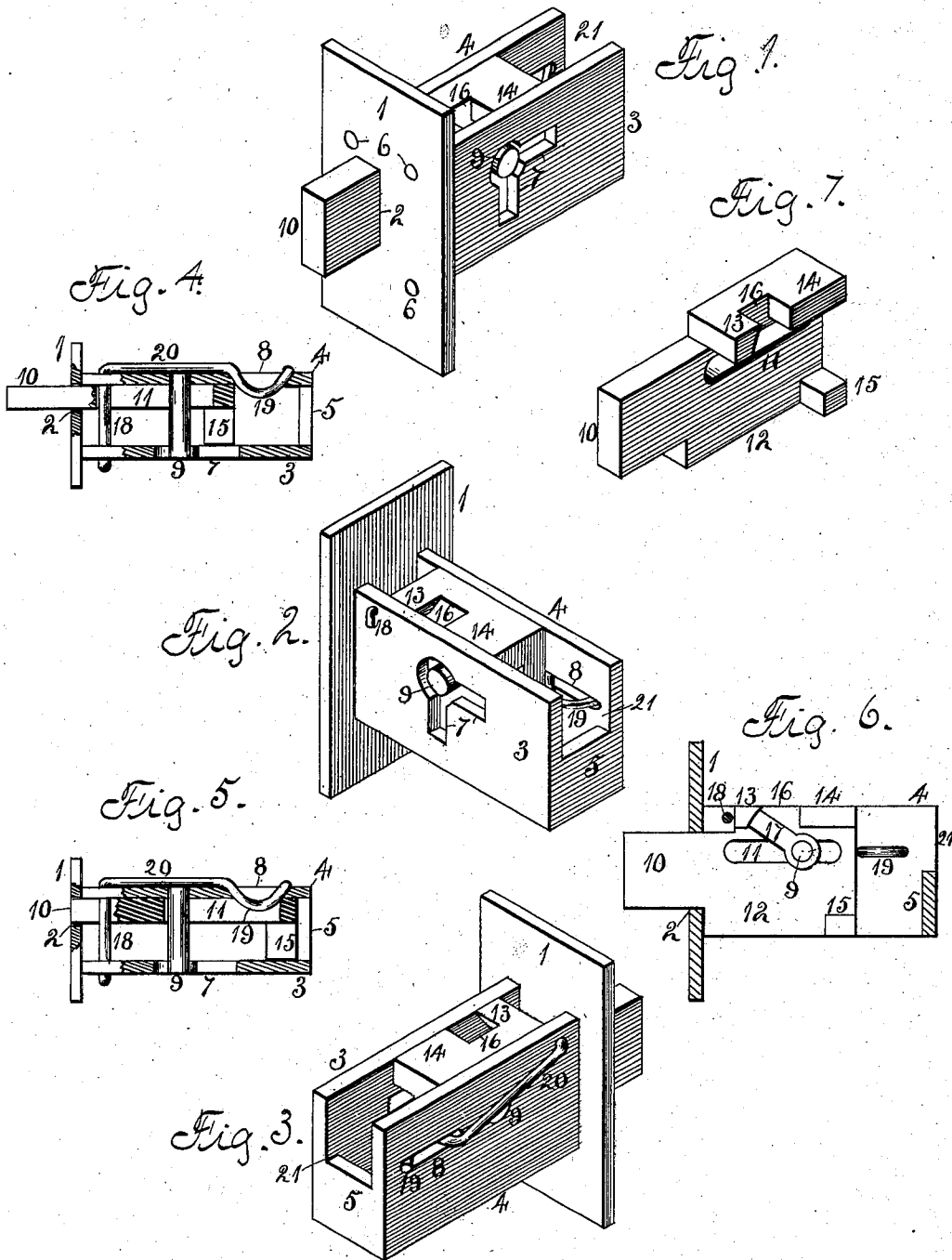


F. W. LINDGREN.

LOCK.

APPLICATION FILED MAY 18, 1903.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANK W. LINDGREN, OF ROCKFORD, ILLINOIS.

LOCK.

SPECIFICATION forming part of Letters Patent No. 741,685, dated October 20, 1903.

Application filed May 18, 1903. Serial No. 157,664. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. LINDGREN, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Locks, of which the following is a specification.

The object of this invention is to construct a lock comprising a casing, a bolt, and a spring for holding the bolt in its locked and unlocked positions.

In the accompanying drawings, Figures 1, 2, and 3 are isometrical representations of my improved lock. Figs. 4 and 5 are lengthwise sections. Fig. 6 is a lengthwise vertical section through the casing. Fig. 7 is an isometrical representation of the sliding bolt.

The face-plate 1 has an opening 2 for the sliding bolt. The casing comprises the side plates 3 and 4 and end plate 5. Studs 6 extend from the ends of the side plates and are located in openings in the face-plate when they are riveted in position. The side plate 3 has key-openings 7, and the side plate 4 has a lengthwise opening 8 and a stud 9. A sliding bolt (shown at Fig. 7) is located between the side plates, having its reduced end 10 located in the opening 2 in the face-plate. A slot 11 in the main plate 12 of the bolt receives the stud 9, which serves to guide the bolt in its lengthwise movements. From the main plate of the bolt extend three projections 13, 14, and 15. The opening 16 between the projections 13 and 14 receive the key 17, as shown at Fig. 6, and all of the projections bear against the inner face of the side plate 3 of the casing, acting as a guide

for the bolt. A spring for holding the bolt in its locked and unlocked positions comprises the section 18, supported by the side plates of the casing, the curved section 19, located in the slot 8, and a section 20, connecting the end sections. The action of this spring is to hold its curved section 19 in the slot 8 in a yielding manner. When the bolt is extended, the curved section of the spring will rest behind it, as shown in section at Fig. 4, and when the bolt is withdrawn the curved section of the spring will enter the slot 11 in the bolt, as shown in section at Fig. 5.

The object of the cut-away portion 21 of the end of the casing is to admit the bolt to be placed within the casing after the casing has been connected to the face-plate.

I claim as my invention—

1. A lock comprising a face-plate having a casing connected thereto, a bolt located within the casing and having a lengthwise slot, a pin supported by the casing and located in the slot, and a spring located outside of the casing having one end connected to the casing and its other end passing through an opening in the casing and engaging the bolt.

2. A lock comprising a face-plate having a casing connected thereto, a bolt located within the casing and a spring acting on the bolt, a portion of one edge of the bolt located at right angles to its face and provided with a notch, and a projection extending from the other edge of the bolt.

FRANK W. LINDGREN.

Witnesses:

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