

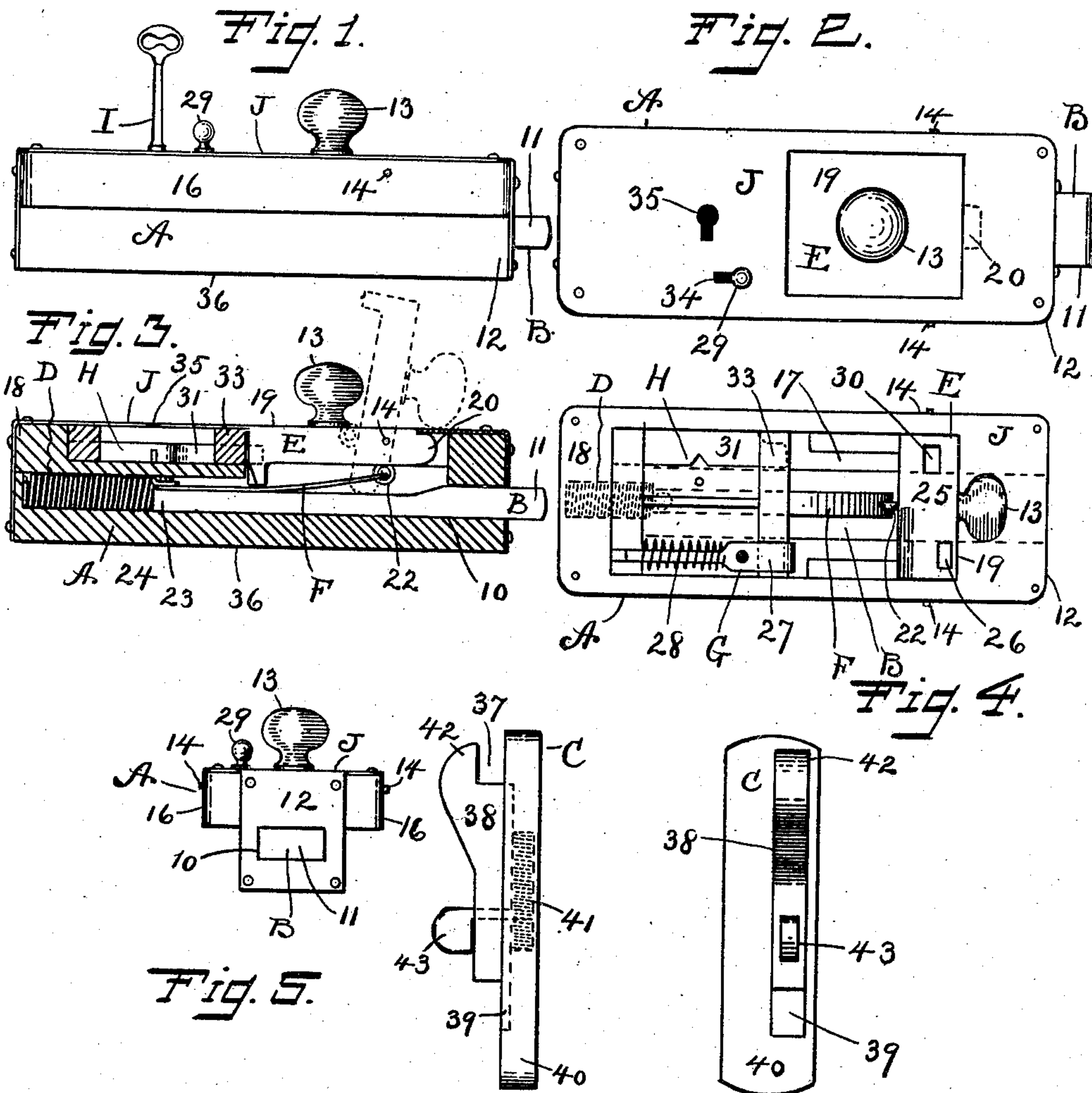
N. TRIANTAFILU.

LOCK.

APPLICATION FILED APR. 12, 1910.

986,657.

Patented Mar. 14, 1911.



Witnesses:-

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# UNITED STATES PATENT OFFICE.

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## LOCK.

986,657.

Specification of Letters Patent.

Patented Mar. 14, 1911.

Application filed April 12, 1910. Serial No. 555,000.

*To all whom it may concern:*

Be it known that I, NICHOLAS TRIANTAFILU, a citizen of Greece, residing in New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Locks, of which the following is a specification.

My invention relates to improvements in locks, and the objects of my improvements are simplicity and economy in construction and convenience and efficiency in use.

In the accompanying drawing:—Figure 1 is a side view of my lock with the swinging arm closed. Fig. 2 is a plan view of the same. Fig. 3 is a central longitudinal section of the same, certain parts being shown in side elevation. Fig. 4 is a plan view of my lock, with the swinging arm open, and the apron removed. Fig. 5 is an end view of my lock. Fig. 6 is a side view of my keeper. Fig. 7 is a front view of the same.

A is the body of my lock and comprises a longitudinal passage 10 at the rear which for the greater part of its length is a fit for and operatively receives a bolt B which may be projected forward so that its outer end or nose 11 will project outward so as to overhang the corresponding nose end 12 of the body A and be in position to engage with a keeper C and in opposition to a spring D located at the opposite end of the said passage 10 by means of a swinging arm E having a handle or knob 13, or which may be retracted by the said spring and housed within the body A, and free from the said keeper C. The said swinging arm or door E is pivotally mounted in the said body A by two lateral pivots 14, one on each side and appreciably inward from the said nose end 12, the said pivots being located in side walls 16 of the said body A. The said swinging arm E when in closed position generally fills an approximately square opening 17 in the body A, between the said nose end 12 and the operating end 18 remote from the said nose end 12.

As shown in the closed position in Fig. 2 the main body portion 19 and handle or knob 13 of the arm E are at the left of the pivots 14 and nose end 12 and a tail 20 at the end of said arm E on the side of the pivots 14 remote from the said main body portion 19 projects toward the said nose end, and may be covered or concealed by the cover J. The said tail 20 has a pivotal connection 22 with

one end of a strap F the other end of which is connected with the inner end 23 of the said bolt B essentially at the junction 24 of the same and the spring D and travels longitudinally with the same. Accordingly, the tendency of the said spring D is to retract the bolt B and at the same time to swing or tilt the said arm E on its pivots 14 so as to assume a position essentially perpendicular to the general body A, as shown by dotted lines Fig. 3 the limiting means for the position being the knob 13 in engagement with the said cover J.

The inward end of the body portion 19 of the arm E has two recesses 26 and 30 extending away from the end face 25 which serve as keepers for longitudinally reciprocating bolts adapted to hold the said arm E within its receiving space 17 in the body A in opposition to the said spring D, one 26 of the said recesses engaging with a bolt 27 of a spring latch G, actuated by a spring 28 and a handle 29 and the other recess 30 engaging with a bolt 31 of a key operated lock mechanism H, operated by a key I. As described, the said arm E may be held in the closed position in opposition to the spring D by either the spring latch G or the key operated lock mechanism or auxiliary lock H, or both, and in which position the bolt B will be in position for engagement with a keeper C. Furthermore, the withdrawal of the said bolt B is always accompanied by the opening of the said arm E, which with the lock in position on the front of a door would be conspicuous and prominent and would serve as a warning and sign that the door was unlocked. The operator would accordingly close the same either in a latched condition by utilizing the latch G or in the full locked position by means of the said auxiliary lock H, as desired. The said key lock mechanism or auxiliary lock H is shown as of elementary character, and in place of the same an auxiliary lock may be employed of the most approved and reliable character. The mechanism end 18 of the said body A is chambered for housing the said latch G and auxiliary lock H and has adjacent the arm E a partition wall 33 that is pierced to admit and guide the bolts 27 and 31, and is closed on the front by the cover J having a slot 34 for the latch knob 29 and key hole 35 for the key I. The back 36 of the body A is entirely closed.



As described, my lock is not operative on the back side by means of a key or in any other way, the back 36 as stated being entirely closed.

5 In order to permit opening and closing the door from the back side when the lock is in normal position on a door and operative by means of a key from the front side and the bolt is in position for engagement with  
10 the keeper, I make the keeper C of essentially spring latch construction, comprising an open bolt slot 37 in a sliding spring actuated keeper 38, sliding longitudinally in a slot 39 in a body or frame 40, as shown, the  
15 movement being vertical. The keeper 38 is projected normally to the engaging position by a spring 41 so that the nose 42 forming the outer wall of the bolt slot 37 may engage with the said bolt B and may be retracted  
20 from such engaging position by means of a handle 43.

I claim as my invention:

1. In a lock mechanism comprising a  
25 body, a bolt, a door pivotally mounted intermediate its ends in the said body, connected by one end to said bolt, and having an operating handle between the other end and the pivotal axis, a spring tending to retract said bolt and open said door, the said handle  
30 adapted to close said door and protect said bolt in opposition to the said spring, and a

lock on said body and adapted to engage with the said door and lock the same closed.

2. In a lock mechanism comprising a body, a bolt, a door mounted in said body by  
3 pivots intermediate its ends, connected by one end to said bolt and having an operating handle adjacent the other end, a spring housed in said body and tending to retract  
40 the said bolt and to open said door, the said handle serving as a means of closing said door and projecting the said bolt in opposition to the said spring, and a lock adapted to engage with the said door and lock the same closed and the bolt projected. 45

3. In a lock having a front wall, an opening in said wall, a door pivotally mounted, normally fitting the said opening and adapted to swing outwardly so as to expose  
50 said opening, a handle on the front face of said door and adapted as a stop to limit the amount of opening of the said door, a bolt connected to said door and adapted to be projected and retracted by the closing and  
55 opening of the said door, a spring tending to open said door and retract said bolt, and key operated locking mechanism adapted to lock said door in the closed position.

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Witnesses:

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