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C. F. McBEE.
LOCKING DEVICE FOR LOOSE LEAF FILES.
FILED DEC. 30, 1918.

Fig. 1.

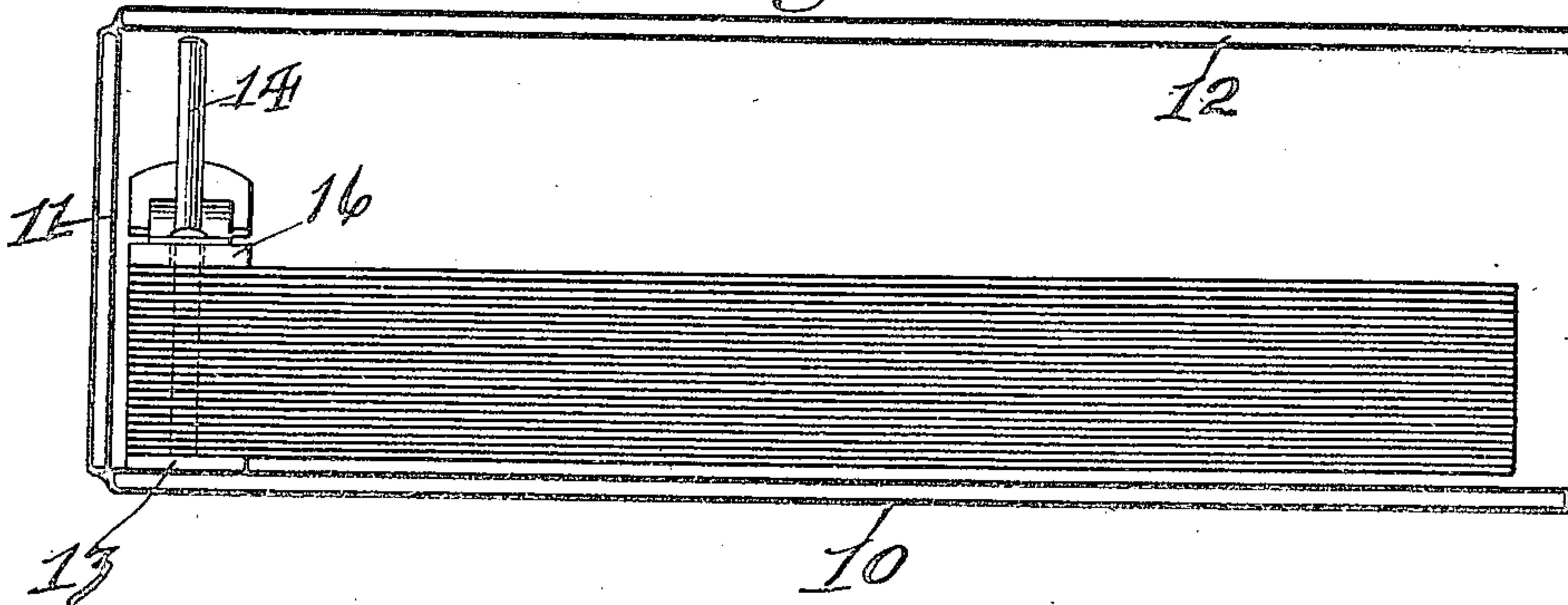


Fig. 2.

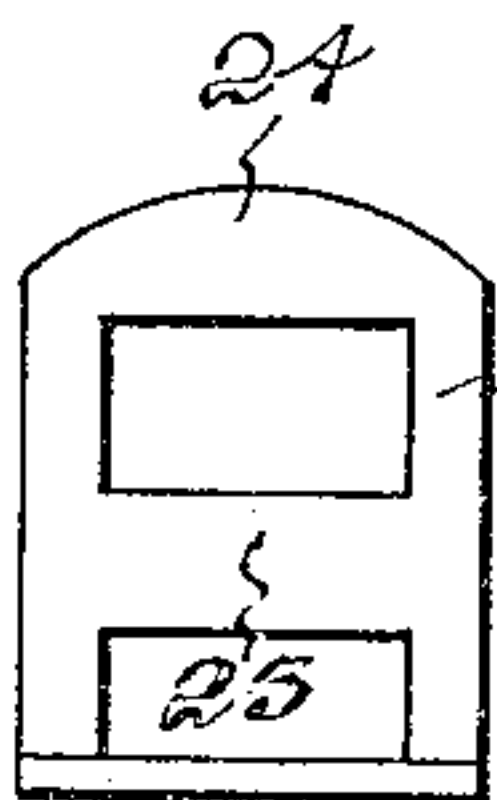
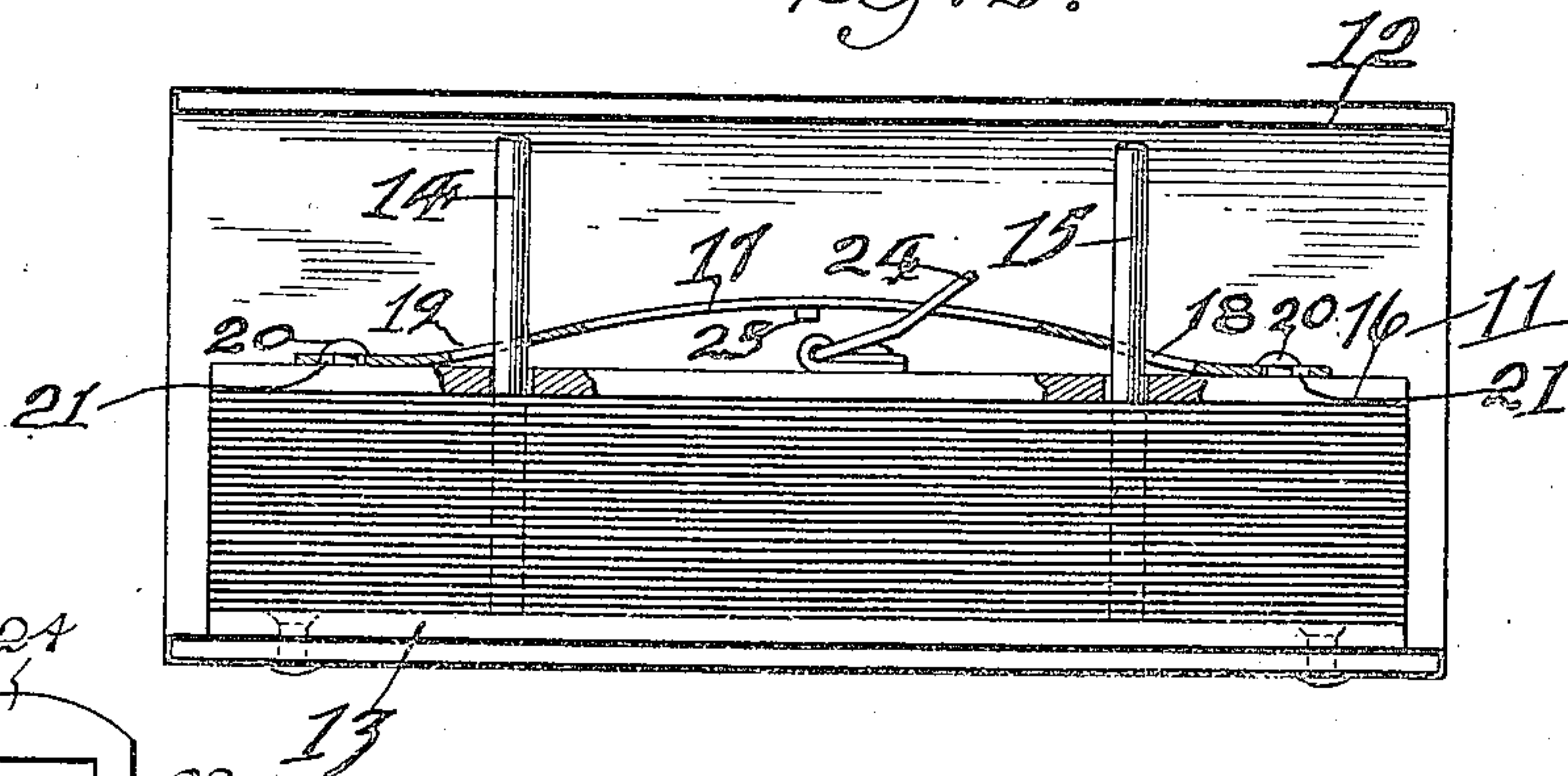


Fig. 5.

Fig. 3.

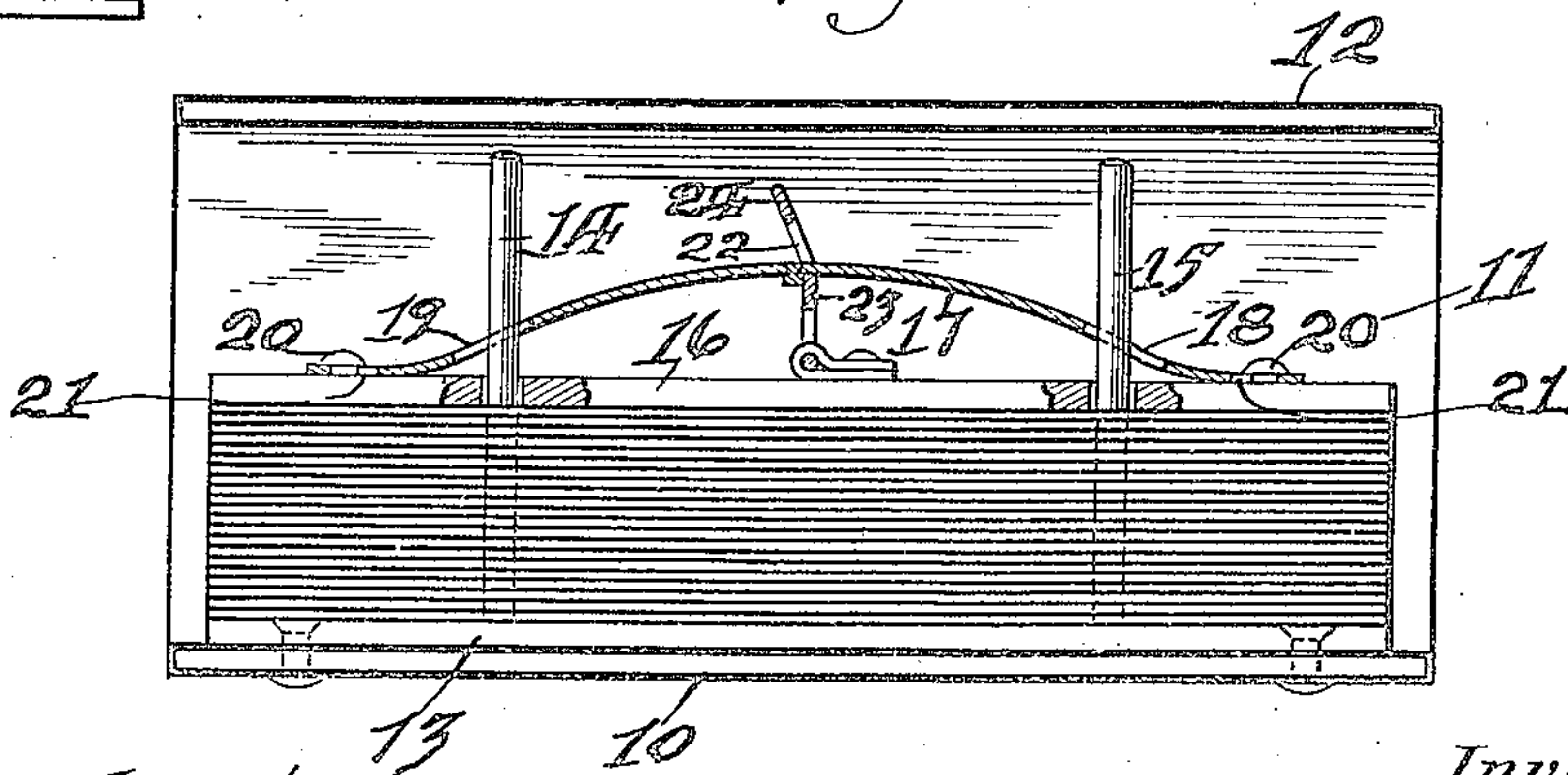
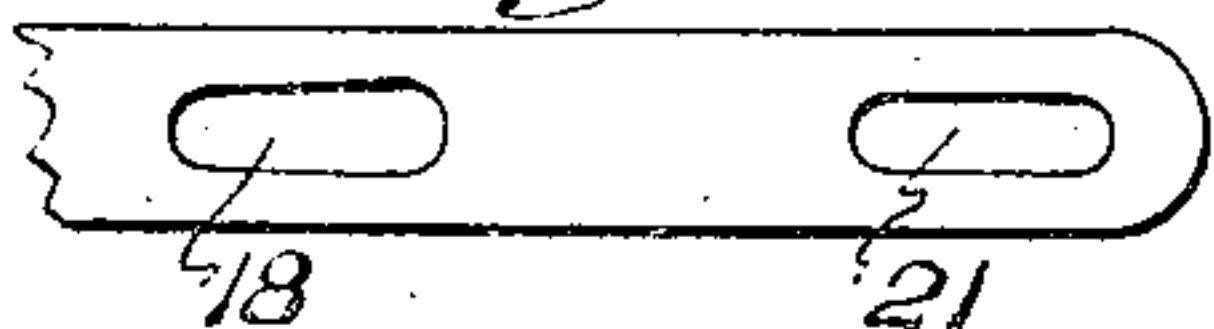


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES F. McBEE, OF ATHENS, OHIO, ASSIGNOR TO THE McBEE BINDER COMPANY, OF ATHENS, OHIO.

LOCKING DEVICE FOR LOOSE-LEAF FILES.

Application filed December 30, 1918. Serial No. 269,013.

To all whom it may concern:

Be it known that I, CHARLES F. McBEE, a citizen of the United States, residing at Athens, in the county of Athens and State of Ohio, have invented a certain new and useful Improvement in Locking Devices for Loose-Leaf Files, of which the following is a specification.

The object of my invention is to provide a locking means for file sheets of a loose-leaf binder which will be simple, strong and durable in construction, and adapted for use in connection with the posts of a binder on which the papers are threaded, in such a manner as to add strength to the posts, rather than to weaken them as is ordinarily the case.

My invention consists of the details of construction hereafter pointed out in the specifications and claim and illustrated in the drawings in which:

Fig. 1 shows a side elevation view of my device applied to a loose leaf file;

Fig. 2 shows a front elevation view of the same, a portion of the parts being broken away and illustrated in section, the lever being shown in the position it assumes when the device is locked, and

Fig. 3 shows a similar view, the lever being elevated to the position it assumes when not locked. In this view the entire spring, and part of the lever, is shown in section.

Fig. 4 is a detail view of a fragment of the spring.

Fig. 5 is a detail view of the lever.

Similar reference numerals refer to similar parts throughout the entire specification.

Referring to the accompanying drawing, the reference numeral 10, is used to indicate the lower cover of a loose leaf file, the numeral 11, the back, and the numeral 12, the upper cover thereof. Secured to the lower cover is a strip of metal 13, or the like, to which is secured two upwardly projecting and parallel posts 14 and 15. The numeral 16, indicates a cover plate orificed to fit over the posts 14 and 15, and designed to move upwardly and downwardly thereon. The numeral 17, indicates a lock spring orificed at 18 and 19, to register with the orifices in the plate 16, by means of rivets 20, or

the like, passing through elliptical slots 21, in the said lever, as shown. The orifices 18 and 19, are elliptical and are also broader at their outer ends than at their inner ends.

Secured centrally in the plate 16, and underlying the lock spring 17, is pivotally secured a lever 22, provided with a shoulder 23, and having a projecting end 24, by which it is designed to be rotated upwardly from its mounting, during which operation the shoulder 23 engages and elevates the central portion of the lock spring 17. Obviously, the elevation of the central portion of the lock spring 17, pulls inwardly each of the ends of the lever, which, as before stated, are secured to the plate 16 by rivets 20, passing through oblong orifices. The construction of the parts is such that as each end of the lock spring 17 is pulled inwardly by the elevating of the lever, 22, the orifices 18 and 19, in the said spring will be in line with their respective orifices in the plate 16, and the posts 14 and 15 on which the lock spring 17 is threaded will lie freely within their respective orifices in the lock spring 17, without contact with the sides of the said orifices.

When the lever 22 is moved downwardly the lock spring 17 tends to flatten out and moves outwardly at each end, by means of the oblong slots permitting the lever to slide to a limited distance at each end, on its securing rivets and the construction is such that the inner walls of the orifices in the lock spring 17 engage and bind their respective posts thus locking the plate 16, at the determined point on the posts. A lug 25, is provided on the lower surface of the lock spring 17, to determine the upper limit of movement on the lever 22.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States, is:

In a loose-leaf file having a cover and a plurality of upwardly extending rods the combination with a plate having openings which fit said posts, of a lock spring having elliptical openings adjacent each end, rivets in said plate, the shanks of which pass through said openings, there being elongated openings in said spring which register with the said posts, said openings tapering

inwardly and being narrower at their inner
ends than the diameter of the posts, a lever
intermediate the lock spring and the plate, a
shoulder on said lever, the end of said lever
5 projecting upwardly from the plate for man-
ual operation whereby when the lever is ele-
vated, the shoulder will elevate said spring
and cause the openings in register with the

posts to engage said posts and lock the plate
against vertical movement.

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In testimony whereof I have signed the
foregoing specification.

CHARLES F. McBEE.

Witnesses:

L. D. VORE,

H. R. RAMSEY.