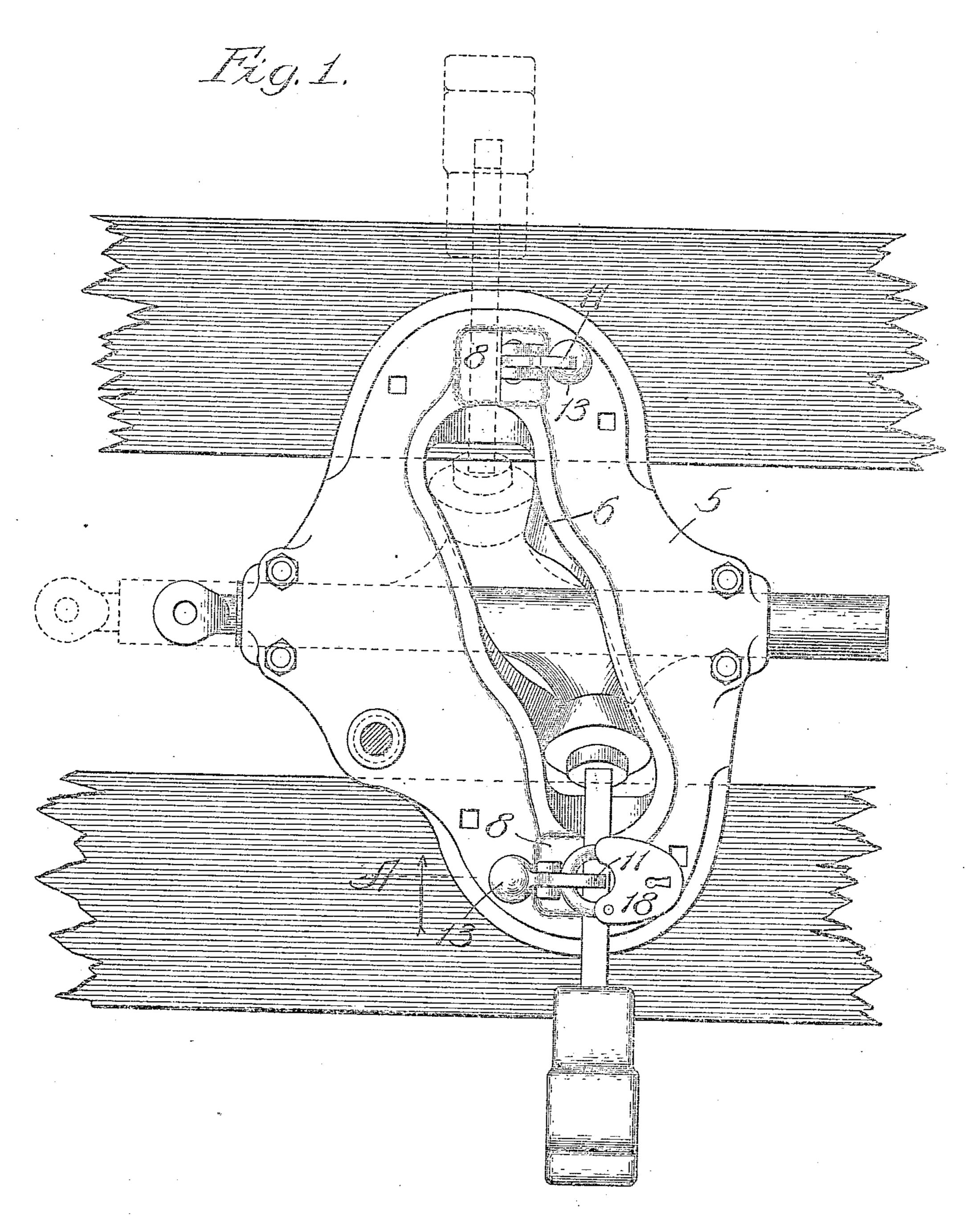
A. A. STROM. SWITCH LEVER LOCK. APPLICATION FILED DEC. 13, 1909.

953,646.

Patented Mar. 29, 1910.
² SHEETS—SHEET 1.



Witnesses: John Gridere Has H.Bull. Triventon:

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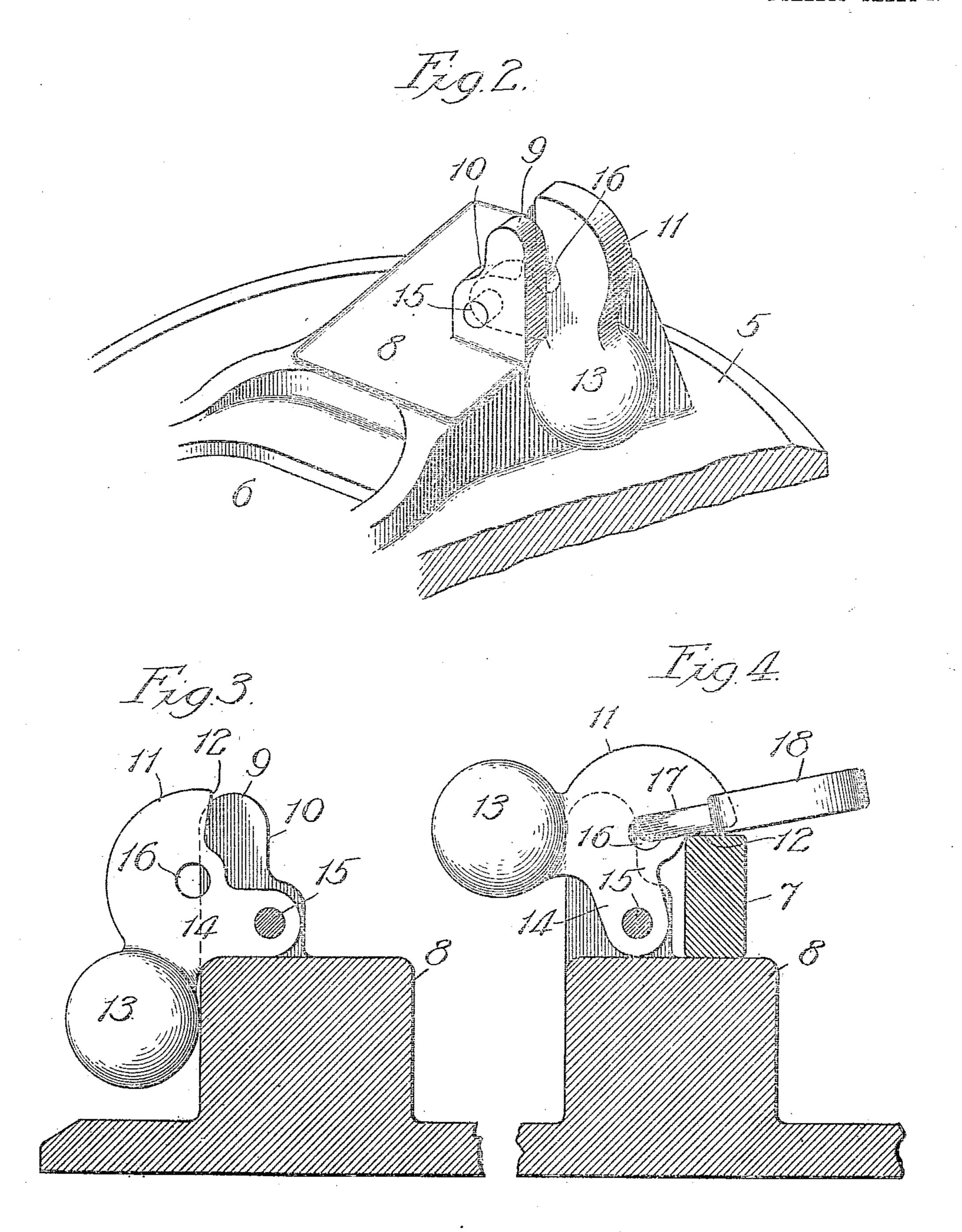
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Attis: 4

STATES PATENT OFFICE.

AXEL A. STROM, OF AUSTIN, ILLINOIS, ASSIGNOR TO PETTIBONE, MULLIKEN & COM-PANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SWITCH-LEVER LOCK.

953,646.

Specification of Letters Patent. Patented Mar. 29, 1910.

Application filed December 13, 1909. Serial No. 532,947.

Austin, in the county of Cook and State of 5 Illinois, have invented a new and useful Improvement in Switch-Lever Locks, of which

the following is a specification.

My invention relates to an improvement in the class of locks used for obstructing the 10 throw-lever of a low or "ground" switchstand against accidental rise when the lever is at the end of its throw, the obstructing member of the device being in the form of a pivotal abutment adapted to assume by 15 gravity, as its normal position, that out of the path of movement of the lever and requiring to be turned manually into that path to obstruct the lever and to be locked to retain it in the obstructing position.

In the accompanying drawings, Figure 1 shows a switch-stand by a plan view, equipped with my improved lock at each end of the throw of the operating lever; Fig. 2 is a perspective view showing a portion of 25 the switch-stand on which the lock is provided, and Figs. 3 and 4 are enlarged sections on line A, Fig. 1, respectively showing the lock in its inoperative and operative con-

dition.

The switch-stand shown in the drawings for illustration of my present improvement, which, however, is applicable to any switchstand in the class referred to, forms the subject of United States Letters Patent No. 35 934,852, granted to me September 21, 1909, in which the casing 5 containing the switchoperating mechanism adapted to be connected with a switch through the medium of a switch-bar, is provided in its crown-portion 40 with a cam-slot 6 in which the operatinglever 7 works to actuate the mechanism within the casing, with which it is suitably connected, to throw the switch.

One of my improved locks for the operat-45 ing lever is provided at or adjacent to each end of its throw, and is preferably, as shown, formed integral with the casing 5 on an inclined lever-seat or stop 8 at the end of the cam-slot. The lock-device comprises a pair of similar parallel ears 9, 9 rising from a seat 8 integral with which they may be cast and presenting, at the side adjacent to the path of the lever, an offset-face or shoulder 10. The metal abutment 11 is of general 55 pawl-shape, in its preferred form, to present

Be it known that I, Axel A. Strom, a citizen of the United States, residing at shape to render that end relatively heavy; and between the ends extends an arm 14 to enter between the ears or standards 9 for 60 there pivoting the abutment by a pin 15. Near the angle formed by the lip 12 and arm 14 a hole 16 is provided to receive a lock-bolt, such as the shackle 17 of a padlock 18.

The position which the abutment tends to assume by the manner of pivoting it is that represented most clearly in Figs. 2 and 3, with the heavier end 13 lowermost and stopped by the adjacent side of a seating- 70 lug, thus with the end 11 withdrawn from the path of the lever 7. To obstruct the lever against rising, after being turned to an end of its throw to bear against a seat 8, the abutment is turned on its pivotal support, 75 by raising the end 13, to extend the lip 12 across the operating-lever, thereby bringing the hole 16 in front of the standard-faces 10 and adapting it to receive a padlock shackle 17, which by bearing against these faces 80 locks the abutment in its lever-obstructing position and against turning back to its normal or inoperative position under the gravity of the end 13, which, however, it does upon withdrawing the shackle to permit the 85 lever 7 to be thrown.

What I claim as new and desire to secure by Letters Patent is—

1. A switch-lever lock comprising a pair of standards, an abutment having a lever- 90 obstructing lip thereon, an arm pivoted between said standards, and a pad-lock shackle-receiving hole through the abutment so positioned with relation to the vertical plane of the standards as to clear the edges 95 thereof when the lever-obstructing lip of the abutment is in engagement with the lever and to cause the pad-lock shackle threaded through said hole to abut against the standards and to lock the lever in place. 100

2. A switch-lever lock comprising a pair of standards, an abutment having a leverobstructing lip on one side thereof and a weight on its opposite side, an arm intermediate of said lip and weight and pivoted 105 between the standards, and a pad-lock shackle-receiving hole through the abutment so positioned with relation to the vertical plane of the standards as to clear the edges thereof when the lever-obstructing lip of the 110

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abutment is in engagement with the lever and to cause the pad-lock shackle threaded through said hole to abut against the standards and to lock the lever in place.

3. In combination with a switch-stand, a

lever-lock comprising a pair of standards mounted on the casing of the stand adjacent to the end of the path of the throw of the operating-lever, an abutment having a lever-10 obstructing lip on one side thereof, an arm pivoted between said standards, and a pad-lock - shackle - receiving hole so positioned

with relation to the vertical plane of the standards as to clear the edges of the same when the lever-obstructing lip of the abut- 15 ment is in engagement with the lever and to cause the pad-lock-shackle threaded through said hole to abut against the standards to lock the lever in place.

AXEL A. STROM.

In presence of— J. G. Anderson, R. A. SCHAEFER.