March 2, 1926. 1,575,591

G. W. NEWMAN

RING BOOK LOCK

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Fig 1

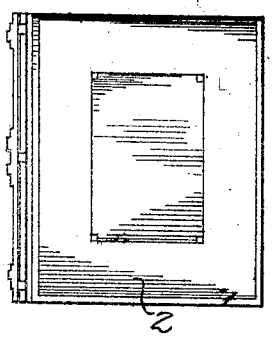



Fig 2

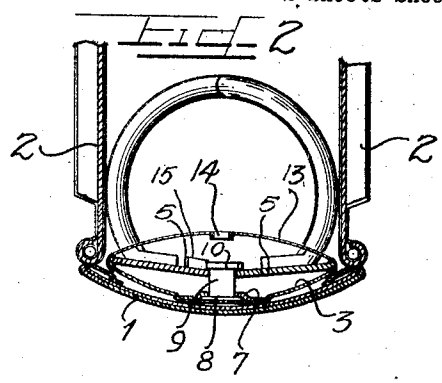



Fig 3

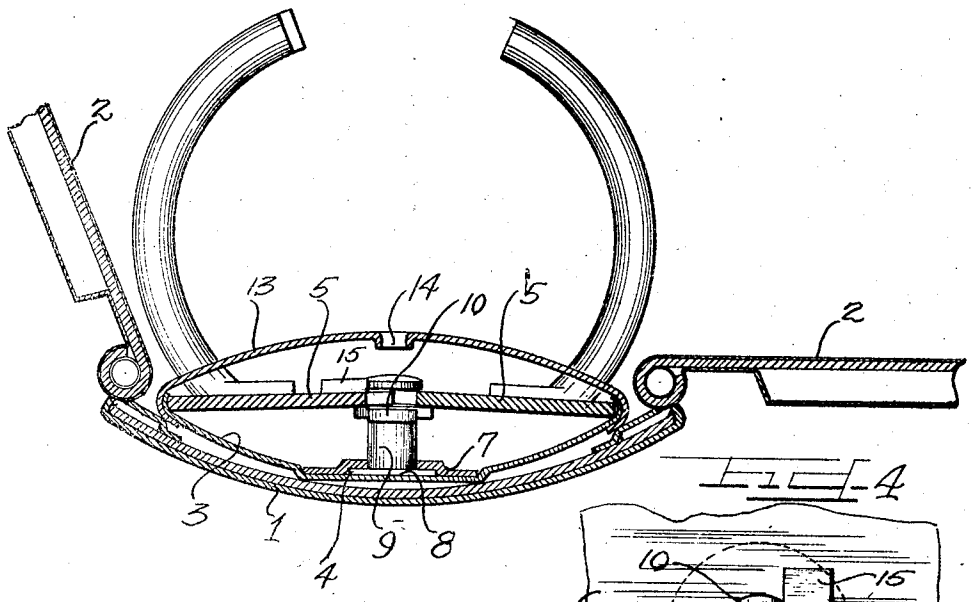
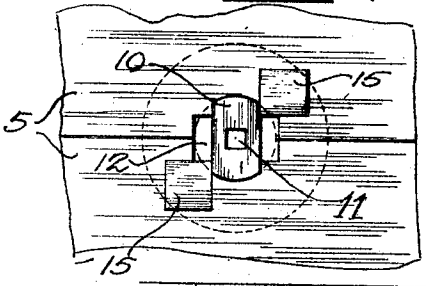



Fig 4




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FIG 5

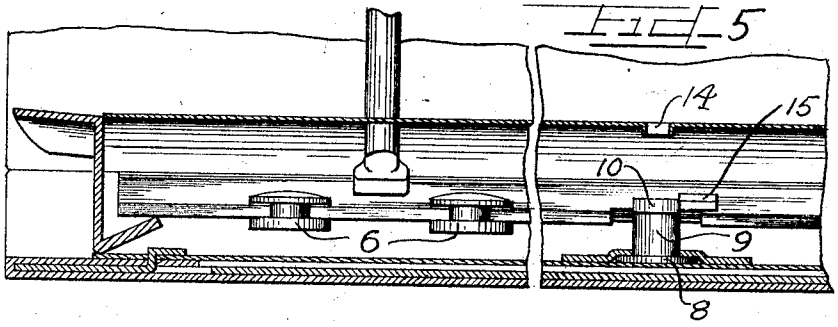



FIG 6

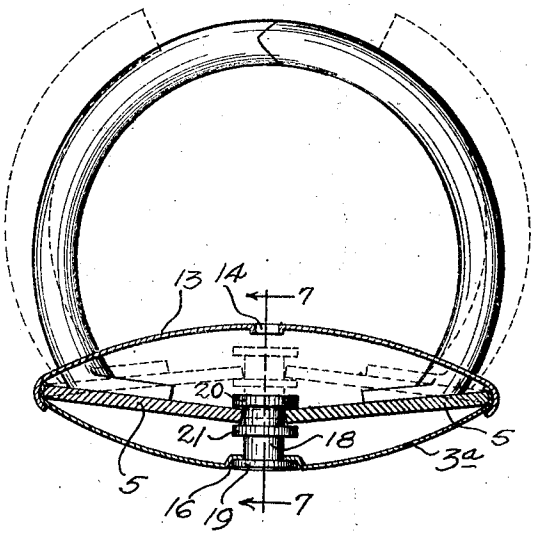



FIG 8

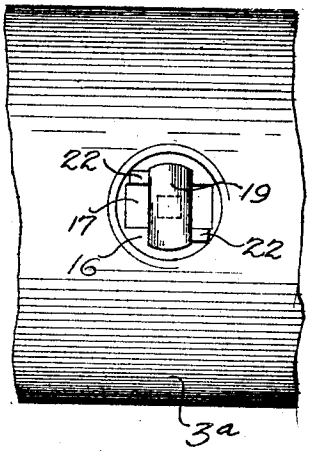
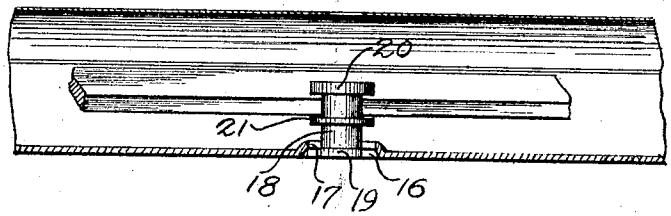



FIG 7




INVENTOR

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By Charles Hall & Co.

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Patented Mar. 2, 1926. 1,575,591

# UNITED STATES PATENT OFFICE.

GEORGE W. NEWMAN, OF CHICAGO, ILLINOIS, ASSIGNOR TO WILSON-JONES LOOSE LEAF COMPANY, A CORPORATION OF MASSACHUSETTS.

## RING-BOOK LOCK.

Application filed May 31, 1924. Serial No. 716,888.

*To all whom it may concern:*

Be it known that I, GEORGE W. NEWMAN, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Ring-Book Lock; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the numerals of reference marked thereon, which form a part of this specification.

This invention relates to a ring book of that type involving rockable or tiltable book carrying members, which may be tilted upwardly to open the rings or tilted downwardly for closing the rings.

This invention concerns itself primarily with means for locking the book carrying members in either of their tilted positions in order that the ring book may be locked in either open or closed position.

The invention comprises the novel structure and combinations hereinafter described and more particularly pointed out and defined in the appended claims.

In the accompanying drawings which illustrate a preferred embodiment of this invention and in which similar reference numerals refer to similar features in the different views,

Figure 1 is a top plan view of a ring book involving this invention.

Figure 2 is an enlarged fragmentary transverse sectional view through the ring book.

Figure 3 is an enlarged view similar to Figure 2 but showing the ring hooks in open position.

Figure 4 is an enlarged fragmentary top plan view of the loose leaf holding mechanism showing the locking means.

Figure 5 is an enlarged fragmentary longitudinal sectional view through the lower part of the ring book.

Figure 6 is an enlarged transverse sectional view through the leaf holding mechanism showing an alternate form of the invention.

Figure 7 is an enlarged fragmentary longitudinal sectional view upon the line 7—7 of Figure 6.

Figure 8 is a bottom plan view of Figure 6.

In referring now to the drawings, especially to Figures 1 to 5, it will be observed that the binder generally consists of a back 1 and covers 2 which are hinged to the back. A housed resilient plate 3 having a depression 4 is suitably secured interiorly of the back and provided with marginal lips for retaining the rockable or tiltable hook carrying plates or members 5. The abutting edges of these plates 5 are loosely connected for conjoint tilting movement by means of studs 6, so that they function somewhat in the manner of a toggle.

An apertured washer or cap 7 is secured in the depression 4, the central part of this washer is upwardly offset to provide a space for rotatably receiving the head 8 of a locking device which is shown as being in the nature of a stud 9 extending through the aperture in said securing cap. The upper end of this stud is provided with an elongated head 10 having a key hole 11. The adjacent edges of the toggle plates 5 are cut out to provide a slot 12 through which the head 10 may pass when properly alined. Above the key hole slot 11, the cover plate 13 of the leaf holding mechanism is provided with a suitable aperture 14 for receiving a key. The hook carrying plates are also preferably provided with stop members 15 to limit the rotation of the stud 9 in both directions so that the locking head may be brought to a stop in locking and unlocking positions.

In Figures 6, 7 and 8 the bowed plate $3^a$ is provided with a depression 16 through which a slot 17 extends. The locking stud 18 in this form has an elongated head 19 which is designed to pass through the slot 17 when the same is properly alined therewith. However, when the same is positioned transversely of the slot it serves to lock the toggle plates 5 from being tilted upwardly. The upper part of the stud 18 is provided with a pair of spaced collars 20 and 21 which overlap the upper and lower surfaces of the toggle plates through which the stud extends. The upper end of this stud 18 is likewise provided with a key hole slot for receiving a key which may be inserted through a suitable aperture 14 in the cover plate 13. A pair of stops 22 are preferably provided in the depression 16 for limiting the rotation of the locking stud 18 to locking and unlocking positions.

The locking stud in either form is adapted

to be rotated to locking and unlocking position by a suitable key. When the locking head has been rotated to the position shown in Figures 4 and 8 the ring holding members are in locked position against upward tilting movement. However, when either stud is rotated to bring the locking head in alinement with its slot, it will pass therethrough and allow upward tilting movement of the ring holding members. If it is desired to lock the ring hooks in open position, the locking stud may be rotated to bring the locking head thereof in a position transversely of the slot to preclude the same from passing therethrough as is obvious.

I am aware that numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted otherwise than necessitated by the prior art.

I claim as my invention:

1. In a ring book, a pair of toggle plates, a bowed plate for retaining the same for conjoint tilting movement, and a releasable member connecting said toggle plates and bowed plate.

2. In a ring book, a pair of toggle plates, a bowed member for retaining said toggle plates for conjoint tilting movement, and a rotatable device releasably connecting said plates and member.

3. In a ring book, a pair of toggle members, a bowed member for retaining said toggle members for conjoint tilting movement, and a member connecting said members and bowed member, and rotatable for severing its connection with one of said members.

4. In a ring book, hook carrying members, means for retaining the same for limited movement, and a device for locking said members in closed position.

5. In a ring book, hook carrying members, means for confining the same for limited movement, and a device having limited movement and in engagement with said members for locking the same in a predetermined position.

6. In a ring book comprising tiltable hook carrying members, a bowed member for retaining the same for conjoint tilting movement, and a stud having means for connecting said tiltable and bowed members, and operable for disconnecting the same.

7. In a ring book comprising hook carrying members having limited movement and a manually operable member for locking said first members at one limit of movement.

8. In a ring book comprising rockable hook carrying members, a resilient member for retaining the same, a locking stud connecting said hook carrying members and resilient member and rotatable for releasing one of said members, and means for limiting the rotation of said member.

In testimony whereof I have hereunto subscribed my name.

GEORGE W. NEWMAN.