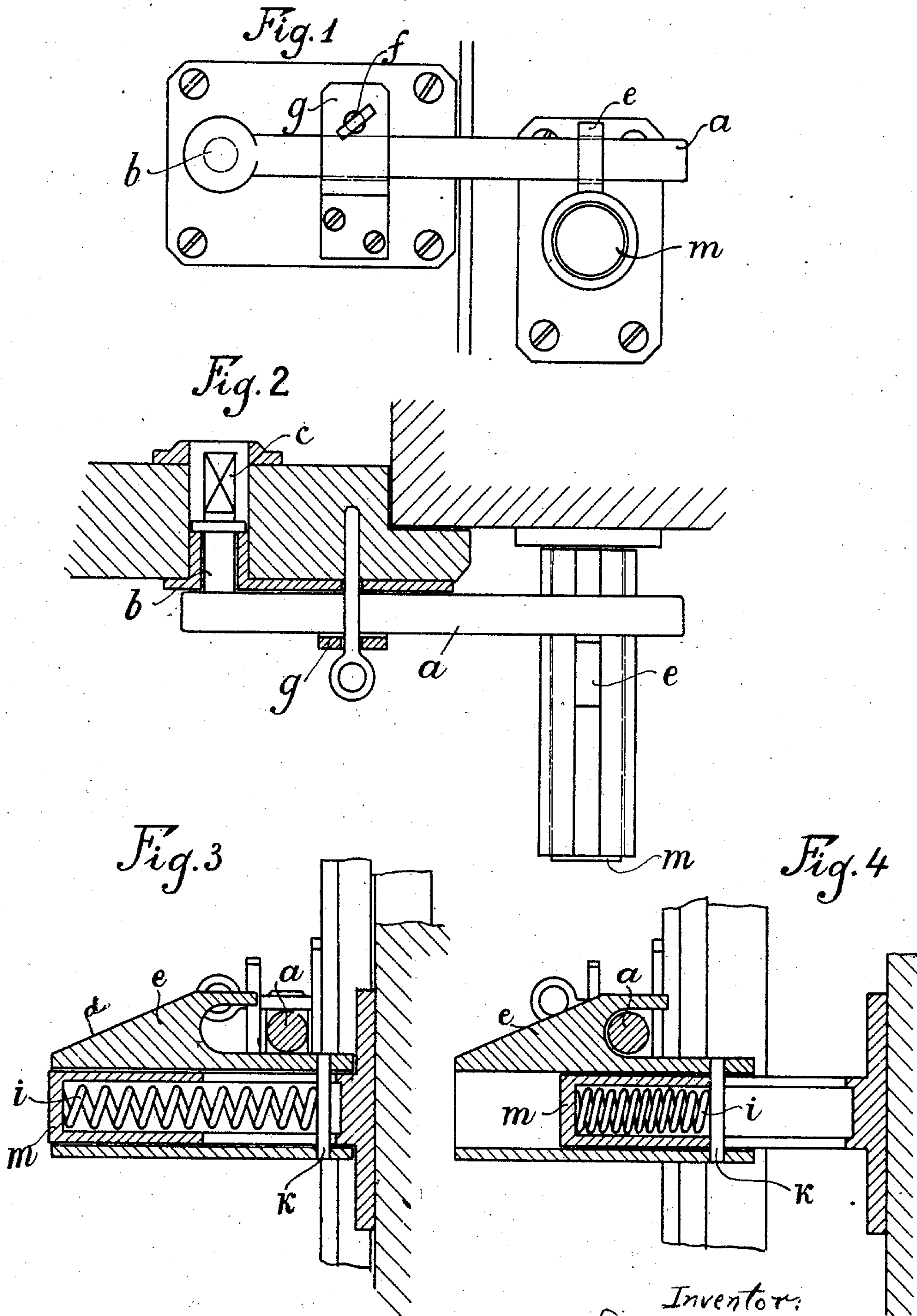


F. STUMPF.
DOOR CHECK.

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Witnesses:
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UNITED STATES PATENT OFFICE.

FRIEDRICH STUMPF, OF MUNICH, GERMANY.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 786,532, dated April 4, 1905.

Application filed July 6, 1903. Serial No. 164,399.

To all whom it may concern:

Be it known that I, FRIEDRICH STUMPF, merchant, a citizen of Germany, residing at Schwanthalerstrasse 17, Munich, Bavaria, Germany, have invented certain new and useful Improvements in Door-Checks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to locks or latches, and has for its object the provision of means whereby unauthorized opening of the door or tampering with the latch is precluded, while affording to authorized persons ready control of the same.

My invention is fully illustrated in the accompanying drawings, in which —

Figure 1 is a front elevation of the lock. Fig. 2 is a top plan of the lock with relation to the door, and Figs. 3 and 4 are vertical sectional views of the lock at rest and under force from without.

Referring to the drawings more in detail, *a* represents the latch or locking bar, pivotally mounted by the pin *b* within the door. The pin *b* is squared at its outer end at *c* and may be engaged and turned by a suitable key. The free end of the latch *a* in closing the door rides up the inclined face *d* of the hook *e*, secured to the door-jamb, and drops into the space behind said hook, as shown in Fig. 3. A pin *f* may then be passed through a hole in the guide *g* above the latch, preventing the operation of the latch from without by one in possession of a key.

The structure thus far described constitutes a very simple and efficient lock. In order, however, to permit to persons within an inspection of applicants for admission without impairing the security of the door, I have embodied in the lock other features of construction, which will be readily understood from Figs. 3 and 4 and from the following description:

The hook *e* is formed as a sleeve, slidably mounted on a slotted cylindrical guide-piece *m* and limited as to longitudinal and rotary movement by the pin *k*, secured in the hook *e* and passing through the slot in the guide *m*.

Within the hollow guide *m* and abutting against the pin *k* is a coiled spring *i*, whose function is to hold the hook *e* yieldingly toward the door-jamb.

When the door is at rest, as shown in Fig. 3, it will be seen that the latch *a* can be lifted from behind the hook *e* by hand from within or by means of a key from without. If the door be partially opened, however, the tension of the spring *i* will hold the hook *e* over the latch *a*, as shown in Fig. 4, and effectually prevent its disengagement until the door be again entirely closed. This arrangement precludes any possibility of the latch being lifted from without by means of a wire or other device through the chink of the door and also permits persons within to partially open the door and identify persons outside the door without impairing the security of the door-fastening, as any attempt to use force from without would only the more tightly hold the hook *e* over the latch *a*.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a door-check, the combination with a latch, and means for operating said latch, of a movable catch for said latch, and yielding means operating upon the catch for holding the same in engagement with the latch.

2. In a door-check, the combination with a latch pivotally mounted, and means for operating said latch from without, of a catch comprising a hook, and yielding means for holding the hook in engagement with the latch.

3. In a door-check, the combination with a latch pivotally mounted, and means for operating said latch from without, of a guide-piece secured to the door-jamb, a hook slidably mounted on the guide and adapted to engage the latch, and a spring tending to hold the hook in engagement with the latch when the door is partially ajar.

4. In a door-check, the combination with a latch pivotally mounted on the door, and means for operating said latch from without, of a slotted guide-piece mounted on the door-jamb, a sleeve-hook slidably mounted on the guide-piece, a pin carried by the hook and traveling in the slot, and a spring bearing against the

pin and the guide, whereby an unauthorized attempt to open the door from without will compress the spring and hold the hook in engagement with the latch.

- 5 5. In a door-check, the combination with a latch, and a pin fixed thereto at an angle and journaled in the door, the end of said pin being accessible from without and adapted for the reception of a key, of a guide-piece mounted on the door-jamb, a hook slidably mounted on the guide-piece, and a spring abutting against the hook and a fixed support, whereby an unauthorized attempt to open the door from without will cause the spring to hold the hook in engagement with the latch.

- 15 6. In a door-check, the combination with a latch and a pin fixed thereto at right angles and journaled in the door, the end of said pin

being accessible from without and squared for the reception of a key, of a slotted guide-piece mounted on the door-jamb, a hooked sleeve slidably mounted on the guide-piece, a pin carried by the hook and traveling in the slot, and a spring bearing against the pin and the end of the guide, whereby an unauthorized attempt to open the door from without will compress the spring and hold the hook in engagement with the latch.

In testimony whereof I affix my signature to this specification in the presence of two witnesses.

FRIEDRICH STUMPF.

Witnesses:

ANNI LUTHER,
GEORG KÖRNER.