf holder, in combination, a
95 back plate having its rear portion bent to form a tube and having its overturned edge secured to its body, a top plate having hinge-lugs op-

posing the ends of the tube, pintles secured to the lugs and entering the tube, and a torsion-spring housed within the tube, one end thereof being engaged between the overturned edge of the back plate and the body thereof and the other end being secured to one of the pintles.

2. In a loose-leaf holder, in combination, a back plate having its rear portion bent to form a tube and having its overturned edge secured to its body, a top plate having hinge-lugs opposing the ends of the tube, pintles set in the tube and engaging the lugs, a torsion-spring housed within the tube, one end thereof being engaged between the overturned edge of the back plate and the body thereof and the other being connected with one of the pintles, a stop set in the pintle and engaging the top

plate, a plurality of apertures being provided in the pintle into any one of which the stop may be set.

3. In a loose-leaf holder, in combination, a back plate having its rear portion bent to form a tube and having its overturned edge secured to its body, a top plate having hinge-lugs opposing the ends of the tube, means for rotatably attaching the hinge-lugs to the tube, and a torsion-spring housed within the tube one end thereof being engaged between the overturned edge of the back plate and the body thereof and the other end being connected with the top plate.

EMORY A. TRUSSELL.

Witnesses:

LEONARD WILCOX,
EDWIN W. MILLS.