

No. 724,849.

PATENTED APR. 7, 1903.

G. H. GRESHAM.  
TEMPORARY BINDER.

APPLICATION FILED AUG. 16, 1902.

NO MODEL.

Fig. 1.

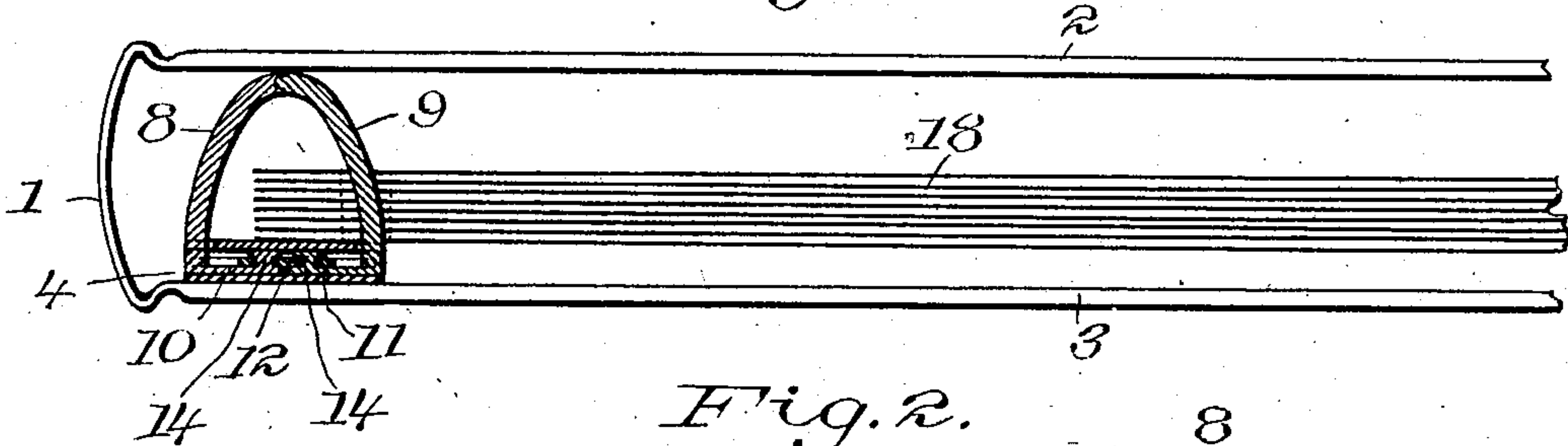


Fig. 2.

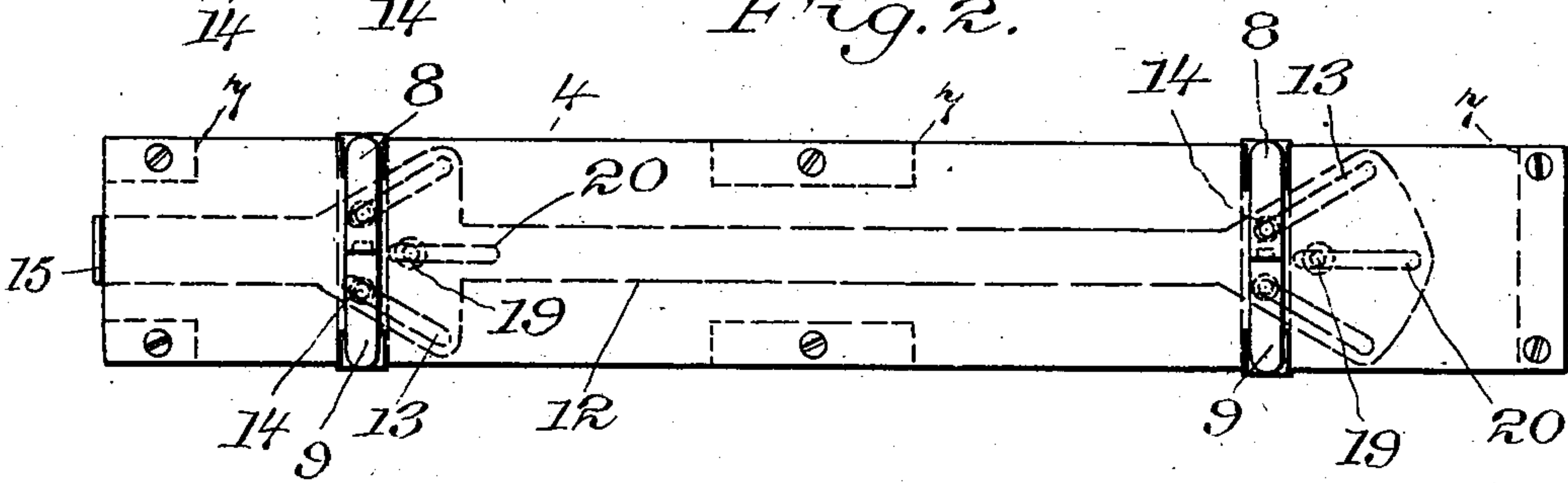


Fig. 3.

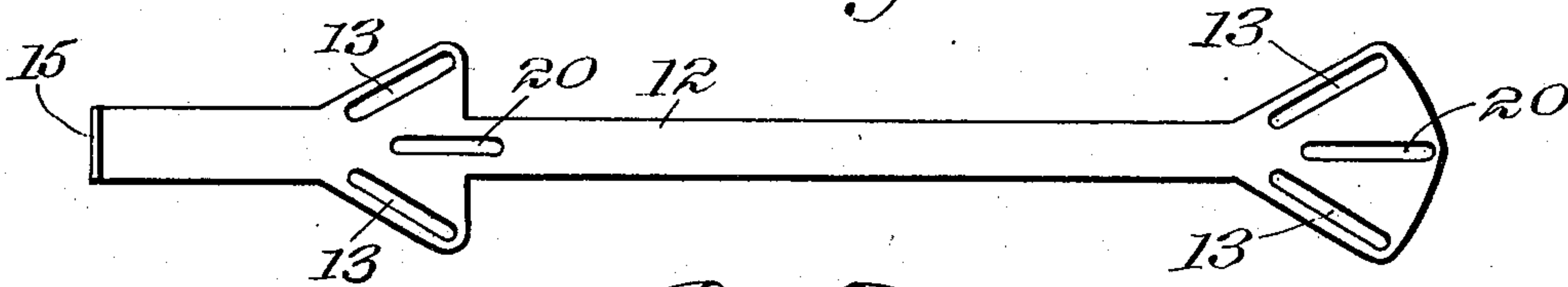


Fig. 4.

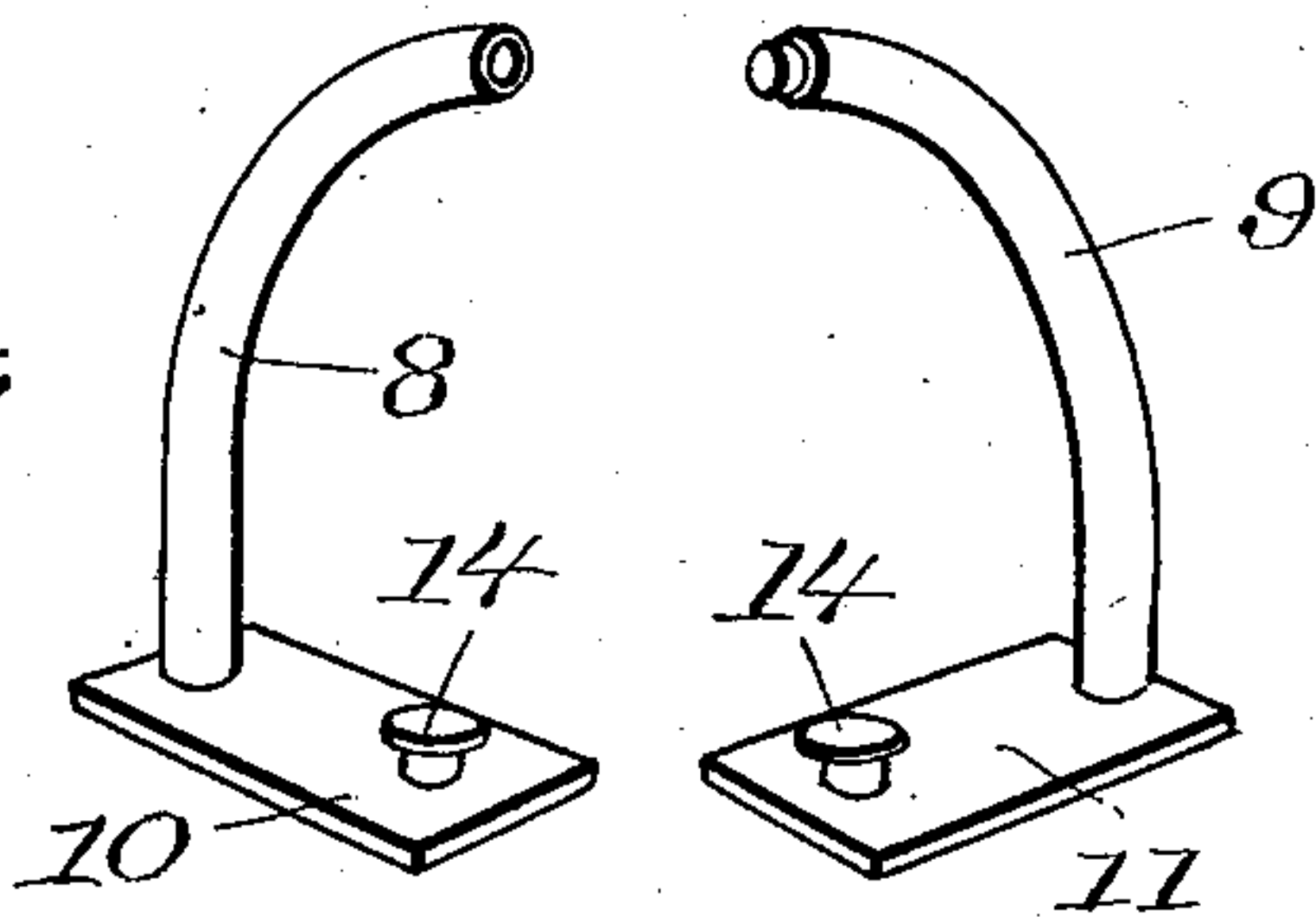
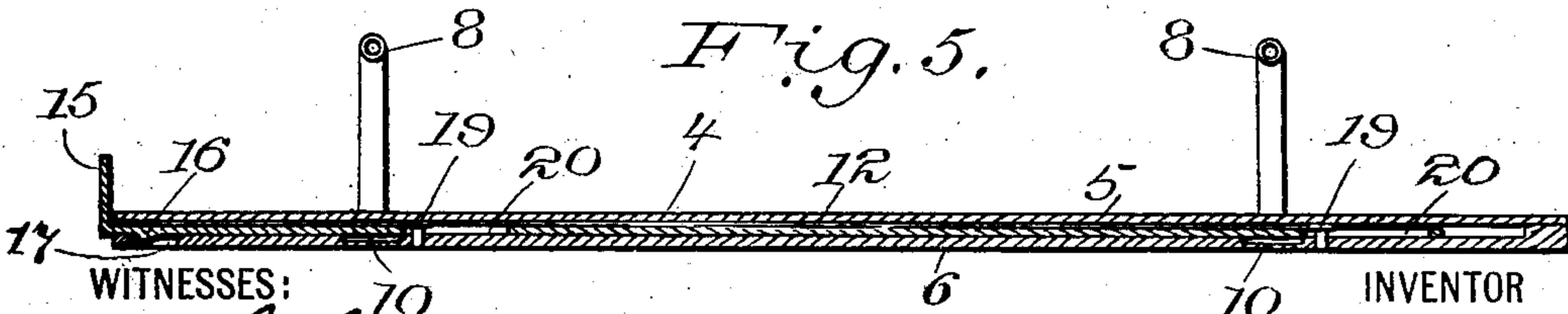


Fig. 5.



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# UNITED STATES PATENT OFFICE.

GEORGE H. GRESHAM, OF NEW YORK, N. Y., ASSIGNOR TO BOORUM AND PEASE COMPANY, A CORPORATION OF NEW YORK.

## TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 724,849, dated April 7, 1903.

Application filed August 16, 1902. Serial No. 119,897. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. GRESHAM, a citizen of the United States of America, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

My invention relates to temporary binders in general; and more specifically it consists of an improved form of apparatus for binding together a series of leaves which frequently have to be removed and reinserted or new leaves inserted.

The preferred form of my invention is illustrated in the accompanying drawings, in which—

Figure 1 is an end view of the completed binder with a series of leaves in position, one of the pairs of operating-jaws and their supporting parts being shown in section. Fig. 2 is a plan view of the binder-plate in detail, the jaw-operating apparatus being indicated in dotted lines. Fig. 3 is a detail of the slide-piece for operating the jaws. Fig. 4 shows details in perspective of the jaw members removed from the binder-plate. Fig. 5 is a longitudinal section of the binder-plate, taken through the center of the slide-piece.

Throughout the drawings like reference-figures indicate like parts.

The binder-cover is composed of the back piece 1, to which the leaves or side pieces 2 3 are hinged in any convenient way. Upon one of the leaves of the cover, as 3, is fastened the binder-plate 4, which, as shown, consists of the two parts 5 and 6, held together in any convenient way, with spacing-pieces 7 inserted between them. In the binder-plate are mounted one or more pairs of cooperating jaws 8 9, which have a sliding motion transversely of the binder-plate in a plane at right angles to the axis of the hinge of the back 1 and leaf 3. As shown, these jaws are guided in this plane of motion by the flat base portions 10 11, which slide between the two parts 5 and 6 of the binder-plates. As a means for causing these jaws to approach or recede one from another, I may employ any suitable apparatus, as the slide-piece 12, which extends from one end of the binder-

plate to the farthest pair of jaws and is provided with oppositely-arranged diagonal slots 13, which engage pins 14, projecting from the jaw-slides. The slide-piece may terminate in a raised portion 15, which forms a convenient handle for grasping the same, and, if desired, may be provided with a locking projection 16, which springs into the notch 17 in the binder-plate and normally holds the slide-piece in its innermost position until it is lifted up so as to disengage the locking means preparatory to withdrawing it and opening the jaws. Pins 19 19 work in slots 20 20 to guide the slide-piece 12. The leaves 18 are perforated at points corresponding to the jaw members 9, and when the jaws are caused to recede from one another any number of said leaves may be taken off or replaced or others substituted or inserted, the leaf 2 and back 1 being first thrown back to afford convenient access to the interior of the binder.

The method of operation of my invention is evident from the foregoing description. To insert the leaves, the cover is opened, and the slide-piece 12 is pulled out, separating the jaws. Any number of leaves 18 may then be put in the binder by inserting the jaw members 9 through the perforations in said leaves. The slide-piece 12 is then pushed back, locking itself in position by means of the projection 16 and recess 17. This draws the jaws together, as shown in Fig. 1, thereby rendering it impossible to remove any of the leaves 18. The cover is then folded up in position shown in full lines in Fig. 1, and the book is ready for use. In using the book the cover is again unfolded and the leaves turned over, as is done in consulting the pages of any book, the curved shape of the jaws 8 and 9 permitting the leaves to slip over from one jaw to the other and lie flat on both sides of the cover, as an open book.

The advantages of my invention comprise its simplicity, durability, and strength. The jaws being carried by one of the stiff leaves or side boards of the cover, there is no strain whatever upon the back or the hinges connecting the back and the side covers. When the binder is handled in a closed position, there is no strain of the contained leaves upon the joint between the two members of the



jaw, and consequently no tendency to spread the members of the jaws apart. The shape of the jaws permits the easy turning over of the pages on them. Furthermore, the fact  
5 that the ends of the jaws always project above the pile of leaves when the jaws are forced together prevents the possibility of a portion of the leaves being included between the jaws, thereby interfering with the closing  
10 of them, tearing the leaves, and otherwise interfering with the working of the binder.

It is evident, of course, that various changes could be made in the details of the construction shown and described without departing  
15 from the spirit and scope of my invention. Other means for causing the jaws to approach and recede from one another might be used and other locking means substituted for those shown. The shape of the jaws  
20 might be varied and the location of the binder-plate changed; but all such modifications I should consider still within the limits of my invention.

Having therefore described my invention,  
25 what I claim as new, and desire to protect by Letters Patent, is—

1. The combination of a cover comprising a back and two leaves hinged thereto with a flat binder-plate mounted on one of said  
30 leaves adjacent to the back, guideways formed in said binder-plate, slides working therein, said slides being arranged in one or more pairs and a curved jaw supported upon each

slide and means for causing the members of each pair of jaws to approach or recede from  
35 each other.

2. The combination of a cover comprising a back and two leaves hinged thereto with a flat binder-plate mounted on one of said leaves adjacent to the back, guideways formed  
40 in said binder-plate, sliding pieces mounted therein, said sliding pieces being arranged in one or more pairs and a curved jaw supported upon each slide and means for causing the members of each pair of jaws to approach or  
45 recede from each other, said means comprising a slide-piece extending from one end of the plate to the farthest pair of jaws and provided with diagonal slots and pins projecting from the jaw-pieces and engaging said slots.  
50

3. The combination of the cover comprising a back and two leaves hinged thereto with a binder-plate mounted on one of said leaves adjacent to the back, guideways formed in  
55 said binder-plate, one or more pairs of curved jaws mounted in said guideways and means for causing the members of each pair of jaws to approach or recede from each other, together with means for positively locking said  
60 jaws in their closed positions.

Signed at Brooklyn, New York, this 13th day of August, 1902.

GEORGE H. GRESHAM.

Witnesses:

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