

A. SKÓRA.
DOOR LOCK.

APPLICATION FILED OCT. 2, 1920.

1,379,839.

Patented May 31, 1921.

2 SHEETS—SHEET 1.

FIG 1

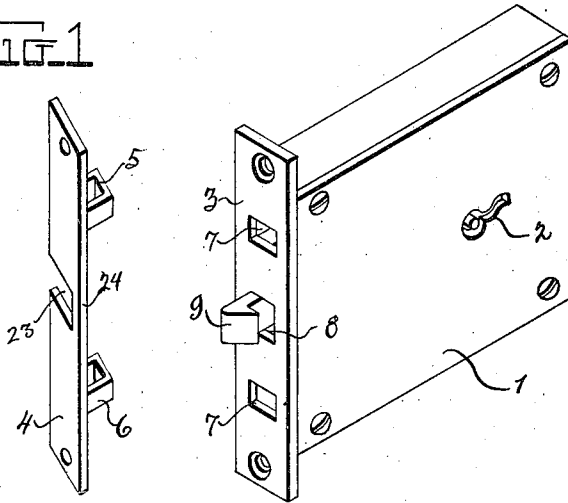
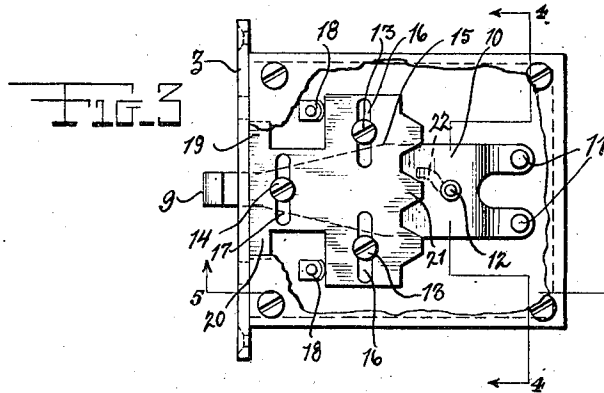
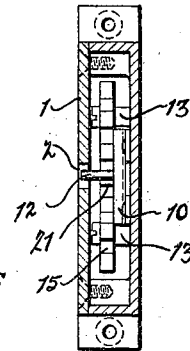
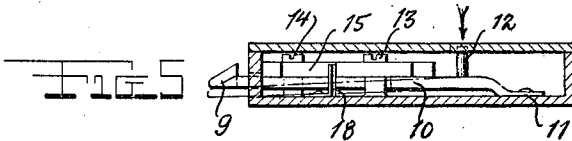
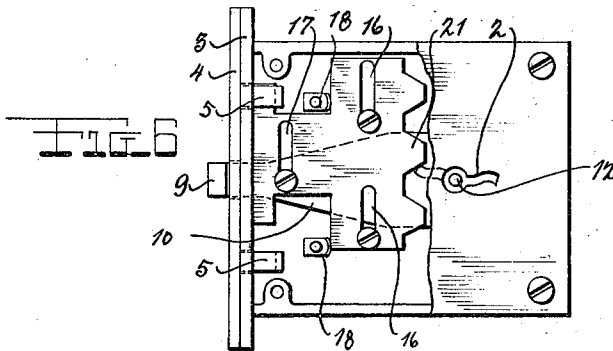


FIG 2

FIG 4



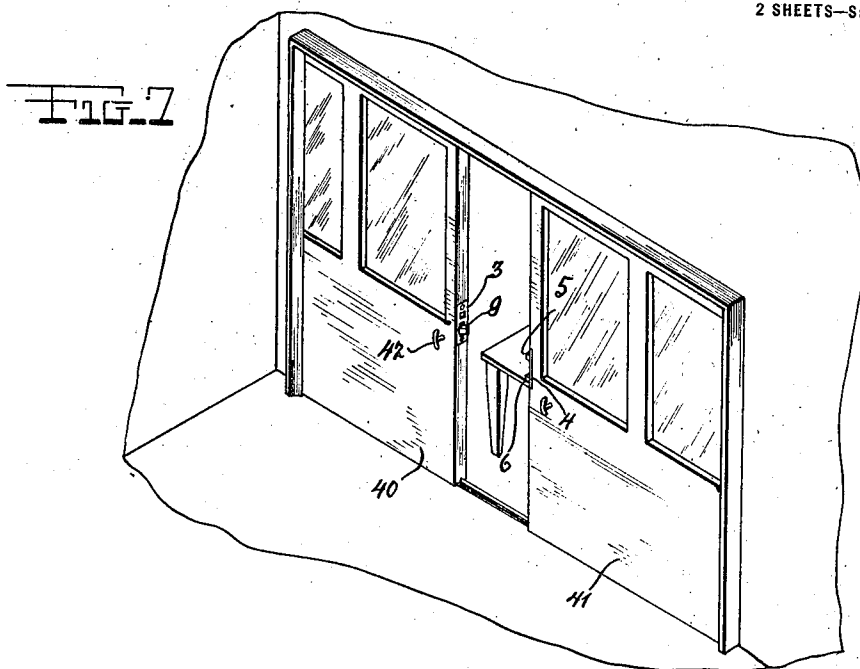
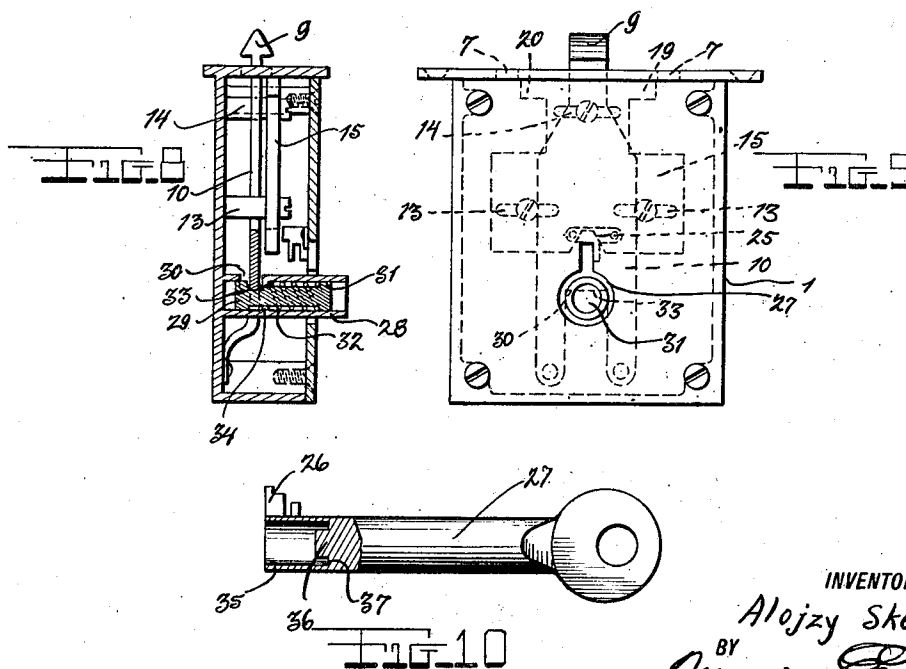
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ALOJZY SKÓRA, OF PASSAIC, NEW JERSEY.

DOOR-LOCK.

1,379,839.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALOJZY SKÓRA, a citizen of Poland, residing at Passaic, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Door-Locks, of which the following is a specification.

The main object of this invention is to provide a lock of novel construction and operation, which may be opened only by a person who is acquainted with the manipulation of the key therefor, and which cannot be opened by another even with the possession of the key.

The above and other objects will become apparent in the description below, in which characters of reference refer to like-named parts in the drawings.

Referring briefly to the drawings, Figure 1 is a perspective view of the strike plate of my lock.

Fig. 2 is a perspective view of the main portion of my lock.

Fig. 3 is a front elevational view of my lock, with the cover partly removed.

Fig. 4 is a cross-sectional view taken on the line 4-4 of Fig. 3.

Fig. 5 is a plan view of my lock with the upper frame member removed.

Fig. 6 is a front elevational view of the lock with the cover partly removed, showing the bolt in a different position.

Fig. 7 is a perspective view showing the application of my lock to a sliding door.

Fig. 8 plan view, partly in section, of a modified form of my lock.

Fig. 9 is a side elevational view of the same.

Fig. 10 is a view, partly in section, of the key used with my modified form.

Referring now in detail to the drawings, the numeral 1 represents the main casing of the lock, provided with a key hole 2 and with the usual face plate or member 3 having upper and lower recesses 7, and a central recess 8, therein. The strike plate is indicated at 4, being adapted to be attached to the wall against which the door is to be locked, and is provided with upper and lower loops which are adapted to enter the recesses 7.

A semi-arrow-head-shaped extremity 9 protrudes through the recess 8, the same being integral with a resilient, substantially flat member 10 attached to the inner wall of the lock by rivets 11, said member

10 being provided with a post 12 registering with the keyhole 2 and adapted to receive said key about the same.

A pair of guide screws 13 are attached to the inner wall of the lock in vertical alinement and in spaced apart relation, and a third similar screw 14 is similarly attached to one side of the screws 13 and adjacent the recess 8. A bolt 15 is slidably mounted within said frame by means of slots 16 and 17 being engaged by the screws 13 and 14, respectively, said bolt being vertically slidable and having an upwardly projecting tongue 19 adjacent the upper recess 7, and a downwardly projecting tongue 20 adjacent the lower recess 7. Guides 18 are further provided to constrain said bolt to vertical motion.

The bolt 15 is further provided with a tongue or cam 21 lying in the path of the wing (shown dotted at 22) of the key, it being readily apparent that, by turning said key in one direction, the bolt 15 will be raised, and by turning the key in the reverse direction, the bolt will be made to descend. Likewise, it is apparent that raising the bolt causes engagement of the tongue 19 with the loop 5 (when the door is closed), and lowering the bolt will cause engagement of the tongue 20 with the shackle 6. However, a neutral position is provided, as shown in Fig. 3, in which neither of the tongues 19 and 20 is engaged by a loop, so that at such time the door will be unobstructed by said loop. Thus it is obvious that, in order to release the door from said loop, the operator must be careful to turn the key only so far as will bring the bolt to the neutral position, for farther turning of the key will cause one of the tongues to engage its neighboring shackle.

As aforementioned, the member 10 is resilient. A recess 23 is provided in the center of the strike plate 4, having a limiting edge 24. The resiliency of the member 10 urges the head 9 thereof forward, so that, when the door is closed, said head will engage the edge 24 and will thus prevent opening of the door. Therefore, in order to open the door as aforementioned by turning the key, said key must first be pushed inward so as to force the member 10 back and thereby disengage the head 9 from the edge 24, allowing the same to be withdrawn.

The modified form shown in Figs. 8 and 9, together with the key of Fig. 10, is sub-

stantially similar to that just described. However, instead of the tongue 21 the bolt 15 is provided with a recess 25, within which the bit 26 of the key 27 is inserted.

5 The frame 1 is provided with a keyhole 27, and within said hole 27, rigid with the frame 1, is a tubular member 28 provided with a slot or recess 30 through which the shoulder 31 of the member 10 enters said

10 tubular member. A pin 29 is slidably mounted within said member 28, and is recessed at 33, the shoulder 31 lying against said pin in said recess 33. The head of the pin 29, near the open end of the tubular

15 member, is flanged at 31, and between said flange and the ridge 34 inside said member 28, a coiled spring 32 is mounted, which normally urges said pin outward, so that, consequently, the head 9 of the member 10

20 is normally urged into engagement with the edge 24 of the strike plate when the door is closed.

The key 27, in addition to the wing 26, is hollowed out to provide the cylindrical

25 tubular end 35, which is adapted to fit over the member 28. Inside the end 35 is provided a central boss 36, separated from the wall 35 by a circular space 37, the boss being adapted to engage the head 31 when

30 the key is inserted in the keyhole 27. Thus, it is apparent, the pin is forced to the left (Fig. 8), carrying with it the member 10, and thereby releasing the head of latter from the edge 24 and allowing withdrawal

35 of the door, provided, of course, that the key 27 is then turned in accordance directions for turning the key as previously outlined.

Thus it is apparent that I have provided

40 a lock which is both substantial and compact in construction and easily operable by one acquainted with the proper manipulation, though difficult to an unauthorized person.

45 The illustration in Fig. 7 a door is shown

at 40, provided with my lock, the wall 41 having the strike plate 4 attached thereto. In case it is desired to dispense with the key, a permanent handle 42 may be mounted pivotally in said door in place of the key. 50

I claim:

1. A device of the class described comprising a casing adapted to be secured to a door, a member adapted to be secured to a wall adjacent said door, shackles projecting from said member, a bolt movable parallel to the walls of said frame, recesses in said casing, said shackles being adapted to enter said recesses, tongues on said bolt adapted to engage said shackles within said casing, an additional recess in said casing, a recess in said member, a resilient member secured within said casing and having a head on the end thereof protruding through said additional recess and adapted to engage said recess in said first-named member. 55 60 65

2. A device of the class described comprising a casing adapted to be secured to a door, a member adapted to be secured to a wall adjacent said door, loops projecting from the upper and lower ends of said member, a recess in the center of said member, recesses in the upper and lower ends of the face plate of said casing adjacent said wall and in the center thereof, a bolt movable parallel to the walls of said casing having an upwardly projecting tongue and a downwardly projecting tongue adapted to engage respectively the upper and lower of said loops, a resilient member secured within said casing and having a head on the end thereof protruding through said central recess in the side of said casing, a cam extending from said bolt, a keyhole in said casing adjacent said cam, and guides for said bolt rigid with said casing frame. 70 75 80 85

In testimony whereof I affix my signature.

ALJZY SKÓRA.