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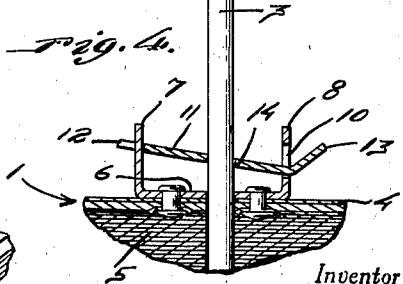
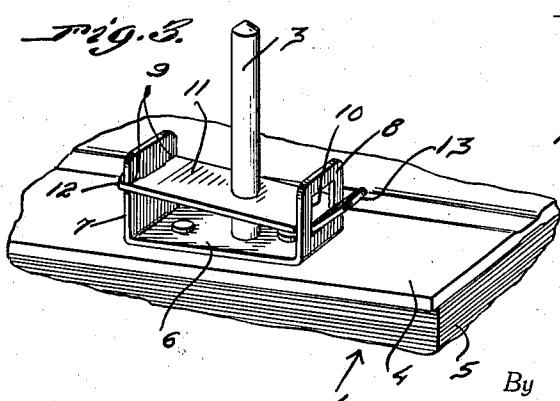
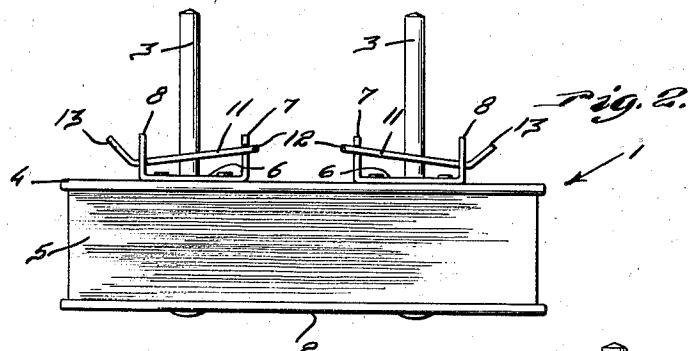
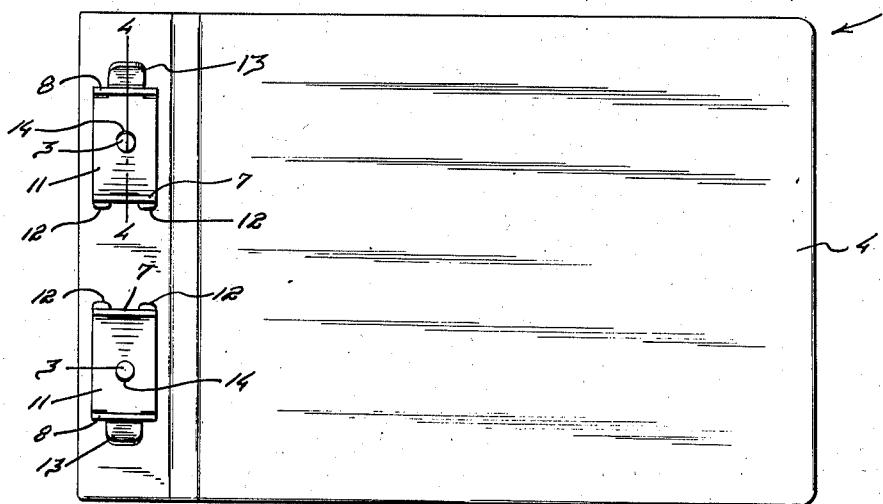
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2,267,349

LOOSE-LEAF BINDER LOCK

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Fig. 1.



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## UNITED STATES PATENT OFFICE

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## LOOSE-LEAF BINDER LOCK

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corporation of Georgia

Application January 31, 1941, Serial No. 376,904

1 Claim. (Cl. 129—12)

This invention relates to loose leaf binder locks of a generally similar nature to that constituting the subject matter of my Patent No. 2,233,512, dated March 4, 1941, upon which device the present invention constitutes an improvement.

The primary object of this invention is to provide a loose leaf binder lock of the aforementioned character embodying a unique construction and arrangement whereby greater strength, durability and ease of operation are had.

Other objects of the invention are to provide a loose leaf binder lock of the character described which will be simple in construction, compact, highly efficient and reliable in use and which may be produced at comparatively low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a top plan view, showing a loose leaf binder equipped with a pair of locks constructed in accordance with the present invention.

Figure 2 is a view in rear elevation thereof.

Figure 3 is a perspective view of one of the locks on the binder.

Figure 4 is a vertical sectional view, taken substantially on the line 4—4 of Figure 1.

Referring now to the drawing in detail, it will be seen that the reference numeral 1 designates generally a loose leaf binder which includes a base 2. Rising from the rear marginal portion of the base 2 is a pair of posts 3 of suitable metal. Slidably mounted on the posts 3 is a removable cover 4. The base 2 and the cover 4 are adapted to receive therebetween a stack of loose leaves 5 through which the posts 3 pass.

Rigidly secured on the rear portion of the cover 4 is a pair of elongated metallic plates 6 through which the posts 3 also pass. Rising from the ends of the elongated plates 6 are integral ears 7 and 8. Extending into the ears 7 from the vertical edges thereof are slots or notches 9. The ears 8 have formed therein openings 10.

Mounted for swinging movement on the ears 7 are locking dogs or clutch members 11 of suitable metal. Projecting from one end of the locking dogs 11 and integral therewith are spaced lugs or projections 12 which are engaged in the slots or notches 9.

The free ends of the locking dogs 11 are en-

gageable with the ears 8 for preventing withdrawal of the lugs 12 from the notches 9. Projecting from the free ends of the locking dogs 11 are upwardly inclined tongues 13 which extend through the openings 10 and which are operable therein. The tongues 13 are integral with the locking dogs 11. The posts 3 pass through openings 14 which are provided therefor in the locking dogs 11.

10 In use, the leaves 5 are placed on the posts 3 and the cover 4 is mounted thereon. As the cover 4 is slipped downwardly on the posts 3 the locking dogs 11 tend to swing upwardly toward a substantially horizontal position as they 15 slide on said posts. However, upward pressure on the cover 4 causes the dogs 11 to swing downwardly and frictionally grip the posts 3 thereby locking the cover 4 in position. The locking dogs 11 are preferably of somewhat harder metal than the posts 3. To remove the cover 4 it is only necessary to place the fingers beneath the tongues 13 and lift. Thus, the locking dogs 11 are swung upwardly for releasing the posts 3 and permitting the cover 4 to be raised. The tongues 13, traveling in the openings 10, function as guides for the free ends of the locking dogs 11 as well as for lifts for said locking dogs. Still further, when the tongues 13 engage the upper walls of the openings 10 they limit the upward swinging 30 movement of the dogs 11.

It is believed that the many advantages of a loose leaf binder lock constructed in accordance with the present invention will be readily understood and although a preferred embodiment 35 of the device is as illustrated and described, it is to be understood that changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

40 In a loose leaf binder of the type including a base, a post rising from said base and a removable cover slidable on said post, a lock including vertical elements mounted on the cover on opposite sides of the post, one of said elements having side edge slots therein, the other of said elements having an opening therein, a locking dog including lugs on one end engaged in the slots for pivotally mounting said dog on said one element, said dog being slidable on the post and frictionally engageable therewith for releasably 45 securing the cover against movement in one direction thereon, and a tongue on the free end of the dog operable in the opening in said other element.

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