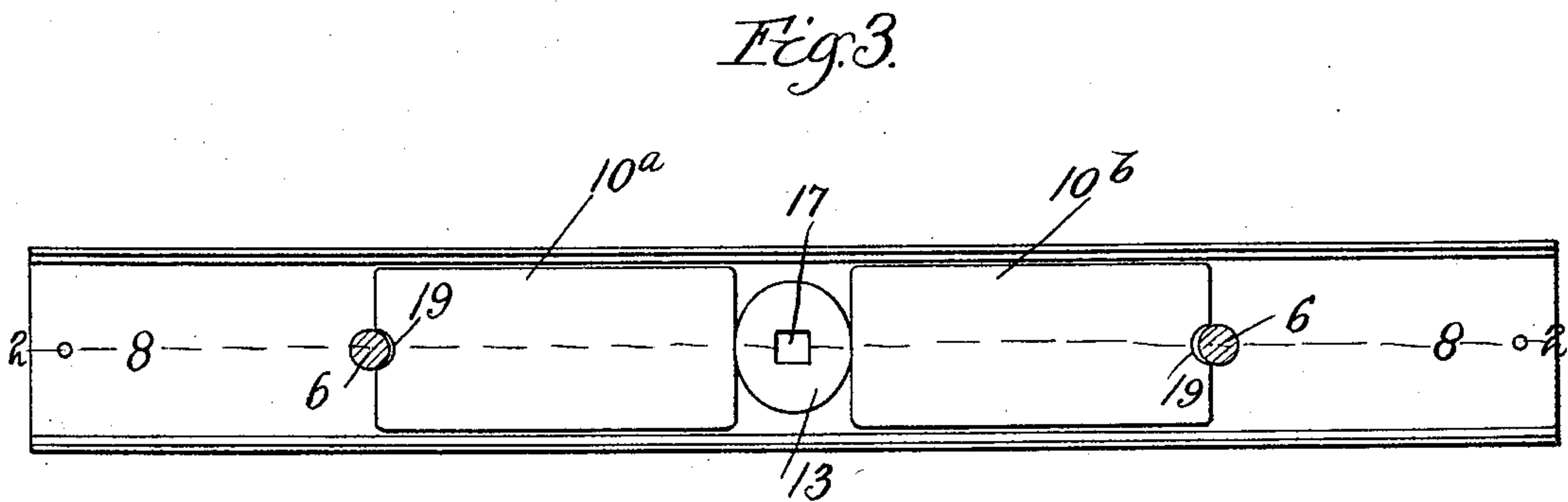
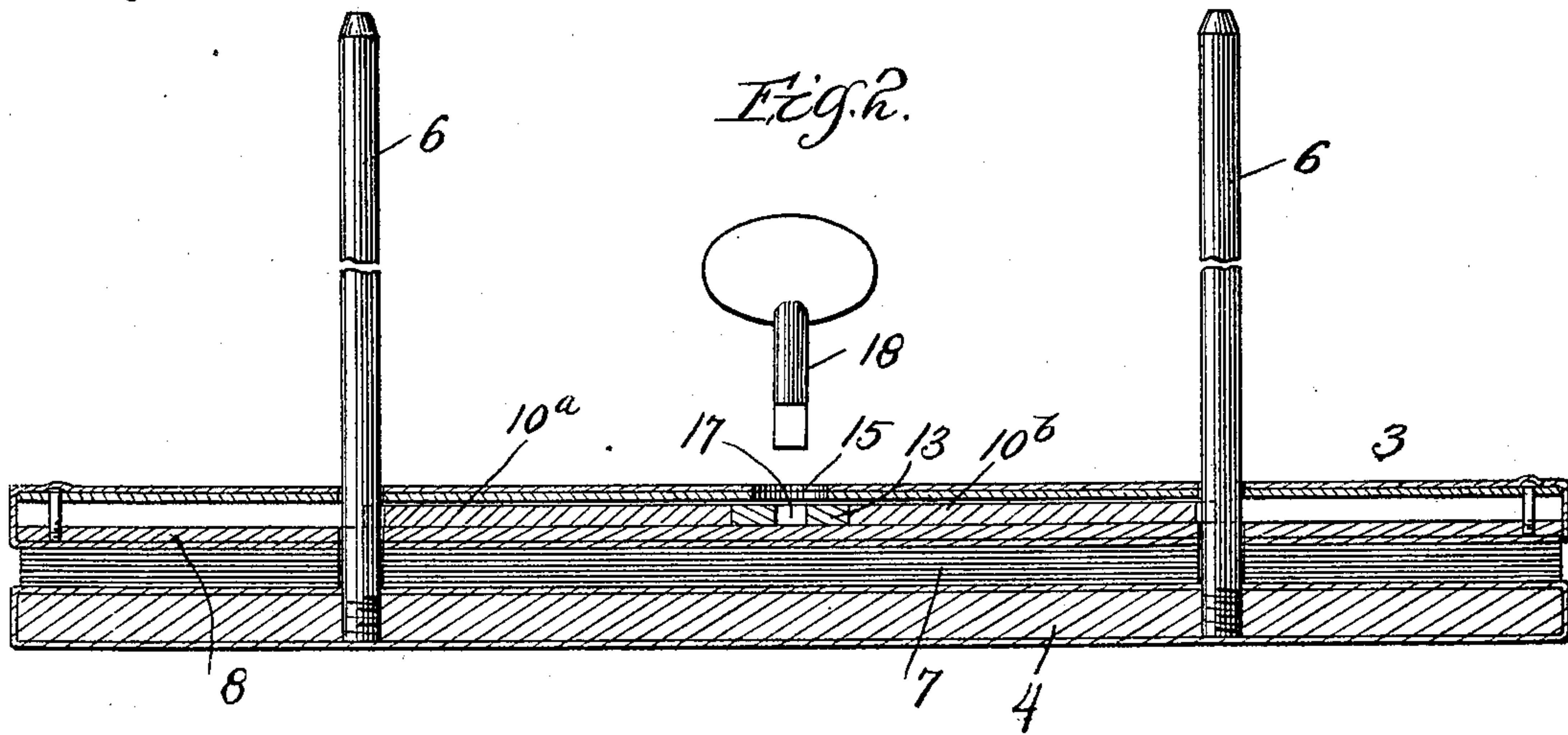
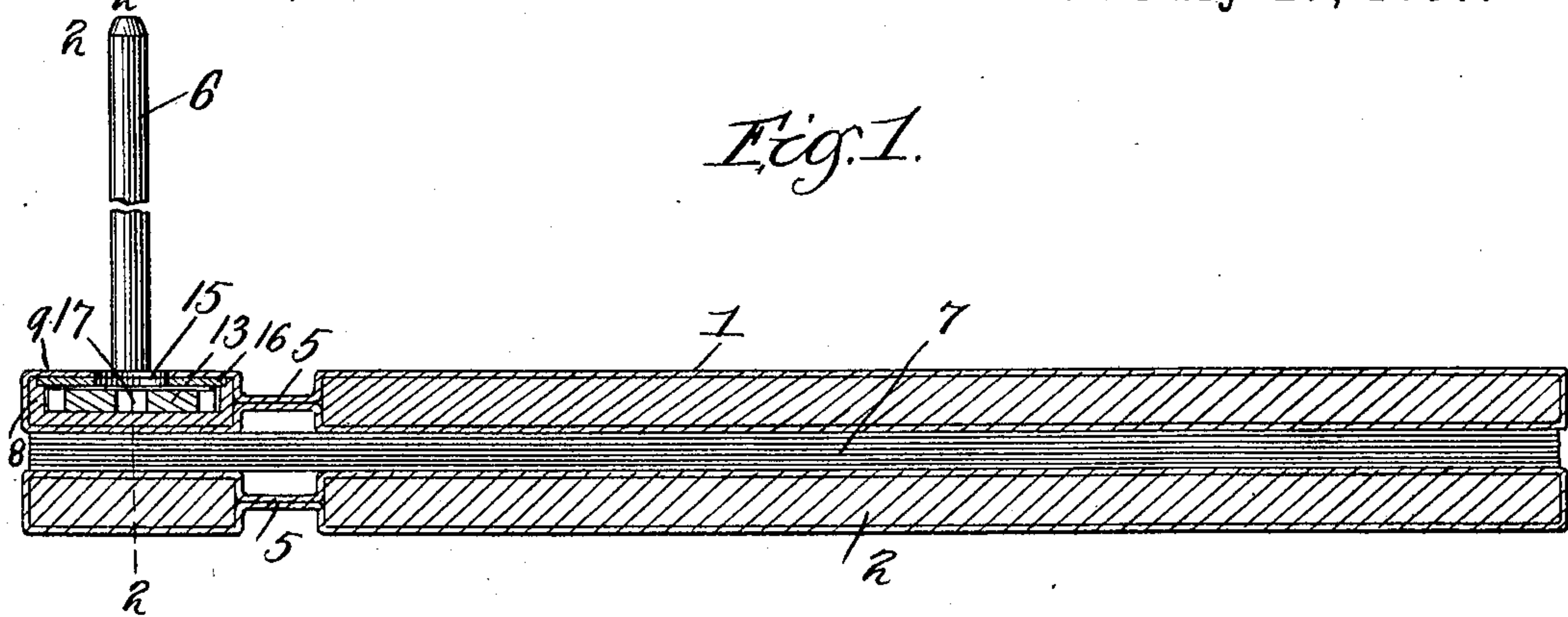


(No Model.)

J. S. McDONALD, Jr.  
TEMPORARY BINDER.

No. 587,044.

Patented July 27, 1897.



Witnesses.

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# UNITED STATES PATENT OFFICE.

JAMES S. McDONALD, JR., OF CHICAGO, ILLINOIS.

## TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 587,044, dated July 27, 1897.

Application filed December 9, 1895. Serial No. 571,499. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES S. McDONALD, Jr., a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Temporary Binders, of which the following is a full, clear, and exact specification.

My invention relates to that class of temporary binders used for binding together a number of loose sheets, bills, letters, or other documents, and in which are employed two covers, one provided with the filing or impaling pins and the other with perforations for the passage of such pins, and means for gripping the latter and holding the second or upper cover at any desired elevation from the other.

My improvements have more especial reference to the means for securing the upper cover to the impaling-pins; and my invention has for its primary object to provide simple, cheap, and effective means for this purpose.

With these ends in view my invention consists in certain features of novelty in the construction, combination, and arrangement of parts by which the said objects and certain other objects hereinafter appearing are attained, all as fully described with reference to the accompanying drawings, and more particularly pointed out in the claim.

In the said drawings, Figure 1 is a vertical longitudinal section of a temporary binder constructed according to my invention. Fig. 2 is a transverse sectional view thereof, taken on the line 2 2, Fig. 1. Fig. 3 is a plan view of the locking mechanism, the upper plate of the casing containing such locking mechanism being removed.

1 and 2 represent the upper and lower covers or backs, respectively provided with the usual strips 3 4, respectively secured to the covers 1 and 2 by flexible portions or hinges 5, and 6 are the impaling-pins, secured in any suitable manner to the strip 4 of the lower cover 2 and projecting through the letters or sheets 7 and also through suitable perforations in the strip 3.

The strip 4 of the bottom cover may be

constructed in the ordinary or usual manner or in any other suitable way; but the strip 3 is preferably constructed by a metallic or other suitable casing 8, preferably situated within the binding 9 and containing the locking or gripping mechanism, which I will now describe. This gripping mechanism consists of a pair of jaws  $10^a$   $10^b$ , which are arranged end to end between the impaling-pins 6 in such a manner that when forced apart they will impinge such pins, and located between the adjacent ends of these jaws  $10^a$   $10^b$  is a cam 13, provided with a key-socket 17 for the reception of the key 18, whereby the rotation of the cam 13 will force the jaws  $10^a$   $10^b$  in opposite directions and cause them to grip the impaling-pins 6, the curvature of the cam 13 being such that the reaction of the jaws  $10^a$   $10^b$  will be insufficient to cause the cam to return to its normal position.

Instead of journaling the cam 13 in the casing 8 I arrange such cam loosely in the casing, as shown in Fig. 3, so that in the event the jaw  $10^a$ , for instance, should reach and impinge its impaling-pin before the jaw  $10^b$  reaches its impaling-pin the cam may nevertheless continue to rotate until the latter jaw has gripped its impaling-pin with sufficient pressure.

The jaws  $10^a$   $10^b$  are preferably in the form of flat plates of sufficient width to be guided by the side flanges of the casing 8, and, if desired, they may be provided at their ends with notches 19 for partially embracing the impaling-pins. The cam 13 is held in place by the ends of the jaws  $10^a$   $10^b$  in conjunction with the face-plate 16 of the casing 8, which rests down substantially in contact with the face of the cam and also holds the jaws  $10^a$   $10^b$  against vertical displacement. The face-plate, as well as the binding 9, is of course provided with an elongated keyhole 15 to permit of the key sliding back and forth with the cam.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A temporary binder having in combination two covers, one provided with impaling-pins projecting through the other, a casing through

which said impaling-pins pass, a pair of loose jaws located between said impaling-pins and within said casing, a loose cam located within the said casing between the ends of said jaws 5 and being held in place by the upper and lower sides of said casing and the ends of said jaws, said cam being provided with a key-socket and said casing opposite said socket

being provided with a slot extending longitudinally of said casing, substantially as set forth.

J. S. McDONALD, JR.

Witnesses:

F. A. HOPKINS,

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