F. WISNICWSKI.

LOCK.

APPLICATION FILED JUNE 8, 1918.

1,297,284.

Patented Mar. 11, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

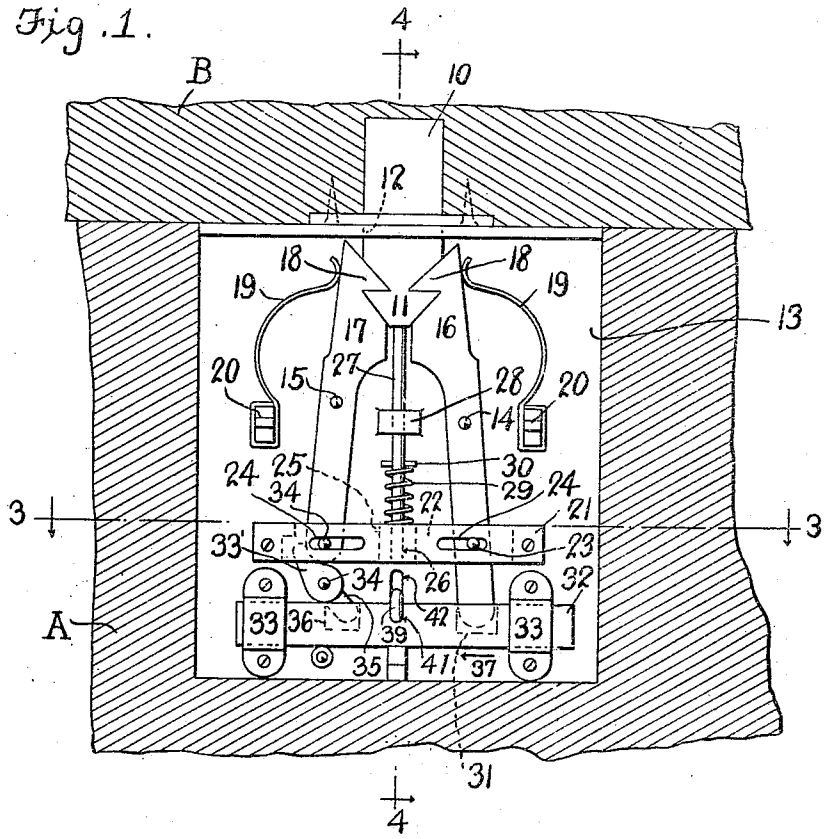


Fig. 5

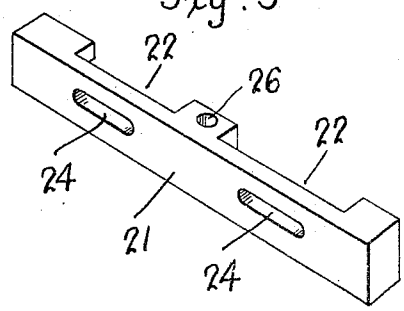
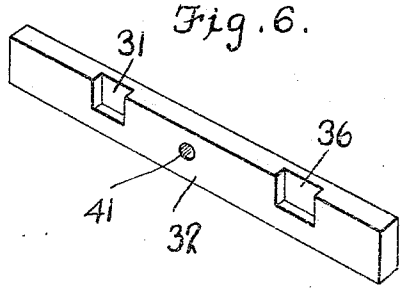


Fig. 6.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

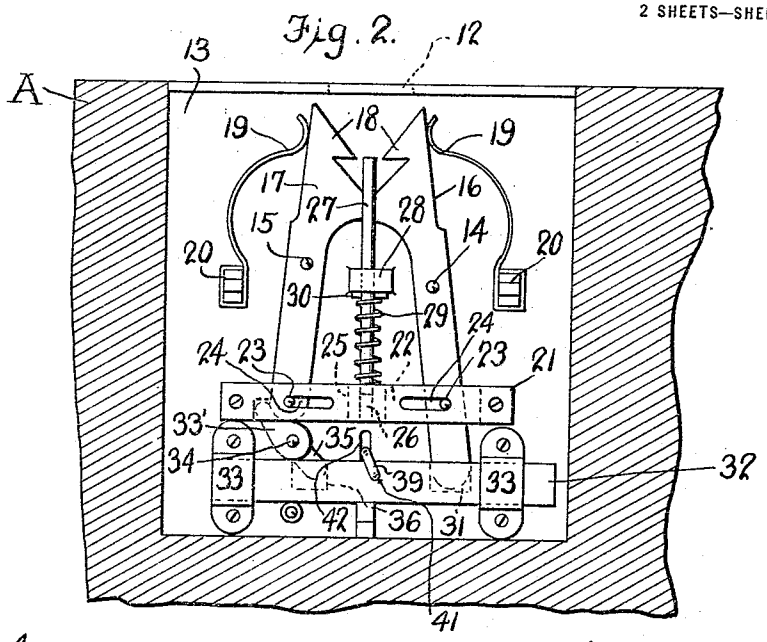


Fig. 4.

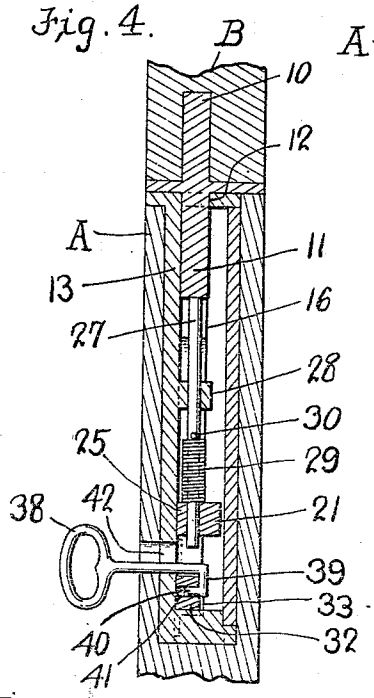


Fig. 3.

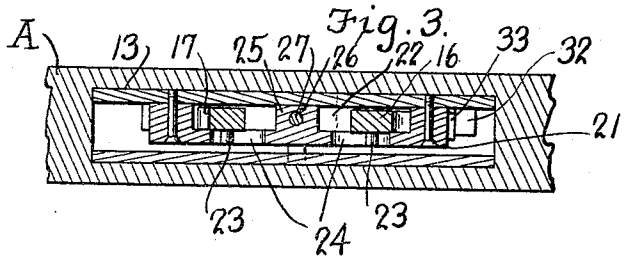


Fig. 7.

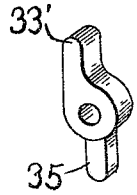
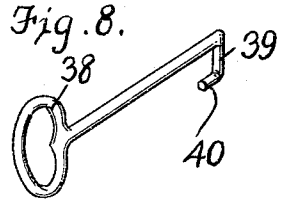


Fig. 8.



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LOCK.

1,297,284. Specification of Letters Patent. Patented Mar. 11, 1919.

Application filed June 8, 1918. Serial No. 238,871.

To all whom it may concern:

Be it known that I, FRANK WISNICWSKI, a citizen of the United States, residing at Washington, in the county of Washington and State of Pennsylvania, have invented new and useful Improvements in Locks, of which the following is a specification.

This invention relates to locks especially adapted for use upon trunks, sliding doors and the like and aims to provide means for automatically locking and holding the same in such locked position until released by an especially designed key.

To this end the invention comprehends the provision of a novel form of spring actuated latches so disposed as to receive and engage between their adjacent ends, a tongue; the latter being held in such engaged position until, through the medium of a key acting upon instrumentalities located within the lock casing, they are released.

One of the novel features of the invention resides in the provision of a spring actuated bolt, contacting the end of the tongue and acting to force the latter from the lock upon the release of said tongue by the spring actuated latches, so that in the event of the lock being applied to a trunk, the lid which carries the tongue will be automatically and partly raised.

Another novel feature resides in the means for operating the latches to release the tongue, which consists of a transversely removable bar directly engaging one of the latches, while a pivoted dog is interposed between the other latch and the bar so as to move their adjacent ends in opposite directions when the bar is operated.

Other novel features and advantages of the invention, will appear when the following description is read in connection with the accompanying drawings, in which:—

Figure 1 is an elevation of a fragmentary section of a trunk looking at the adjacent portions of the body proper and the lid, parts being broken away and a portion of the lock casing removed to better illustrate the lock, the trunk being shown in locked position;

Fig. 2 is a similar view with the locking tongue removed;

Fig. 3 is a sectional view on the line 3—3 of Fig. 1;

Fig. 4 is a similar view on the line 4—4 of Fig. 1;

Fig. 5 is a detail perspective view of the guide bar;

Fig. 6 is a similar view of the transversely movable operated bar;

Fig. 7 is a like view of the actuated dog; and

Fig. 8 is a detail view of the operating key.

In the accompanying drawings, the lock is shown as applied to a trunk, but it is understood that it is equally well adapted for various other uses, for example, the sliding door of dwellings or for car doors and the like.

A portion of the body of the trunk is illustrated at A, while the adjacent portion of the lid is indicated at B, the latter carrying a tongue which is indicated by the numeral 10. This tongue projects beyond the body of the lid and is formed with an arrow head 11, which is adapted to enter and pass through an opening 12 formed in the edge of the lock casing 13, the latter being preferably mortised within the body A of the trunk.

Pivotally mounted within the casing 13 upon studs 14 and 15, are a pair of oppositely disposed latches 16 and 17 respectively. One end of each of the latches 16 and 17 is provided with a hook member 18, which is adapted to engage the arrow head 11 of the tongue 10 and to be normally held in such engagement through the medium of springs 19. These springs are secured upon posts 20, which also serve to space the opposite plates of the casing 13 apart.

Disposed transversely of the latches 16 and 17, is a locking bar 21, which is secured to one of the plates of the lock casing 13 and is cut away as shown at 22 to provide a slot adjacent each end thereof for each of the latches 16 and 17. These latches also carry pins 23, which operate in guide slots 24 in the bar 21.

The cut away portions 22 of the bar 21 provide a central lug 25, within which is located a transversely disposed opening 26, for the reception of a bolt 27. This opening 26 acts to guide one end of the bolt 27, the opposite end being guided in a lug 28. The bolt 27 projects beyond the lug 28 for

contact with the end of the tongue 10 and is normally forced into such contact through the medium of a spring 29, which surrounds the bolt and is positioned between the lug 25 and a pin 30 carried by the bolt.

The latch 16 extends beyond the guide bar 21 and has its extremity reduced for engagement with the walled slot 31, provided in a transversely movable operating bar 32, the latter being guided in U-shaped brackets 33 secured to one of the plates of the lock casing 13. The other latch 17 terminates beneath the bar 21 and is engaged at this end by the end of a dog 33, the latter being pivoted as shown at 34 to the lock casing. This dog is provided with a finger 35, engageable with the walls of a transversely formed slot 36 provided in the operating bar 32. By this construction a movement of the operating bar 32 in the direction of the arrow 37 shown in Fig. 1 will cause the adjacent ends of the latch 16 and 17 to move inward or in opposite directions, moving outward or opening the opposite ends of this latch to release them from engagement with the tongue 10. When this occurs the bar 27 under the influence of the spring 29 will force the tongue 10 outwardly and automatically raise the lid B.

A movement of the bar 32 is accomplished through the medium of a key 38, provided with a U-shaped end 39, the extremity 40 of which engages an opening 41 provided in the bar 32. This key enters an opening 42 provided in the face of the lock, the opening being of sufficient size to permit of the removal and insertion of the key.

The invention is susceptible of various changes in its form, proportion and minor details of construction and it is desired that it be understood that the form illustrated herein is for the purpose of explaining the construction and operation thereof and the right is therefore reserved to make such changes as fall within the scope of the appended claims.

Having described the invention what is claimed is:—

1. A lock comprising a pair of oppositely disposed spring actuated latches, a tongue extending within the lock for engagement with one end of said latches, means located within the lock and normally contacting with the tongue for automatically forcing the latter from the lock, a transversely movable bar engageable with one of said latches and a pivoted dog interposed between said bar and the other latch, whereby the latches will be moved in opposite directions to release the tongue.

2. A lock comprising a pair of oppositely disposed pivoted spring actuated latches, a tongue adapted to extend within the lock for engagement with one end of said latches, an operating bar and means whereby a transverse movement of said operating bar will cause the latches to swing upon their pivots to release the tongue.

3. A lock comprising a pair of oppositely disposed pivoted spring actuated latches, a tongue adapted to extend within the lock for engagement with one end of said latches, a transversely movable operating bar engageable with the opposite end of one of said latches and a pivoted dog engageable with the locking bar and the adjacent end of the other latch, whereby movement of said bar will swing the adjacent ends of the latches inwardly and release the tongue.

In testimony whereof I affix my signature.

FRANK WISNICWSKI.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."