

No. 868,556.

PATENTED OCT. 15, 1907.

A. H. HARRIS.
LOCK.

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Fig. 1.

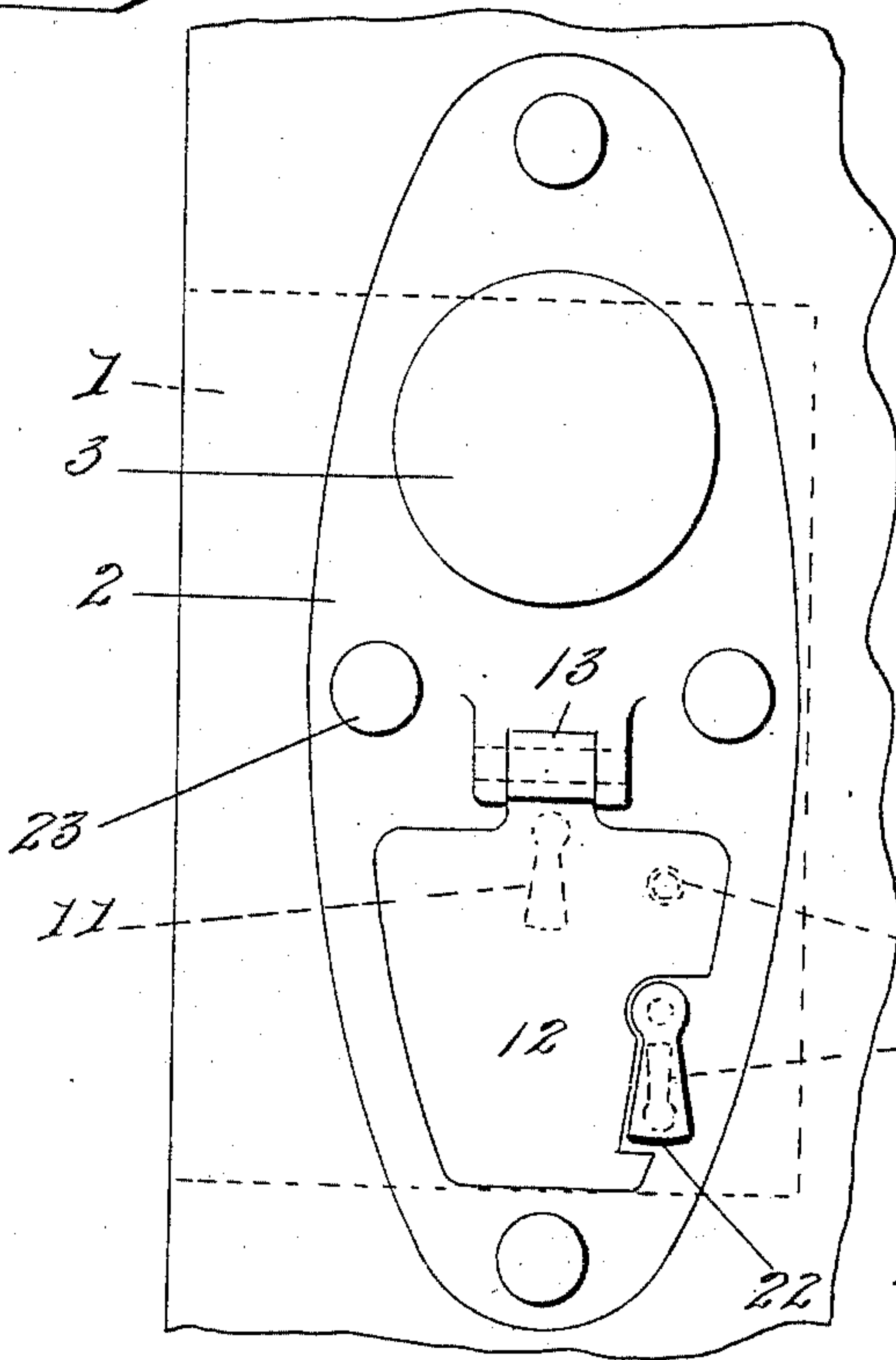


Fig. 2.

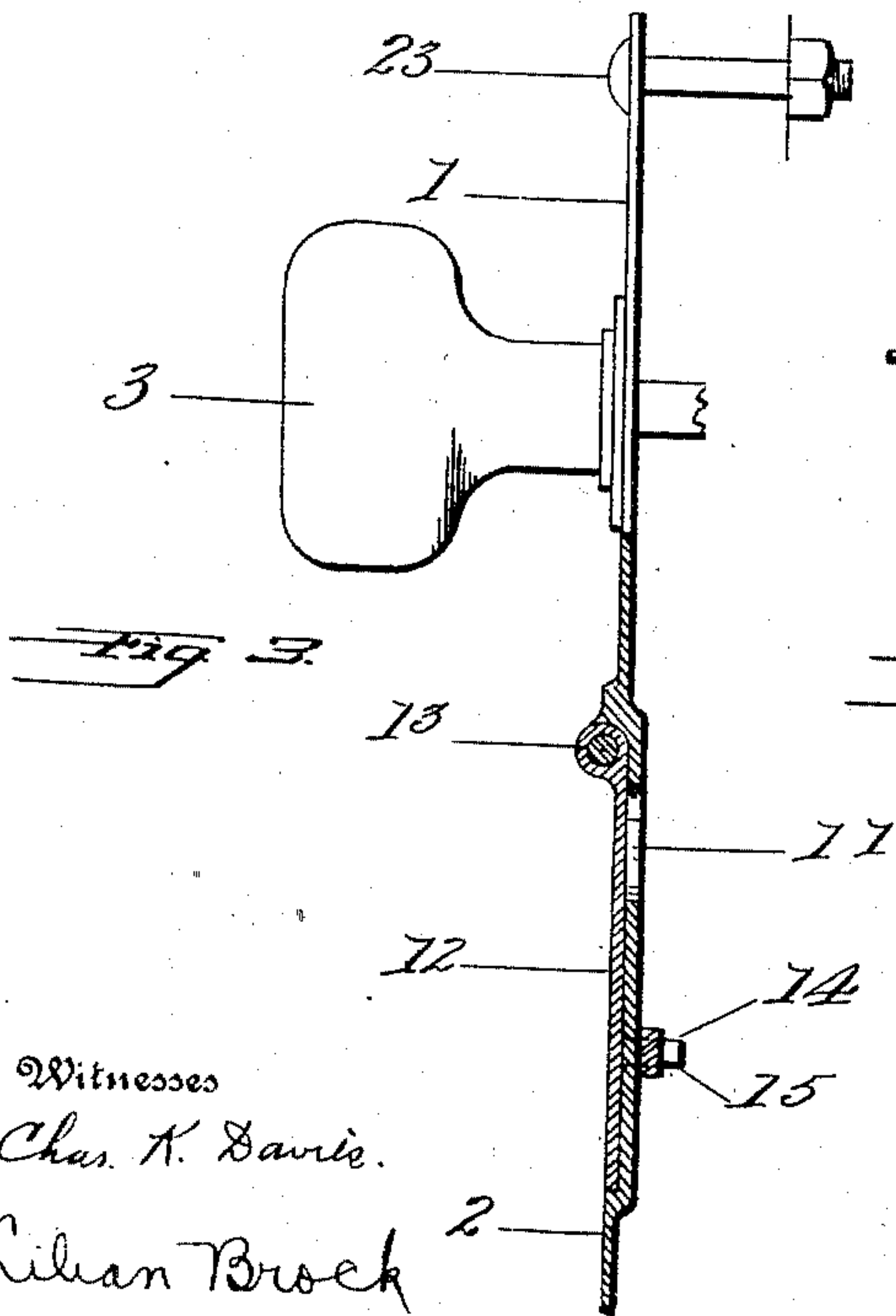
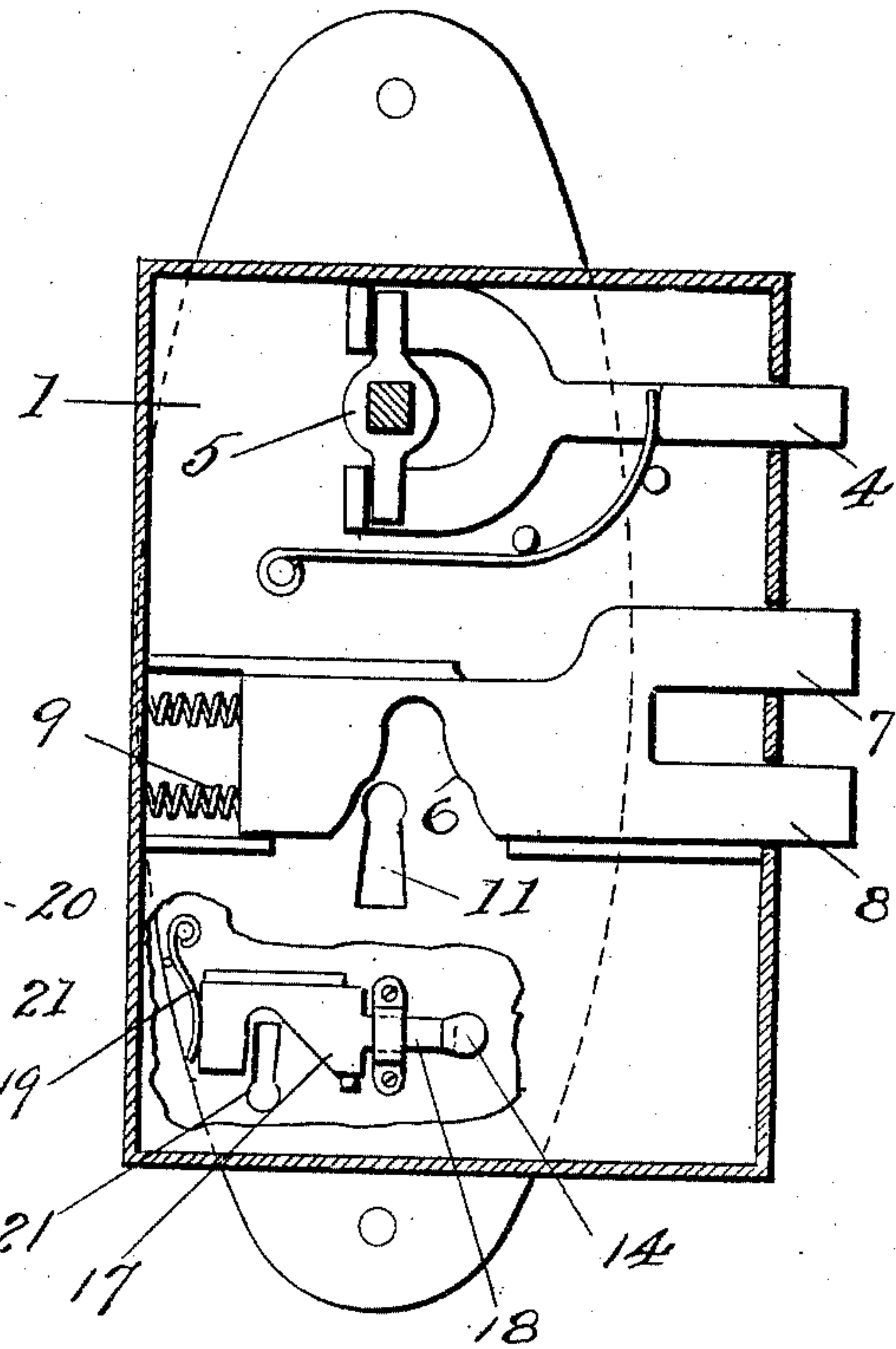
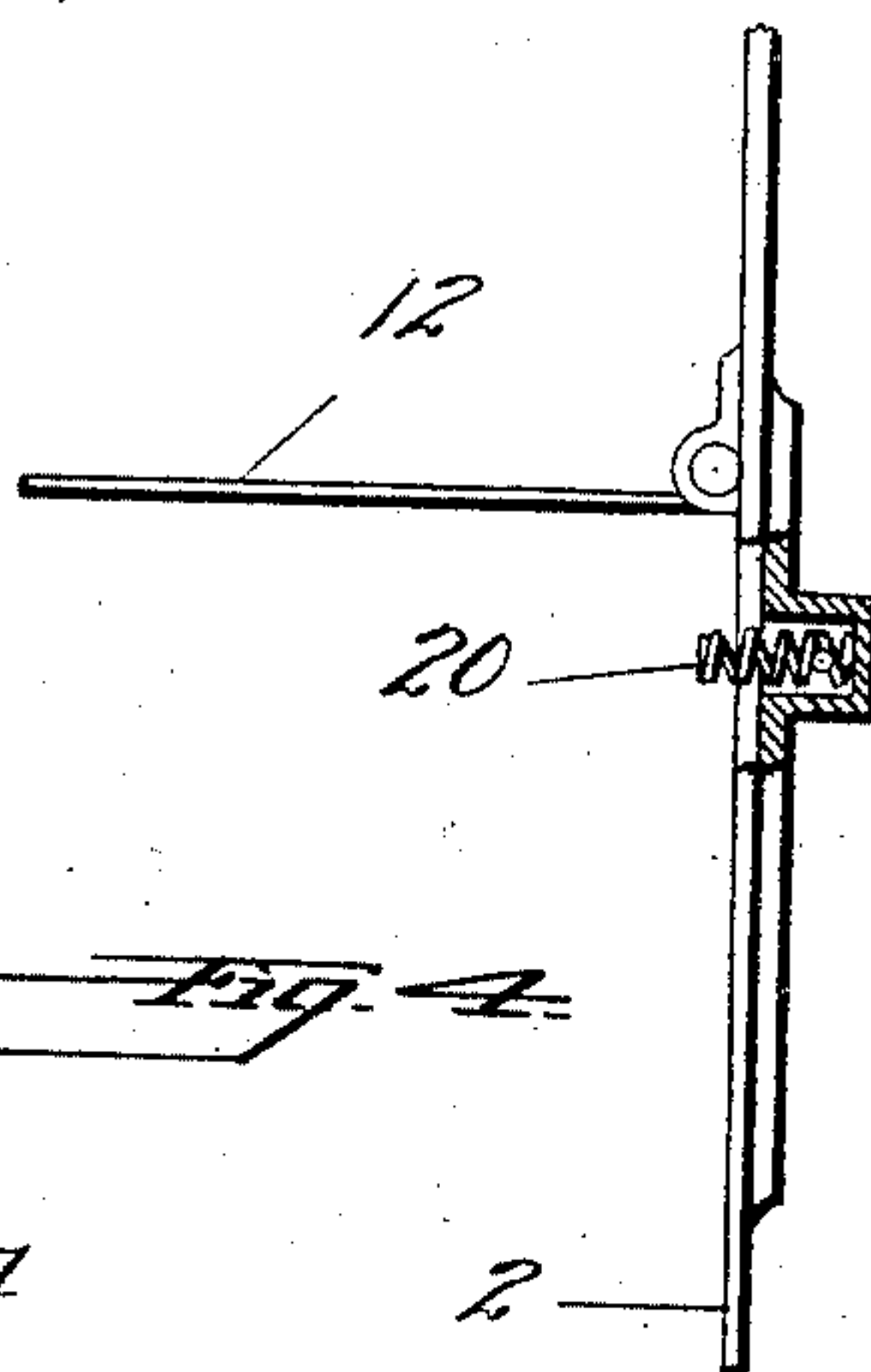


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

ADOLPHUS H. HARRIS, OF BIRMINGHAM, ALABAMA.

LOCK.

No. 868,556.

Specification of Letters Patent.

Patented Oct. 15, 1907.

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To all whom it may concern:

Be it known that I, ADOLPHUS H. HARRIS, a citizen of the United States, and a resident of Birmingham, in the county of Jefferson and State of Alabama, have invented a new and useful Lock, of which the following is a specification.

My invention relates to locks. It provides a lock which is unusually secure from opening by unauthorized persons.

10 The advantages and characteristics of the invention will hereafter appear in connection with a detailed description, reference being had to the accompanying drawing which illustrates an exemplifying structure in which the invention is embodied.

15 Figure 1 is a front view from the outside of a door to which the lock is applied; Fig. 2, a sectional view looking from the rear of Fig. 1; Fig. 3, a side sectional view; and Fig. 4, a detail sectional view showing the spring for the safety plate.

20 1 designates the lock casing; 2, the usual plate on the outside of the door; 3, the knob; 4, the latch; 5, a cross-piece on the knob shaft for withdrawing the latch; 6, the bolt, in this instance having two jamb-engaging fingers 7 and 8; also being impelled toward engagement 25 by spring or springs 9; 10, a key slot in the bolt; 11, the main keyhole through which a key is inserted to withdraw the bolt 6 in an obvious manner; 12, a safety plate, in this instance pivoted to the door plate at 13, and for purposes of artistic finish, fitted in a counter-sunk recess in said plate; 14, a prong on the safety 30 plate extending through a slot in the door plate and into the lock casing; 15, a hook thereon; 17, a safety bolt in the casing having a member 18 impelled to engage the hook 15 by a spring 19; 20, a spring conveniently set in a recessed part of the door plate and bearing against the 35 safety plate; and 21, a safety keyhole through which a key may be inserted to withdraw safety bolt 17; this keyhole is preferably covered by a swinging shield 22.

40 With the parts in the position shown in Fig. 1, the door is fully locked. The user of the lock is provided with two keys and preferably these are of different style or size so that neither of them will operate both of the locks. To unlock the door, the cover 22 of the safety keyhole is swung aside, the safety key is inserted 45 and turned withdrawing the safety bolt 17. This frees the hook 15 carried by the safety plate 12 and the plate springs outwardly under influence of spring 20

so that it may be conveniently grasped and raised still further, exposing the main keyhole 11. The main key is then inserted in this hole and the main bolt withdrawn, whereupon the door is free to be opened on 50 turning the knob 3. In closing and locking the door no key need be used since 6 is a spring bolt, and after the door is shut and locked by the main bolt the safety plate is simply pushed down and automatically locks 55 in position. With the safety plate down and the door closed it is obvious that in order to open the door, an unauthorized person must provide himself with two duplicate keys or pick two locks since the main lock is guarded by another, and that the difficulties involved 60 are such that improper opening of the door is almost impossible.

It will be noted that a principal feature of the invention is the provision of a main lock and means controlled by a second lock preventing operation of the main lock 65 until the second lock is properly operated upon. Many different embodiments of the invention may be made, but the drawing shows only one form. It may be employed in connection with double acting locks, with those which are not spring actuated, with those in 70 which the lock is applied to the knob, etc., etc.

As a further safeguard, instead of securing the door plate 2 to the door by ordinary screws or the like, I prefer to attach it by means of bolts of which the rounded 75 heads 23 are on the outside and the shanks extend through the door and are screwed into the wood, or provided with machine screw threads and secured by nuts on the inside. By this construction it is practically impossible to remove the door plate from the outside. 80 When these plates are improperly fastened the door may be frequently opened by removing the door plate and permitting the block to be forced away from the door.

Having described my invention, what I claim is:

85 In a lock, the combination of a casing, a main lock operated by a removable key, an outer pivoted cover-plate controlling access to the keyhole of said main lock, and another lock operated by a different, removable key, for retaining the plate in closed position.

In testimony whereof I have affixed my signature in the presence of two witnesses.

ADOLPHUS H. HARRIS.

Witnesses:

C. T. RANDALL,
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