

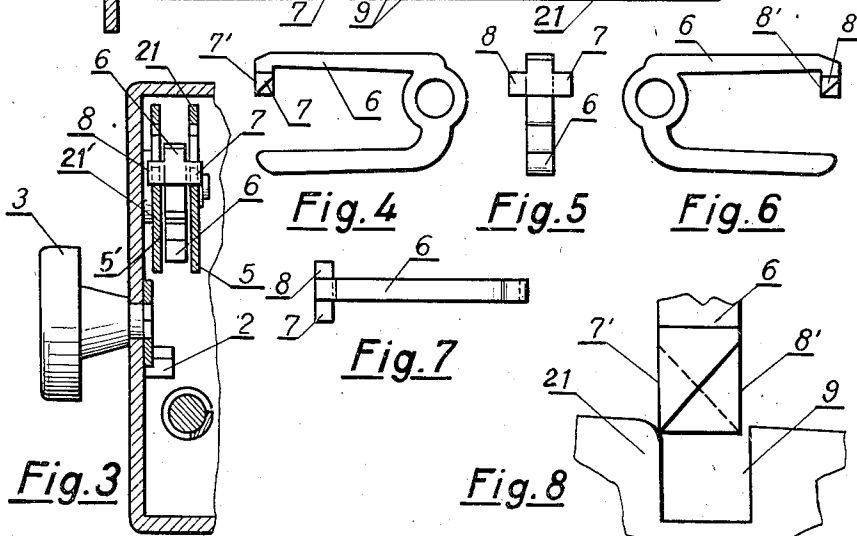
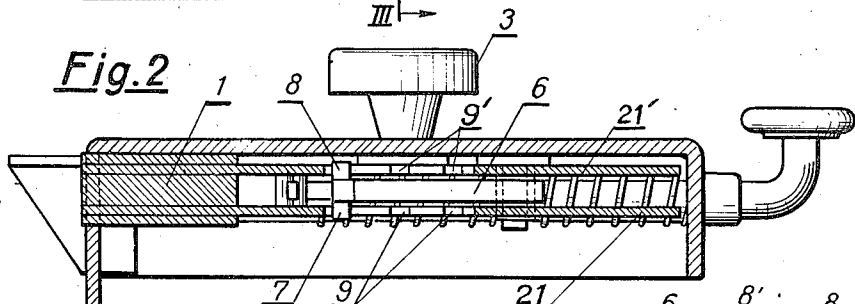
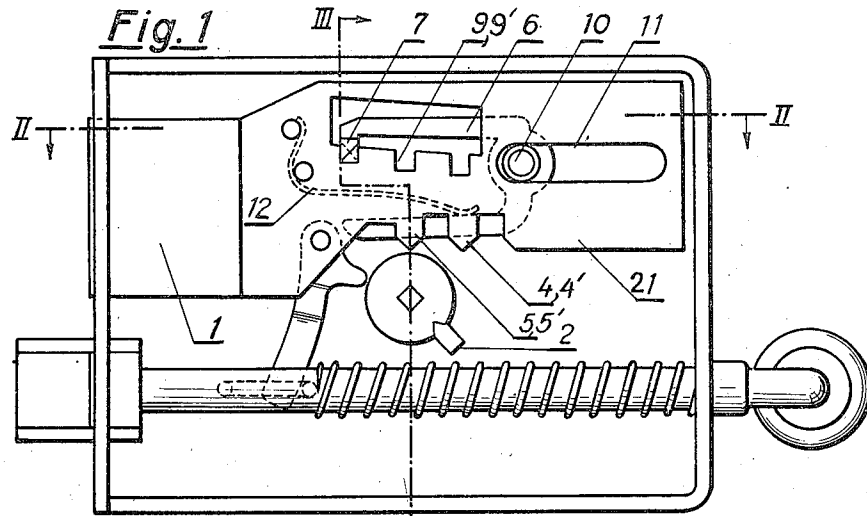
Feb. 24, 1948.

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2,436,628

SAFETY LOCK

Filed June 11, 1945



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UNITED STATES PATENT OFFICE

2,436,628

SAFETY LOCK

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Application June 11, 1945, Serial No. 598,826
In Switzerland June 19, 1944

1 Claim. (Cl. 70—355)

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The object of the present invention is a safety lock comprising a bolt locking member made of a single piece presenting two abutments acting in opposite directions.

The drawing represents, by way of example, an embodiment of the invention.

Fig. 1 is an elevation view.

Fig. 2 is a section along II—II of Fig. 1.

Fig. 3 is a section along III—III of Fig. 1.

Figs. 4, 5, 6, 7 show the bolt locking member in side elevation, in front, in the opposite side elevation, and in plan.

Fig. 8 shows a detail in a larger scale.

In the drawing, 1 refers to the bolt of the lock, which is operated by the key bit or by a lug 2 of a rotary member actuated either by a key or by a knob 3, which key bit or lug engages with the teeth 4 and 5 corresponding to two locking positions of the bolt. The shank of the bolt 1 comprises two parallel jaws 21, 21'; the lower edge of each jaw is formed with the teeth 4 and 5, 4' and 5'; and the upper edge of each jaw is provided with three notches 9, 9'. The bolt locking member, intended to prevent the bolt from getting out of one of its three positions without the key or the operating knob being rotated, is constituted of a single U-shaped piece 6 pivotally mounted between the jaws 21, 21' of the bolt shank. The upper arm of the bolt locking member 6 carries at its end two abutments 7 and 8, one on each side, the vertical abutting faces 7' and 8' being directed one to the right and the other to the left, in order to cooperate, in each one of the three positions of the bolt and in both directions, with the notches 9, 9' of the bolt jaws 21, 21'. The single abutting piece 6 is pivoted at 10 on a gudgeon secured in the frame of the lock and passing through slots 11 of the bolt jaws.

In each position of the bolt, the abutments 7 and 8 engage under the action of a spring 12 into the notches 9, 9' of the jaws 21, 21' corre-

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sponding to this position, and their vertical abutting faces abut, one on the fore wall of the notch 9 and the other on the rear wall of the notch 9', thus locking the bolt against any fraudulent or accidental motion which is not produced by the key bit or by the knob or key operated lug 2 acting on the teeth 4 and 5, 4' and 5' on the bolt jaws 21, 21' and on the lower arm of the U-shaped piece 6.

What I claim is:

A safety lock comprising a slidable bolt having a shank formed with two parallel jaws, the lower edge of each jaw being formed with teeth adapted to be engaged by a key and the upper edge of each jaw being provided with a plurality of notches, a U-shaped bolt locking member pivotally mounted between said jaws so as to enable its lower arm to be disposed in the path of movement of the key, the upper arm of said locking member having its free end formed with two abutments disposed one on each side thereof for spring-urged engagement with a pair of notches of the bolt jaws, said abutments having their abutting faces directed in opposite directions to respectively engage the fore wall of a notch and the rear wall of the other notch of the pair.

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