

H. G. VOIGHT.

LOCK.

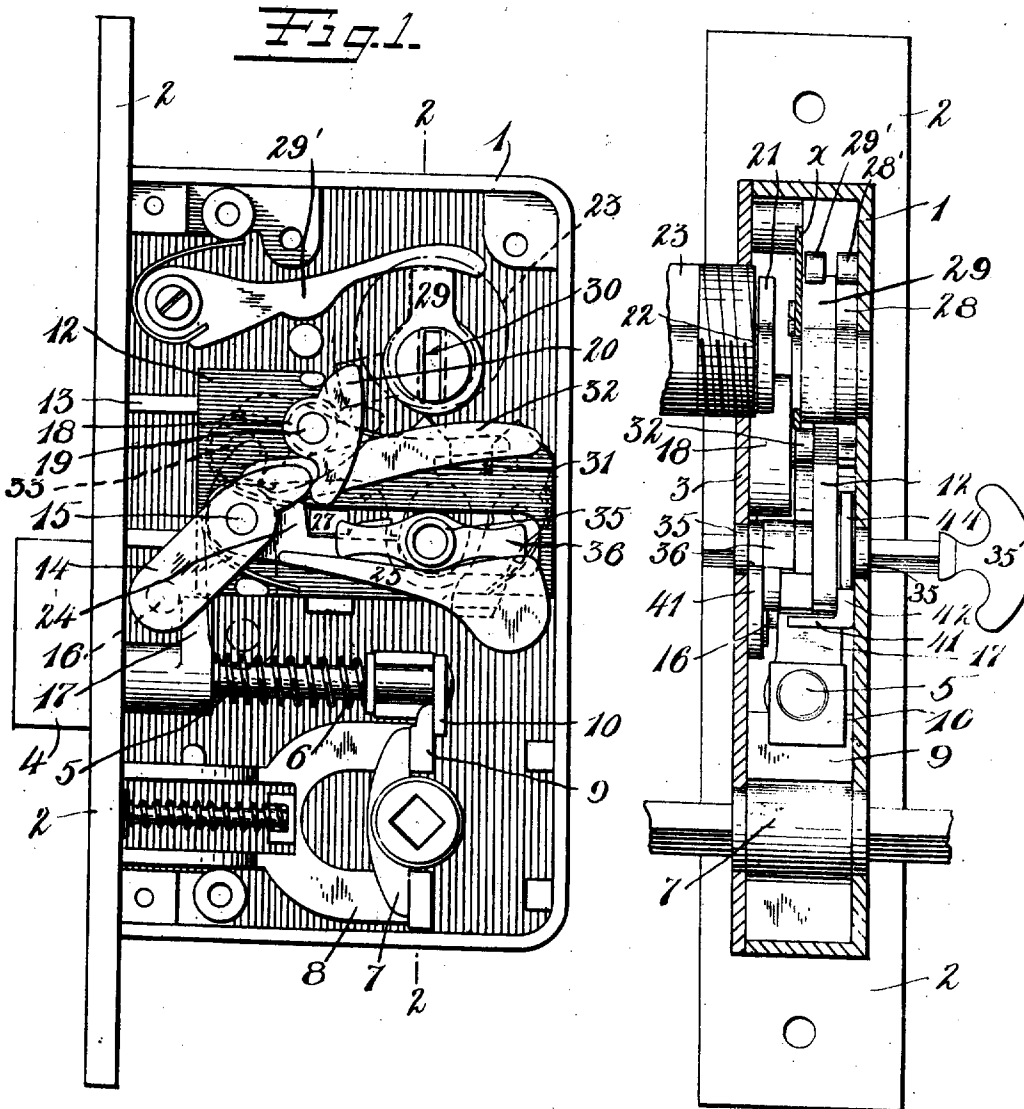
APPLICATION FILED JUNE 24, 1910.

973,728.

Patented Oct. 25, 1910.

3 SHEETS—SHEET 1.

Fig. 2.



WITNESSES

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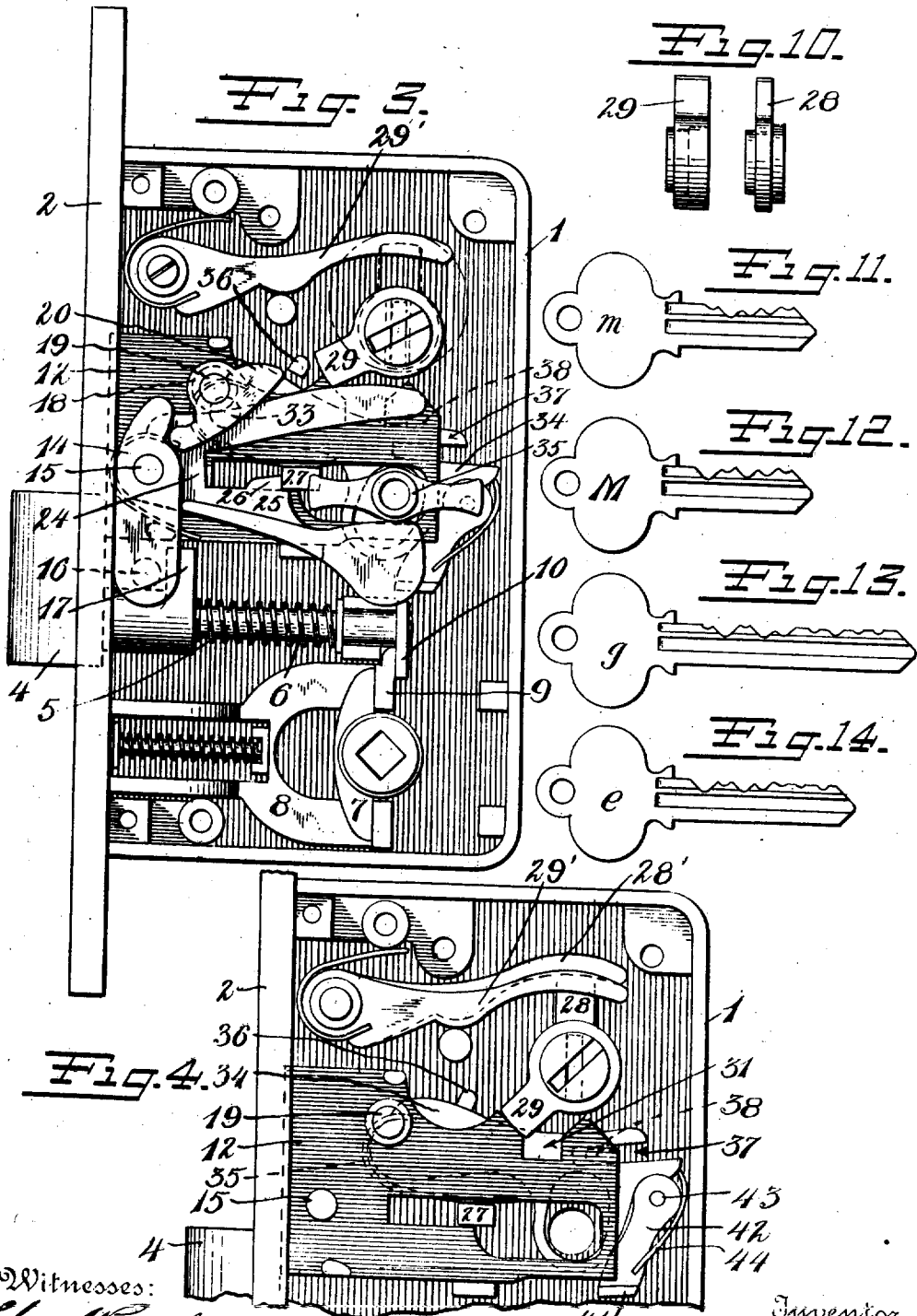
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3 SHEETS-SHEET 2.



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3 SHEETS-SHEET 3.

Fig. 5.

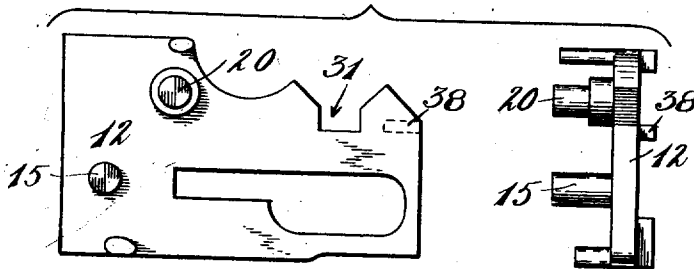


Fig. 6.

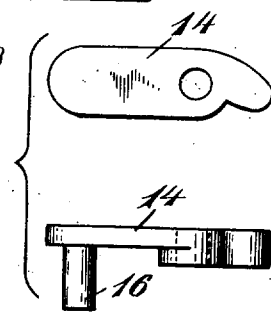


Fig. 7.

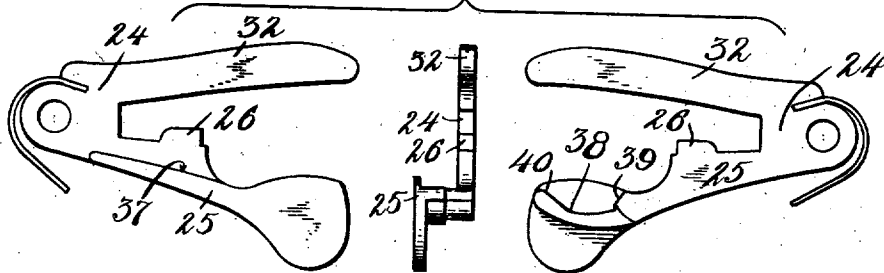


Fig. 8.

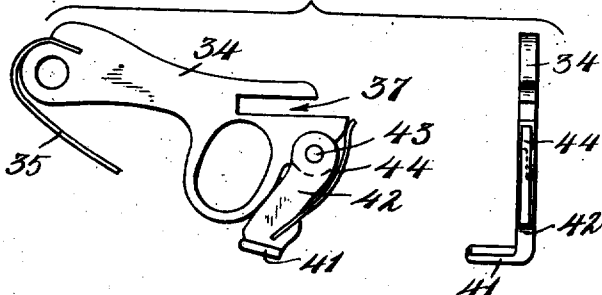
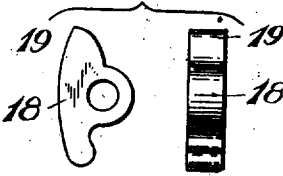


Fig. 9.



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LOCK.

973,728.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY G. VOIGHT, a citizen of the United States, residing at New Britain, county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Locks, of which the following is a full, clear, and exact description.

My invention relates to improvements in so-called corridor door locks, such as are particularly adapted for use in hotels.

In locks of this character it is common practice to provide mechanism which may be operated by a plurality of keys, such as a guest key, a master key for the use of the chambermaid on a single floor, a grand-master key for the use of the housekeeper and adapted to operate the locks on all floors, and a so-called emergency or proprietor's key by which access may be gained to all rooms under all circumstances and by which the lock may be so set that it cannot be operated by any but the emergency key. It is also common practice to provide such locks with mechanism such as the thumb-turn operable from the inner side, by which the latch bolt may be dead-locked against any key but the emergency key.

My invention contemplates improvements in locks of this particular construction whereby while the lock may be operated under ordinary conditions by all of the keys, it may be dead-locked against operation by the master and grand-master keys when locked by the guest key or the emergency key.

A further object of the invention is to provide the lock with mechanism operable from the inner side, such as a thumb-turn, by which the latch bolt may be dead-locked from the inside against operation by the master and grand-master keys, but may be operated from the outside by a duplicate guest key held by one of two occupants of a room and also by the emergency key.

Finally, my invention contemplates mechanism by which the latch bolt may be dead-locked by the emergency key against operation from the outside by the duplicate guest keys as well as the master and grand-master keys, but in which the latch bolt may nevertheless be operated from the inside by the thumb-turn.

In the particular embodiment of my invention herein disclosed, the same includes

so-called cylinder lock mechanism for operation of the latch bolt, but it is to be understood that my invention is not confined to this particular style of lock mechanism.

With the above objects in view, my invention consists in the construction and arrangement of parts, a preferred embodiment of which is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the lock with the cap or cover removed and looking toward the inner side of the door. Fig. 2 is a sectional view on the line 2—2 Fig. 1, looking to the left, with the cap plate and cylinder lock mechanism in place. Fig. 3 is a view similar to Fig. 1, showing the dead-locking mechanism in one of its dead-locking positions. Fig. 4 is a fragmentary view similar to Fig. 3, showing the dead-locking mechanism in another of its dead-locking positions. Fig. 5 comprises a side elevation and end view respectively of the dead-locking slide detached. Fig. 6 comprises a side elevation and plan view of one of the latch operating levers. Fig. 7 comprises opposite side elevations and an end view respectively of a tumbler for the dead-locking slide. Fig. 8 comprises a side elevation and end view respectively of the guard or emergency tumbler of the dead-locking slide. Fig. 9 comprises a side elevation and edge view of an intermediate lever cooperating with the latch operating lever. Fig. 10 comprises edge views of the key controlled cam arm for actuating the dead locking slide and cooperating with the guard tumbler respectively. Figs. 11, 12, 13 and 14 are views of the master, grand-master, guest and emergency keys respectively.

In the embodiment of my invention herein selected for illustration, 1 indicates the lock case having a face plate 2 and a cap plate 3 of the usual construction.

4 is a spring-actuated latch bolt mounted in suitable guide-ways within the lock case and having a stem 5 upon which is mounted a spring 6, by which the latch bolt is normally projected in the usual manner.

7 is a roll-back which cooperates with a spring slide 8 having a projection 9 engaging the cross head 10 on the stem of the latch bolt by which said latch bolt may be retracted by operation of said roll-back 7. It is to be understood, however, that in the con-

struction here shown only the knob on the inner side of the door is capable of operating the roll-back 7, the knob on the outer side being idle or stationary.

5 Above the latch bolt 4 a dead-locking slide 12 is mounted on suitable guide-ways 13 in the lock case, upon which slide a latch operating lever 14 is pivoted at 15, said lever having a stud 16 which normally lies in the
10 path of a projection 17 on the latch bolt stem. The opposite end of said latch bolt operating lever 14 is arranged to engage one end of a lever 18 pivoted at 19 also upon the dead-locking slide 12. The opposite end
15 20 of said intermediate lever 18 is arranged to lie normally in the path of a cam arm 21, Fig. 2, secured to the inner end of the cylinder plug 22 of a cylinder lock mechanism 23, in the usual manner, whereby when said
20 cam 21 is rotated by a suitable key, the latch bolt 4 may be retracted through the intermediate lever 18 and the latch operating lever 14.

With the mechanism in the position shown
25 in Fig. 1, the latch bolt may be retracted through the cam 21 by means of any of the keys of the series above referred to. The master key in Fig. 11 and the grand-master key (Fig. 12), however, are only of sufficient
30 length to extend through the key plug of the cylinder lock and operate only the cam 21 thereof. In order to dead-lock the latch bolt against operation by the master and grand-master keys, the dead-locking slide
35 12 may be moved from the position shown in Fig. 1 to that shown in Figs. 3 and 4, whereby the intermediate lever 18 and latch bolt operating lever 14 are moved out of
40 range of the rotation of the cam arm 21 of the cylinder lock mechanism.

The dead-locking slide is provided with a V-shaped tumbler 24 having an arm 25 provided with a gate 26 cooperating with a racking stump 27, by which said slide is
45 held either in its normal or dead-locking position, as shown in Figs. 1 and 3 respectively. This dead-locking operation may be performed in three different ways, viz., by the guest key or the emergency key from the
50 outer side or by a thumb-turn on the inner side of the lock. In case such dead-locking is effected by the guest key or thumb-turn, the dead-locking mechanism may be returned to normal position either by the
55 guest key, thumb-turn or emergency key. When the dead-locking slide is operated by the emergency key, however, it may only be returned to the normal position by the emergency key from the outside or by the thumb-
60 turn from the inside.

To effect dead-locking by the duplicate guest key *g* or the emergency key *e*, each of said keys, as shown in Figs. 13 and 14 respectively, are of greater overall length than
65 the master or grand-master keys, and at the

rear of the lock case and in alinement with the cam arms 21 of the cylinder lock mechanism 23 are the cam arms 28 and 29 rotatably mounted between the lock case and a bearing plate *x* (Fig. 2) and held against
70 accidental movement by the spring-pressed arms 28' and 29' respectively. Each of said cam arms 28 and 29 is provided with a key-receiving slot 30, Fig. 1, arranged in alinement with the key-hole slot of the cylinder
75 lock plug 22. The emergency key *e*, Fig. 14, while of greater overall length than the master and grand-master keys, is of less overall length than the guest key *g*, and is adapted when inserted in the cylinder lock
80 plug to extend beyond the cylinder plug only so far as to engage the key-receiving slot 30 of the rotary cam arm 29 nearest the cylinder lock mechanism, and hence rotates only the rotary cam arm 29 in addition to
85 the cylinder plug cam 21. The cam arm 29 is arranged in the same plane with the dead-locking slide 12, whereby it may engage the actuating notch 31 in said slide, to move the latter into or out of dead-locking position. 90
Furthermore, the tumbler 24 is provided with an arm 32 which is likewise engaged by the rotary cam arm 29 whereby said tumbler may be released from its racking stump 27 by said cam arm. Upon movement of the
95 dead-locking slide to the position shown in Fig. 3 by the cam arm 29, the intermediate latch operating lever 18 is moved out of range of the cylinder lock cam 21, as a result of which the latch bolt cannot be operated either by the short master or grand-
100 master keys.

In a similar manner, the dead-locking slide may be moved to dead-locking position by means of the guest key, as follows: The
105 guest key is of sufficient overall length to extend not only into the key-receiving slot 30 of the cam arm 29, but also into the corresponding slot of the cam arm 28 to the rear of the first, whereby both of said cam
110 arms, as well as the cylinder lock cam 21, will be rotated by the operation of the guest key, and thus the dead-locking slide may be moved to and from operative position by the rotation of the cam arm 29. The purpose of
115 the cam arm 28, operable only by the guest key, is to prevent return of the dead-locking slide to normal inoperative position by means of the guest key when said slide is moved to operative position by the emergency key. To this end there is pivoted on
120 the case at 33 beneath the dead-locking slide a guard tumbler 34 shown detached in Fig. 8, having a spring 35, by which the free end of said tumbler is normally lifted and held
125 in engagement with a stop 36, Figs. 3 and 4, in the lock case. The free end of said guard tumbler is also slotted at 37 to receive a lug 38 on the rear end of the dead-locking slide when said tumbler is in its elevated position. 130

When the dead-locking slide is in its rear-most or normal inoperative position, Fig. 1, the lug 38 thereof lies to the rear of and outside of the slot 37, so that said guard tumbler may be rocked regardless of said lug. The rotary cam arm 28 lies in the same plane as the guard tumbler 34, and hence as said cam arm is rotated, together with the rotary cam arm 29, by the guest key, the tumbler will be rocked downwardly against its spring so that as the dead-locking slide 12 moves forward to operative position, the lug 38 on said slide, instead of taking within the slot 37 of the guard tumbler, will ride over the upper edge of said tumbler, as indicated in Fig. 3, thus permitting the rotary cam arm 28 to make a complete rotation and to return to its normal position, in which the key may be withdrawn from the cylinder lock. When, however, the dead-locking slide is operated by means of the emergency key, the rotary cam arm 28 is not rotated, and hence as the dead-locking slide moves forward to operative position, the guard tumbler 34 remains in its elevated or normal position, in which position the lug 38 of the locking slide passes within the slot 37 of said tumbler. Consequently, if it is now attempted to return the locking slide to normal position by means of the guest key, the rotary cam arm 28, operated by said key, will come into engagement with the upper edge of the guard tumbler, thus rigidly held in its elevated position, whereby complete rotation of the cam arm 28 and consequently also of the cam arm 29 by the guest key will be prevented. Hence, when said locking slide is moved to dead-locking position by the emergency key, it cannot be returned to normal position by the guest key.

In order that the latch bolt may be dead-locked against operation by the master and grand-master keys from the inside, a thumb-turn 35' is provided on the inner side of the lock having a spindle which engages the hub 35 of roll-back arms 36, which overlie the lower arm 25 of the tumbler 24 and are adapted to operate the same, and thereby actuate the dead-locking slide to which said tumbler is pivoted to and from operative position. To this end, the lower arm 25 of the tumbler 24 is provided with a laterally projecting ledge 37, Fig. 7, which terminates in a depression 38, having the actuating surfaces 39 and 40 adapted to be engaged by the thumb-turn roll-back arms 36, whereby said tumbler may be released from the racking stump 37 and the dead-locking slide moved to or from operative position by said roll-back arms.

In order that the dead-locking slide may be returned from operative to normal position by means of one of the duplicate guest keys after it has been so moved to dead-locking position by means of the thumb-

turn roll-back, it is necessary that the guard tumbler 34 be moved to and held in depressed position during such movement of the dead-locking slide to operative position by said roll-back, so that the cam arm 28 rotated by the guest key may rotate free of the guard tumbler. To this end the guard tumbler is provided with a lateral projection 41 arranged in the path of rotation of the thumb-turn roll-back arms 36, whereby as said arms rotate, the guard tumbler will be drawn down until during the forward movement of the dead-locking slide, the lug 38 will pass over the upper edge of said tumbler, thus holding said tumbler in a position to permit free operation of the rotary cam arm 28 as before described when it is desired to return the dead-locking mechanism to inoperative or normal position by means of the guest key. In order to prevent all possibility of jamming of the roll-back arms 36 and the guard tumbler projection 41 during the depression of said guard tumbler by said arms, said projection 41 is carried at the outer end of a swinging arm 42 pivoted at 43 on the free end of said guard tumbler, said swinging arm being provided with a spring 44 which yieldingly holds the projection 41 in proper position relative to the path of movement of the roll-back arms 36. It will be seen, therefore, that the dead-locking device may be moved by the guest key, emergency key and thumb-turn to operative position so that the latch operating levers 14 and 18 are carried entirely out of range of the cylinder plug cam 21; that when the latch is so dead-locked by the thumb-turn it may be released therefrom by a duplicate guest key as well as by the emergency key, and when the latch is dead-locked by either the guest key or the emergency key, it may be released therefrom by the thumb-turn, and finally when the latch is dead-locked by the emergency key it can only be released therefrom from the outside by the emergency key, but it can also be released therefrom from the inside by the thumb-turn.

While I have herein described a particular embodiment of my invention, it is to be understood that the same may be varied in detail and arrangement of parts without departing from the spirit and scope of my invention.

What I claim is:

1. In a lock, a latch bolt, means for retracting said latch bolt by a series of keys including a guest key and an emergency key, means for dead-locking said latch bolt operable by said guest and emergency keys to prevent retraction of said latch bolt by any except said guest or emergency key, and means to prevent retraction of the latch bolt by said guest key when dead-locked by the operation of said emergency key.

2. In a lock, a latch bolt, means for retracting said latch bolt by the operation of any of a series of keys including a guest key and an emergency key, dead-locking means for said latch bolt operable by said guest and emergency keys respectively to prevent retraction of said latch bolt by any except said guest or emergency key, a roll-back arranged to operate said dead-locking means from the inner side of the door, means to permit operation of said dead-locking means interchangeably by said guest key and said roll-back and to prevent release of said dead-locking means by said guest key when the latter is thrown into operation by operation of said emergency key.

3. In a lock, a latch bolt, means for retracting said latch bolt by the operation of any of a series of keys including a guest key and an emergency key, means operable by said guest key and said emergency key for dead-locking said latch bolt against retraction by the operation of any of said keys except said guest and emergency keys respectively, a roll-back operable from the inner side of the door to throw said dead-locking means into and out of action, and means constructed and arranged to permit the release of said dead-locking means by said guest key and said roll-back interchangeably when thrown into action by either said guest key or said roll-back, and means to prevent release of said dead-locking means by said guest key when thrown into action by said emergency key and to permit release of said dead-locking means by said roll-back when thrown into action by said emergency key.

4. In a lock, a latch bolt, means for retracting said latch bolt by the operation of any of a series of keys including a guest key and an emergency key, dead-locking means for said latch bolt operable by said guest and emergency keys respectively to throw said latch retracting means out of range of operation by the other keys of said series, means to permit release of said dead-locking means by the operation of said guest and emergency keys respectively when thrown into action by said guest key, and means to prevent release of said dead-locking means by the operation of said guest key when thrown into action by said emergency key.

5. In a lock, a latch bolt, means operable by any of a series of keys including a guest key and an emergency key for retracting said latch bolt, means operable by said guest key and said emergency key for throwing said latch retracting mechanism out of range of retraction by all of said keys, a roll-back operable from the inner side of the door for actuating said dead-locking means, means for permitting the release of said dead-locking means by said guest key and said roll-

back interchangeably when thrown into action by either of said members respectively and to prevent release of said dead-locking means by said guest key when thrown into action by the operation of said emergency key but to permit release of said dead-locking means by said roll-back when thrown into action by said emergency key.

6. In a lock, a latch bolt, a dead-locking slide, means for retracting said latch bolt carried by said slide and operable by any of a series of keys including a guest and an emergency key when said slide is in inoperative position, means for moving said slide to carry said bolt retracting mechanism out of range of operation of all of said keys when said slide is thrown into action by either said guest or emergency key, a roll-back operable from the inner side of the door for actuating said slide into and out of action, means arranged to permit release of said dead-locking slide interchangeably by said guest key and said roll-back when thrown into action by either of said members, and means to prevent release of said slide by the operation of said guest key when thrown into action by said emergency key, said latter means arranged to permit release of said dead-locking slide by said roll-back when said slide is thrown into action by said emergency key.

7. In a lock, a latch bolt, a dead-locking member therefor, bolt actuating mechanism carried by said member operable by any of a series of keys including a guest key and an emergency key, means operable by said guest key and said emergency key respectively to actuate said member to carry said latch retracting means out of range of operation of the keys of the series, a roll-back operable from the inner side of the door also to actuate said member to carry said latch retracting means out of range of operation of the keys of the series, a guard tumbler constructed and arranged to permit actuation of said dead-locking member to and from operative position by said guest key and roll-back interchangeably and to prevent release of said member by operation of said guest key when thrown into action by said emergency key, said guard tumbler arranged to permit release of said dead-locking member by said roll-back when thrown into action by said emergency key.

8. In a lock, a latch bolt, a dead-locking slide, bolt-actuating mechanism carried by said slide and operable by any of a series of keys including a guest key and an emergency key, means operable by said guest key to move said slide to and from operative position, means operable by said emergency key for moving said slide to and from operative position, a roll-back operable from the inner side of the door for moving said slide to and from operative position, a guard

tumbler operable by the operation of said guest key and said roll-back during the operation of said slide, and means on said slide cooperating with said guard tumbler constructed and arranged to permit release of said slide by said guest key and said roll-back interchangeably unless thrown into action by either of said members and to prevent release of said slide by the operation of said guest key when thrown into action by said emergency key, said guard tumbler being arranged to permit the release of said slide by said roll-back when thrown into action by said emergency key.

9. In a lock, a latch-bolt, a dead-locking slide therefor, means for retracting said latchbolt carried by said slide, a key-controlled member for actuating said bolt-retracting means operable by any of a series of keys including a guest key and an emergency key, a key-controlled member for moving said dead-locking slide into and out of operative position operable by said emergency key and said guest key respectively, a guard member for preventing release of said slide by said guest key when said slide is thrown to operative position by said emergency key, a roll-back operable from the inner side of the door to move said slide into and out of operative position, said guard member constructed and arranged to be operated by said roll-back and said guest key controlled member to permit release of said slide by operation of said roll-back and said guest key interchangeably.

10. In a lock, a latch-bolt, a dead-locking member therefor, bolt-retracting means carried by said dead-locking member, a key-controlled member operable by any of a series of keys for actuating said bolt-retracting means, a key-controlled member operable by said emergency key and said guest key to actuate said dead-locking member to carry said bolt-retracting means out of range of said first key-controlled member, a key-controlled member operable by said guest key and a member cooperating therewith to prevent return of said dead-locking means to inoperative position by said guest key when thrown into action by said emergency key but to permit such return by said roll-back when said dead-locking member is moved to operable position by said emergency key.

11. In a lock, a latch-bolt, a dead-locking slide, latch-bolt retracting means carried by said slide, a key-controlled member operable by any of a series of keys, including a guest key and an emergency key, to actuate said bolt-retracting means, a key-controlled member operable by said emergency key and guest key respectively to actuate said dead-locking slide to carry said bolt-retracting means out of range of said first key-controlled member, a guard-tumbler adjacent

said dead-locking slide operable by said emergency and guest key controlled members respectively, cooperating means on said slide and said tumbler respectively, constructed and arranged to prevent release of said dead-locking slide by said guest key controlled member when said slide is thrown to operative position by said emergency key controlled member.

12. In a lock, a latch-bolt, a dead-locking member therefor, latch-retracting means carried by said member, a key-controlled member operable by any of a series of keys, including a guest key and an emergency key, to actuate said bolt-retracting means when in normal position, a key-controlled member operable by said emergency key and guest key respectively, to actuate said dead-locking member to move said latch-retracting means out of range of said first key-controlled member, a roll-back operable from the inner side of the door likewise to actuate said dead-locking member, a guard-tumbler adjacent said dead-locking member arranged to be actuated by said guest key-controlled member and by said roll-back to permit actuation of said dead-locking member to and from operative position by operation of said guest key and said roll-back interchangeably, and arranged to prevent return of said dead-locking member to normal position by operation of said guest key when thrown into action by said emergency key-controlled member, said tumbler having means controlled by said roll-back to permit said dead-locking slide to be moved into inoperative position by said roll-back when thrown into operative position by said emergency key-controlled member.

13. In a lock, a latch-bolt, a dead-locking member therefor, latch-retracting means carried by said member, a key-controlled cam arm operable by a series of keys, including a guest key and an emergency key to actuate said bolt-retracting means when in normal position, a key-controlled cam arm in line with said first arm and operable by said emergency key and said guest key to actuate said dead-locking slide to carry said latch-retracting means out of and into range of said first key-controlled cam arm, a guard-tumbler pivoted adjacent said dead-locking member, a third key-controlled cam arm operable by said guest key, operating means on said guard tumbler and said dead-locking member to hold said tumbler in the path of said third key-controlled arm when said dead-locking member is actuated by said emergency key-controlled member to prevent release of said dead-locking member by said guest key but to permit return of said dead-locking member by said emergency key.

14. In a lock, a latch-bolt, a dead-locking member therefor, bolt-retracting means car-

ried by said member, a key-controlled cam arm operable by any of a series of keys to actuate said bolt-retracting means when in normal position, a key-controlled cam arm
 5 operable by said emergency key and said guest key respectively to actuate said dead-locking member to carry said bolt-retracting means out of and into range of said first key-controlled member, a guard tumbler adjacent said dead-locking member, a
 10 key-controlled cam arm operable in conjunction with said emergency key-controlled cam arm by said guest key, cooperating means on said dead-locking member and
 15 said guard-tumbler respectively, arranged to hold said guard-tumbler in the path of said last key-controlled member when said dead-locking member is actuated by said emergency key to prevent release of said member
 20 by said guest key, a roll-back operable from the inner side of the lock to actuate said dead-locking member into and out of operative position, means on said guard-tumbler cooperating with said roll-back to position
 25 said cooperating means between said tumbler and said dead-locking member to permit of actuation of said dead-locking member into and out of operative position by operation of said guest key and said roll-back interchangeably.
 30

15. In a lock, a latch-bolt, a dead-locking device therefor, latch-retracting means carried by said dead-locking device, a key-controlled member operable by any of a series
 35 of keys, including a guest key and an emergency key for actuating said latch-retracting mechanism from the outer side of the lock when said dead-locking device is out of action, said latch-retracting means being
 40 out of range of operation of said externally controlled means when said dead-locking device is in action, and means controlled by said guest key and said emergency key for moving said dead-locking means to operative
 45 position.

16. In a lock, a latch-bolt, a dead-locking slide, means at the inner side of the lock for throwing said slide into or out of action, separate means carried by said dead-locking
 50 ing slide arranged to retract said latch-bolt, a key-controlled member operable by any of a series of keys, including a guest key and an emergency key, cooperating with said

latch-retracting means independently of said means for throwing the slide into and out of action, and operable from the outer
 55 side of the door only, and cooperating with said latch-retracting means only when the dead-locking slide is thrown off and out of action, means operable by said emergency
 60 key and said guest key respectively for throwing said dead-locking slide into action from the outer side of the door, and means for preventing the release of said dead-locking slide by said guest key when thrown into
 65 action by said emergency key.

17. In a lock, a latch-bolt, a roll-back therefor operable from the inner side of the door only, a dead-locking slide, latch-bolt retracting means carried by said slide, a key-controlled member operable by said guest
 70 key and said emergency key respectively to move said dead-locking slide to carry said bolt-retracting means out of range of said first key-controlled member, a guard-tumbler cooperating with said dead-locking
 75 slide, and means operable only by said guest key and cooperating with said guard-tumbler to prevent release of said dead-locking means by operation of said guest key when
 80 dead-locked by said emergency key.

18. In a lock, a latch-bolt, a roll-back therefor operable from the inner side of the door only, a dead-locking slide, bolt-retracting means carried by said slide, a key-controlled member operable by any of a series
 85 of keys, including a guest key and an emergency key to actuate said dead-locking slide to carry said bolt-actuating means out of range of said first key-controlled member, a second roll-back operable from the inner
 90 side of the door to actuate said dead-locking slide into and out of operative position, a guard-tumbler cooperating with said dead-locking slide and constructed and arranged
 95 to permit actuation of said dead-locking slide into and out of operative position by said guest key and said second roll-back interchangeably, and to prevent release of said dead-locking means by operation of
 100 said guest key when thrown into action by said emergency key.

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Witnesses:

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