

LOCK.

982,125.

Patented Jan. 17, 1911.

Fig. 2.

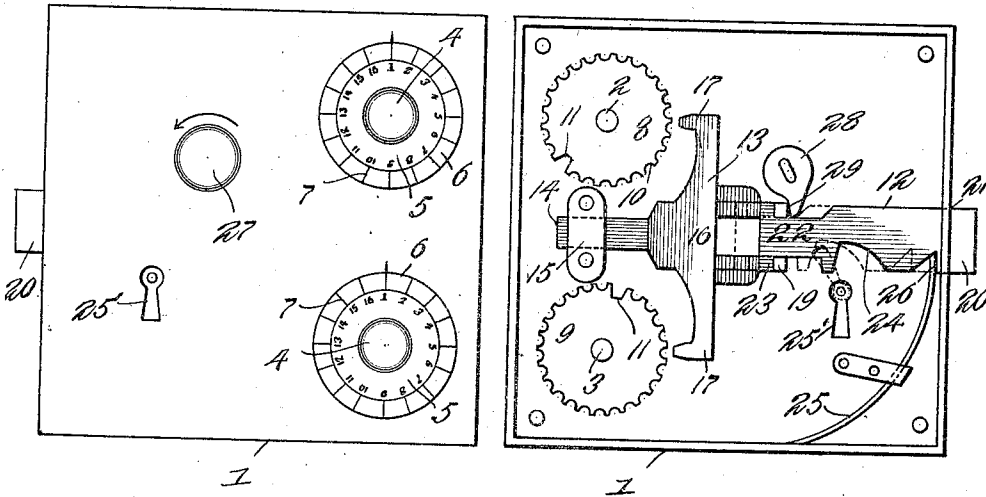
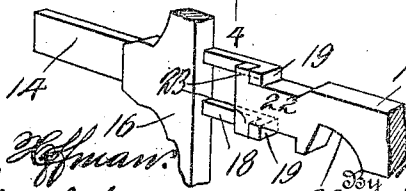
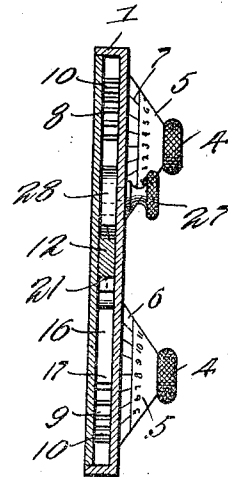
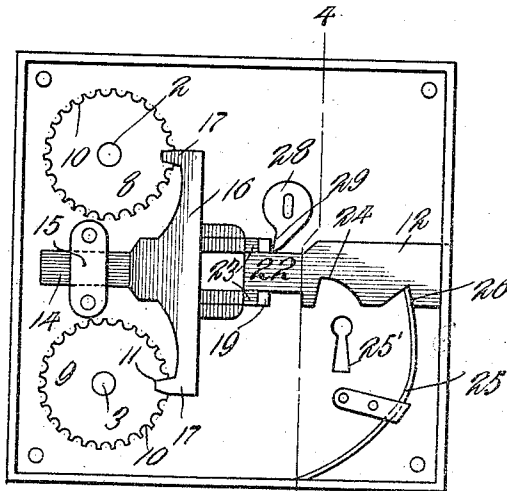


Fig. 4.



Witnesses,

Frank B. Hoffman.

D. W. Gould. Aug. 5.

Inventor

Charles C. Chapman

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

CHARLES C. CHAPMAN, OF MEDFORD, OKLAHOMA.

LOCK.

982,125.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES C. CHAPMAN, a citizen of the United States, residing at Medford, in the county of Grant and State of Oklahoma, have invented new and useful Improvements in Locks, of which the following is a specification.

The invention relates to an improvement in locks, and is particularly directed to a lock adapted to be operated by a combination or by a master key independent of the combination.

The main object of the present invention is the provision of a lock which may be controlled and operated through the knowledge of the combination or in which the locking bolt may be shifted by a master key independent of the combination, whereby a number of locks may be set on different combinations to be operated only by the individuals knowing such combinations and yet be capable of being opened by an authorized person having a master key.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is an elevation of the lock. Fig. 2 is a rear elevation with the rear wall of the casing removed, the lock bolt being shown in projected position. Fig. 3 is a similar view with the lock bolt retracted by the use of the combination devices. Fig. 4 is a section on line 4—4 of Fig. 3. Fig. 5 is a broken perspective of the lock bolt.

Referring particularly to the accompanying drawings, the improved lock includes a casing 1 of any desired size, in which near the relatively rear edge are mounted the combination disk studs 2 and 3. The outer ends of these studs are provided with operating knobs 4 carrying numbered disks 5 designed to register with an annular band 6 fixed upon the front wall of the casing and carrying the usual radial lines 7 with which the numbers on the disks 5 are to be properly arranged for forming the combination with which the lock is set, all of which is of the usual construction of combination locks. On the studs 2 and 3 within the casing are secured the lock disks 8 and 9 formed in their peripheral edges with a series of indentations 10 and with a releasing notch 11. Mounted for movement between the disks 8 and 9 is a locking bolt made up of a bolt section 12 and a slide

section 13. The slide section is formed at its rear end to provide a guide strip 14 designed to slide in a bracket 15 secured to the inner surface of the front wall of the casing, said slide section in advance of the guide 14 being provided with a transverse locking bar 16, having rearwardly projecting lugs 17 at the respective terminals. From the cross bar there are forwardly projected spaced parallel bars 18, having their forward ends provided with outwardly projecting lugs 19.

The bolt section 12 of the lock comprises the usual nose end 20 designed to slide through an aperture 21 formed in one end wall of the case in the locking operation. The rear end of the bolt section is reduced in width, as at 22, to slidably fit between the lugs 19 of the slide section, the bolt section at the rear end of the reduced portion being formed with laterally projecting lugs 23, which are designed to ride upon the bars 18 and in the forward position of the bolt section to engage the rear surface of the lugs 19 of the slide section. The lower edge of the bolt section is provided with a key recess 24 and the face of the casing 1 is formed with a keyhole 25, so that in the introduction and turning of a key the bits thereof will engage the rear wall of the recess and retract the bolt section. A leaf spring 26 is secured in the casing 1, bearing at its free end in a recess 26 formed in the bolt section, whereby the bolt section is normally projected into locking position. At an appropriate point the casing is provided with an operating handle 27, the stud of which projects within the casing and is provided with a disk head 28 having a projection 29 designed to bear normally upon the relatively upper edge of the reduced portion 22 of the bolt section directly forward of the relatively upper lug 19 of the slide section.

In use when the combination disks are properly set, the recesses 11 in the locking disks 8 and 9 will be so arranged that in the rearward movement of the bolt as an entirety the lugs 17 of the cross bar 16 will enter said recesses, as shown in Fig. 3. When it is desired, therefore, to operate the lock by the combination devices, the disks are arranged in proper order to permit such movement and the handle 27 turned to cause the projection 29 to bear against the adjacent lug 19 and move the same in the rear-

ward direction. As the lugs 19 bear against the lateral lugs 23 of the bolt section, said section will, in the operation described, be retracted to withdraw its nose portion into unlocked position. If, however, it is desired to operate the lock by the master key without regard to the combination, it will be obvious that the bolt section may, by such key, be freely moved to unlocked position independent of the slide section.

It is, therefore, seen that the improved lock is adapted for use by a person having knowledge of the combination and without the master key, or by a person having a key without knowledge of the combination. The lock is, therefore, particularly adapted for use under those conditions in which two or more persons should have access to the receptacle protected by the lock, as in post office boxes, rural mail boxes, and the like, wherein it is desirable that the individual users of the boxes control their locks by the combinations known only to themselves, while the proper postal authority can open any and all boxes at pleasure by the use of the master key.

I claim:—

1. A lock including a casing, a lock bolt therefor, said bolt comprising forward and rear sections disposed in longitudinal alignment, the forward section being formed to project beyond the casing to engage the lock

keeper, the meeting ends of the sections being connected to permit independent endwise sliding movement of the sections, manually adjustable means adapted when set in a certain position to permit movement of the rear section, and means engaging the rear section in advance of the connection between the sections to operate the bolt as an entirety, said forward section being formed to permit its operation by a key independently of the rear section.

2. A casing, a locking bolt therefor made in sections, said sections being arranged in longitudinal alinement and their meeting ends connected for independent sliding movement, a cross bar carried by the rear section and terminally formed to provide lugs, a notched disk arranged adjacent each lug and formed with a recess to receive the lug when the disk is in a predetermined position, and means mounted in the casing to engage the rear section in advance of its connection with the forward section to operate the bolt as an entirety, said forward section being formed to permit its independent operation by a key.

In testimony whereof I affix my signature in presence of two witnesses.

CHAS. C. CHAPMAN.

Witnesses:

R. S. WOODY,

JOHN S. ROBINSON.