

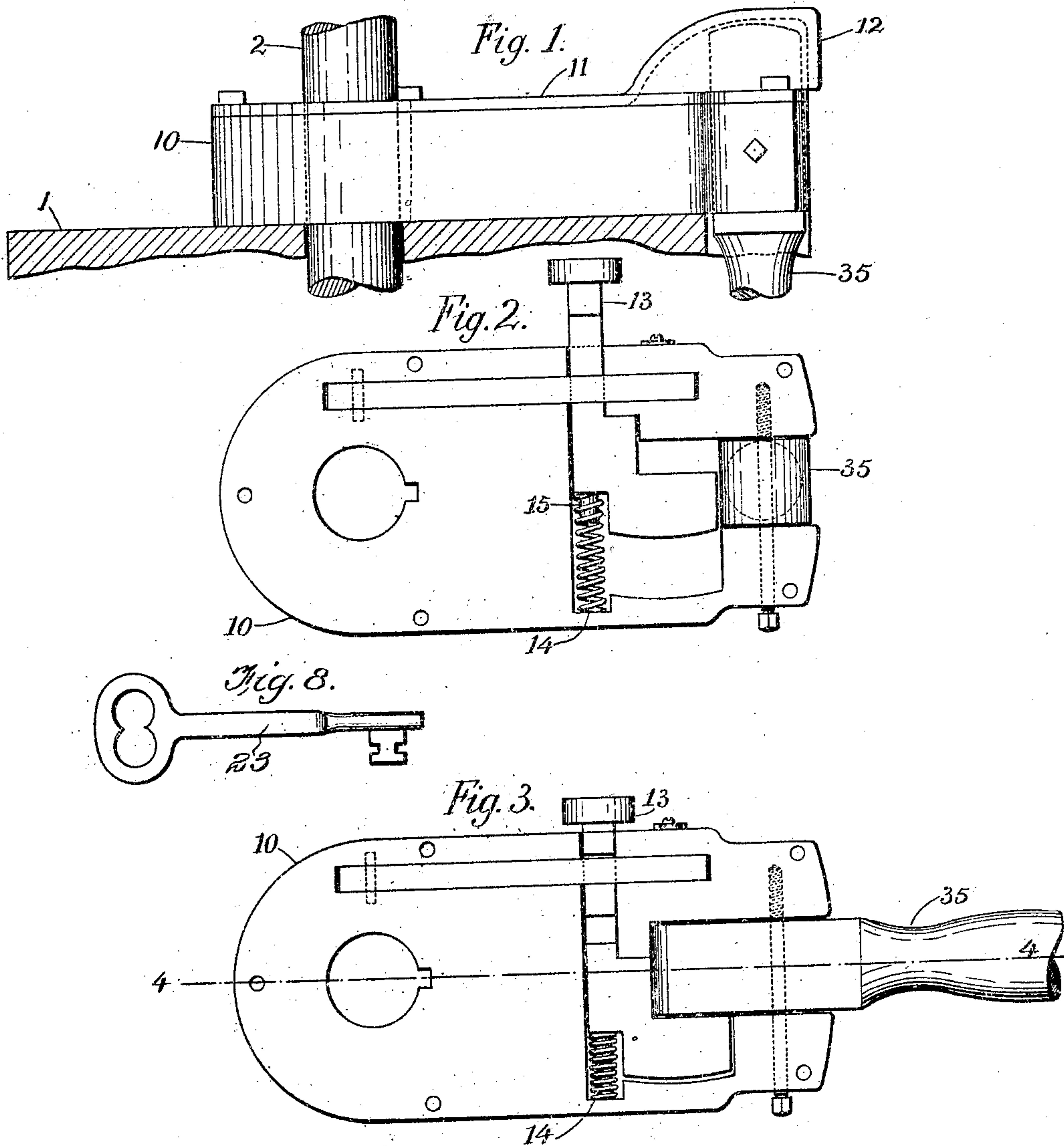
No. 891,129.

PATENTED JUNE 16, 1908.

W. ANDERSON.
SWITCH LOCK.

APPLICATION FILED APR. 11, 1907.

2 SHEETS—SHEET 1.



Witnesses
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C. H. Griesbauer

Inventor
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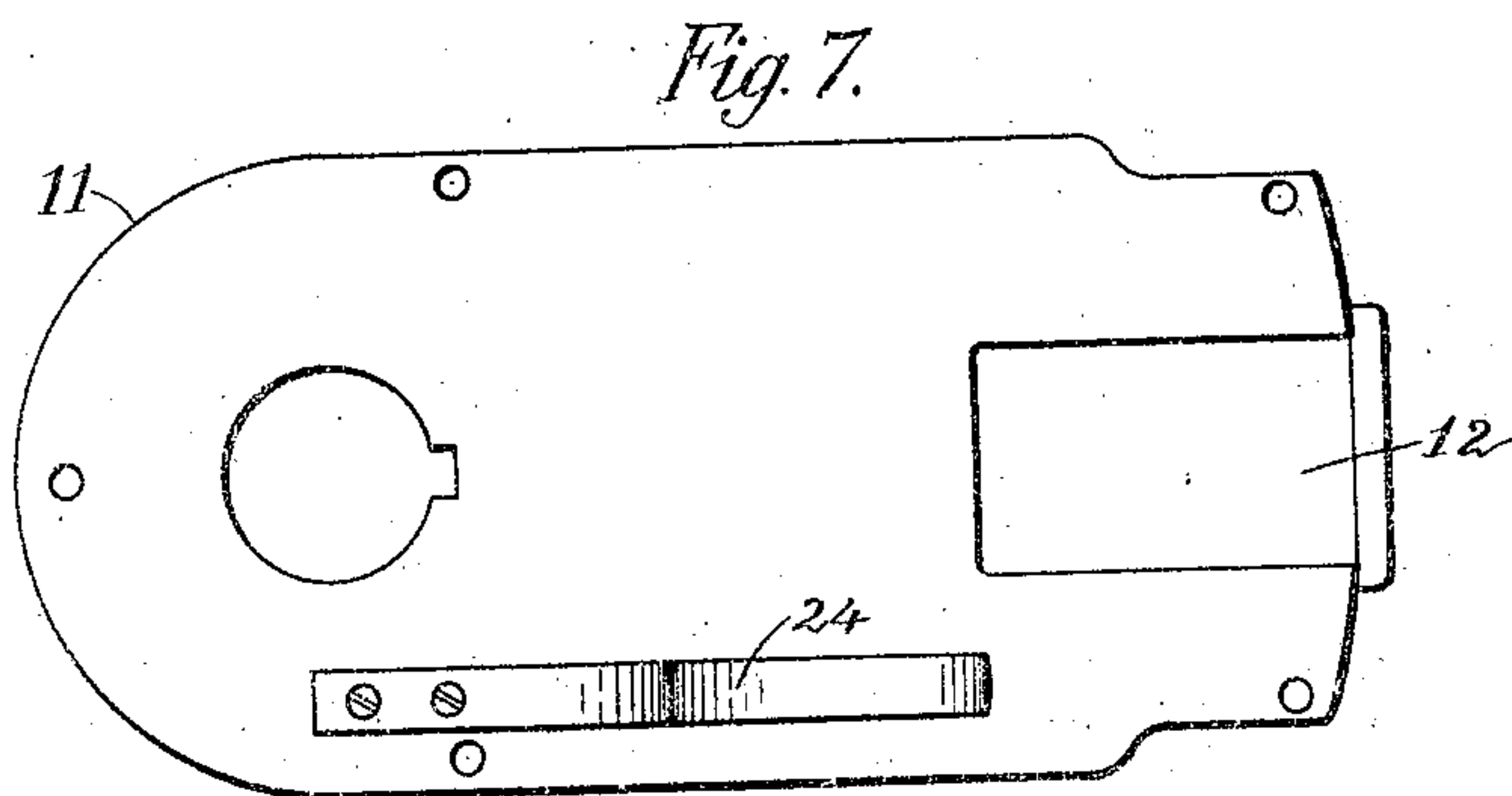
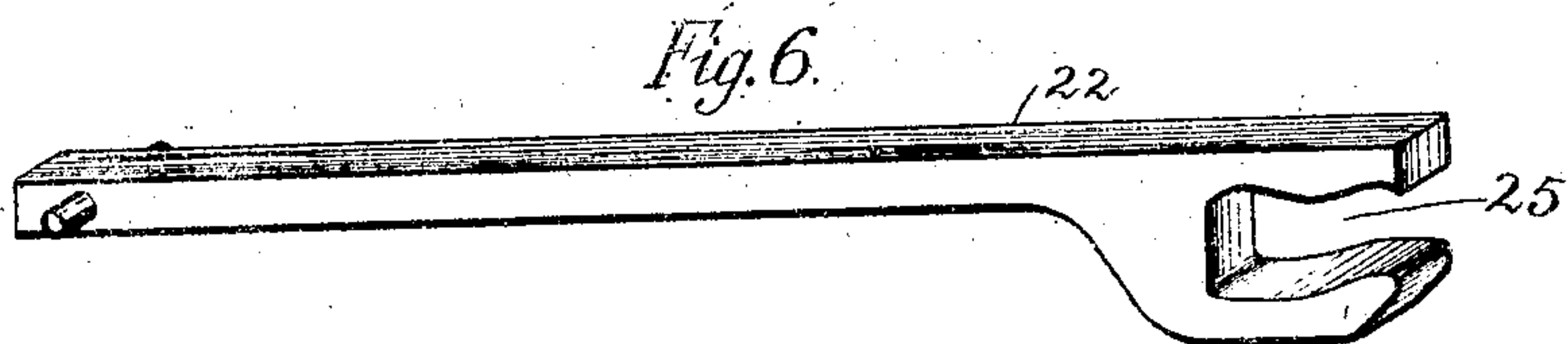
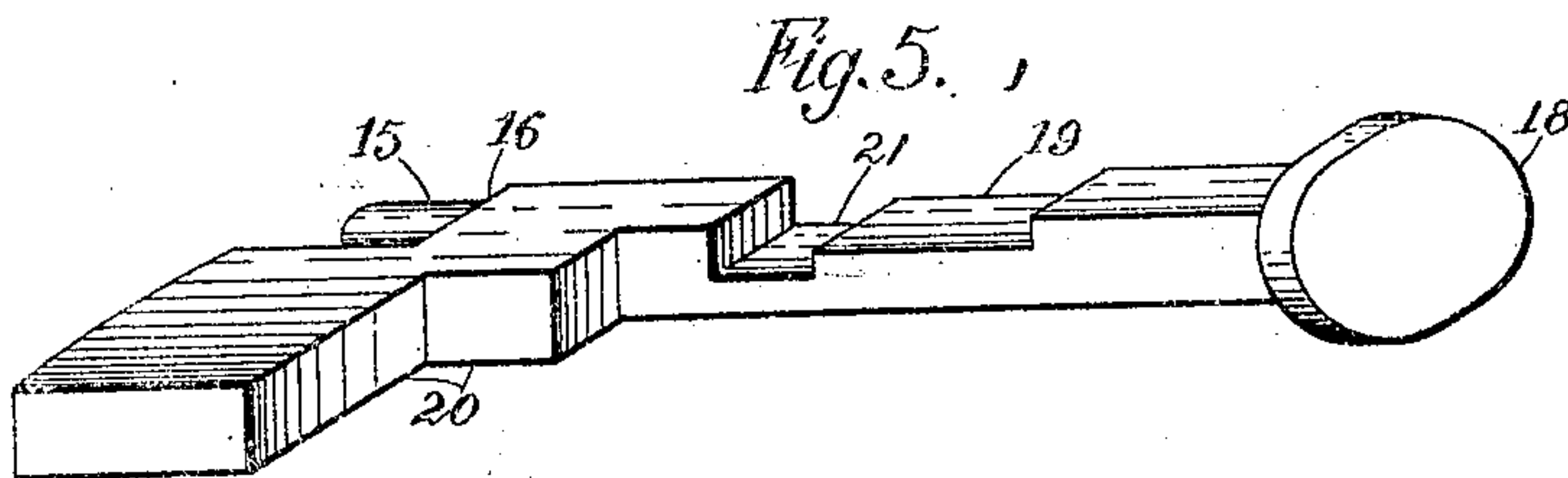
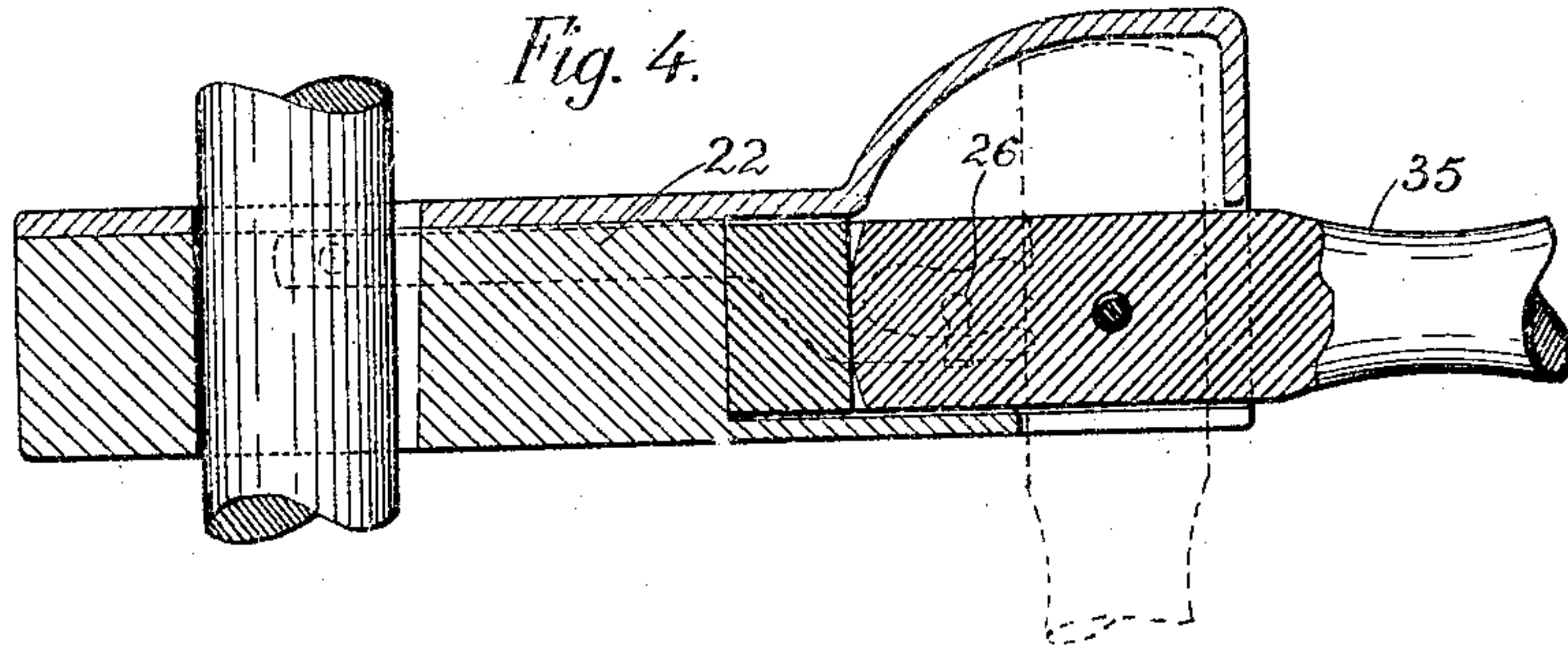
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2 SHEETS—SHEET 2.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM ANDERSON, OF MEMPHIS, TENNESSEE, ASSIGNOR TO A. A. STRANGE, OF MEMPHIS, TENNESSEE.

SWITCH-LOCK.

No. 891,129.

Specification of Letters Patent.

Patented June 16, 1908.

Application filed April 11, 1907. Serial No. 367,601.

To all whom it may concern:

Be it known that I, WILLIAM ANDERSON, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented certain new and useful Improvements in Switch-Locks; and I do 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.

This invention relates to an improved switch lock in which the key cannot be removed while the operating lever is in raised position.

One object of the invention is to provide a switch lock comprising a simple construction which will reliably hold the lever for moving the switch so that it cannot be moved except by the person who holds the key to the lock.

Another object is to provide a switch lock composed of two members one of which is always locked against movement when the other is unlocked and vice versa.

In the accompanying drawings, Figure 1 represents a side elevation of the switch stand with this improved lock applied thereto; Fig. 2 represents a top plan view of the lock casing with the top removed to show the working parts which are in position to lock the switch operating lever against movement; Fig. 3 represents a similar view with the working parts shown in the position which they assume when the switch lever is unlocked; Fig. 4 represents a longitudinal section taken on line 4—4 of Fig. 3; Fig. 5 represents a perspective view of the spring-pressed locking member detached; Fig. 6 represents a perspective view of the latch detached; Fig. 7 represents a bottom plan view of the cover; Fig. 8 shows the key used for locking the device.

In the drawings is shown a turn table or lock casing 10 rotatably mounted on the upper side of a platform 1 by means of a shaft 2 to which it is fixed. The shaft 2 passes loosely through the platform 1 and is connected at its lower end with a lever for moving the switch points (not shown) and at its top is provided with the usual signal (not shown). The lock casing 10 is provided with suitably shaped recesses in which are disposed the operating parts, and with a detachable top 11 having a recess or chamber

12 in which one end of a hand-lever 35 pivoted to the casing is adapted to move.

A locking member or bolt 13 for the lever 35 is mounted to slide transversely in a recess in the casing 10 and a coiled spring 14 is disposed on its inner end on a guide pin 15, said spring bearing at one end against a shoulder 16 on the member 13 and at its other end against the casing wall. The body of this lever-locking member is preferably of rectangular form and is provided with a laterally-extending step-shaped block or arm 19, the recess 20 thereof being adapted to engage the inner end of the lever 35 and lock it in raised position. This member 13 also is provided at its upper end with a head 18 which lies on the outside of the casing across an opening in the side wall thereof through which the member projects and slides. This locking member 13 also has a stepped notch 21 in its upper face for receiving a locking bar or latch 22. This bar 22 is pivoted at one end in a longitudinal recess formed near one side of the casing at right-angles to the bolt or locking member containing recess and extends across the top of the bolt 13. This bar 22 is bifurcated at its free end to receive a key 23 for releasing it from the bolt. A spring 24 is attached to the top of the casing above the bar to hold said bar in engagement with the bolt-notch 21.

A key chamber 24 is formed beneath the free end of the locking bar or latch 22 and has a key-hole 26 opening through the side wall of the casing through which the key (not shown) is passed to lift the bar 22 out of engagement with the bolt 13 and permit it to be pushed in to release the lever 35, as hereinafter described.

The arm or block 19 is adapted to move in the path of the inner end of the hand-lever 35 to lock the lever in vertical position in engagement with the platform 1 and thereby prevent the manipulating of the switch. When it is desired to manipulate the switch, the key 23 is inserted through the key-hole 26 and given a half turn which raises the bar 22 out of engagement with the bolt-notch 21 and permits said bolt to be pushed inward against the tension of its spring 14 and the lever 35 may then be raised and the switch operated. One side of the lever 35 when raised engages the inner edge of the arm and holds the locking member 13 in retracted position and the tension of the spring of said

member tends to hold the lever up. The key cannot be removed from the lock while the lever is elevated.

I claim as my invention:—

5 1. A switch lock, comprising a casing, a lever pivoted to said casing, a spring pressed bolt mounted to slide in said casing and having a laterally projecting arm adapted to extend transversely across the path of said
10 lever in one position to lock said lever in lowered position, said arm being provided with means for frictionally engaging and holding said lever in raised position, a locking
15 bar for holding said bolt in forward position in the path of the lever, and means for raising said bar to close said bolt and permit the arm thereof to be moved out of the path of the lever.

20 2. In a switch lock, the combination of a casing, a lever pivoted to said casing, an L-shaped locking member arranged in said casing with its short arm arranged to project normally across the path of said lever to lock
25 member in said position in the path of the

lever, and means for releasing said member to permit the locking member to be shifted and the lever to be operated.

3. A switch lock comprising a casing, a lever pivoted to said casing having one
30 end movable therein, an approximately L-shaped spring-pressed locking member with the short arm thereof movable transversely across the path of said lever and having one face adapted to engage and lock said lever
35 when the latter is in lowered position, and the other face of said arm adapted to frictionally engage one side of the lever and hold it in engaged position, means for locking
40 said arm in engagement with said lever in its lowered position, and means for releasing the said arm from said lever.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM ANDERSON.

Witnesses:

M. A. CANDLER,

H. H. RAY.