

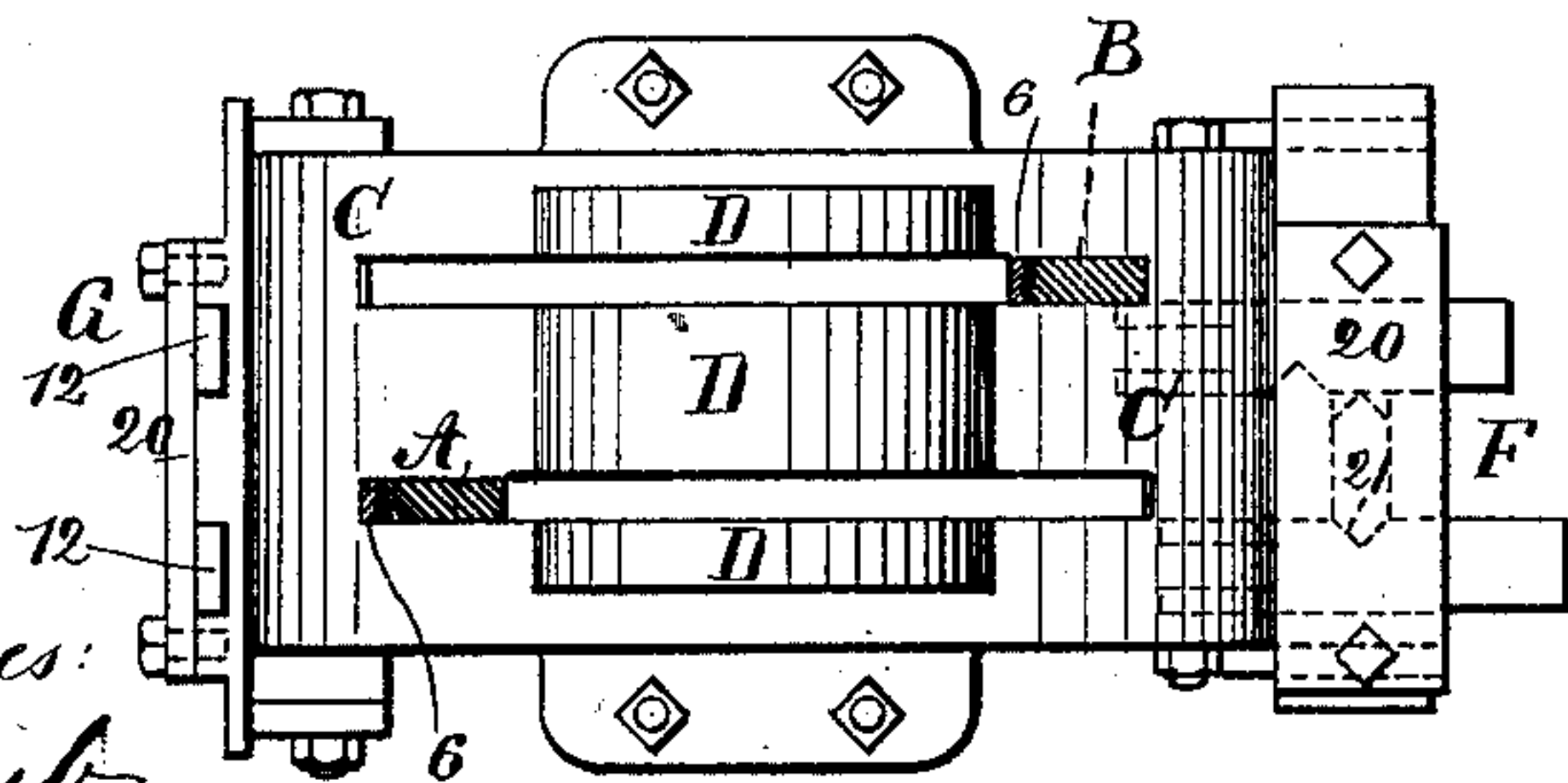
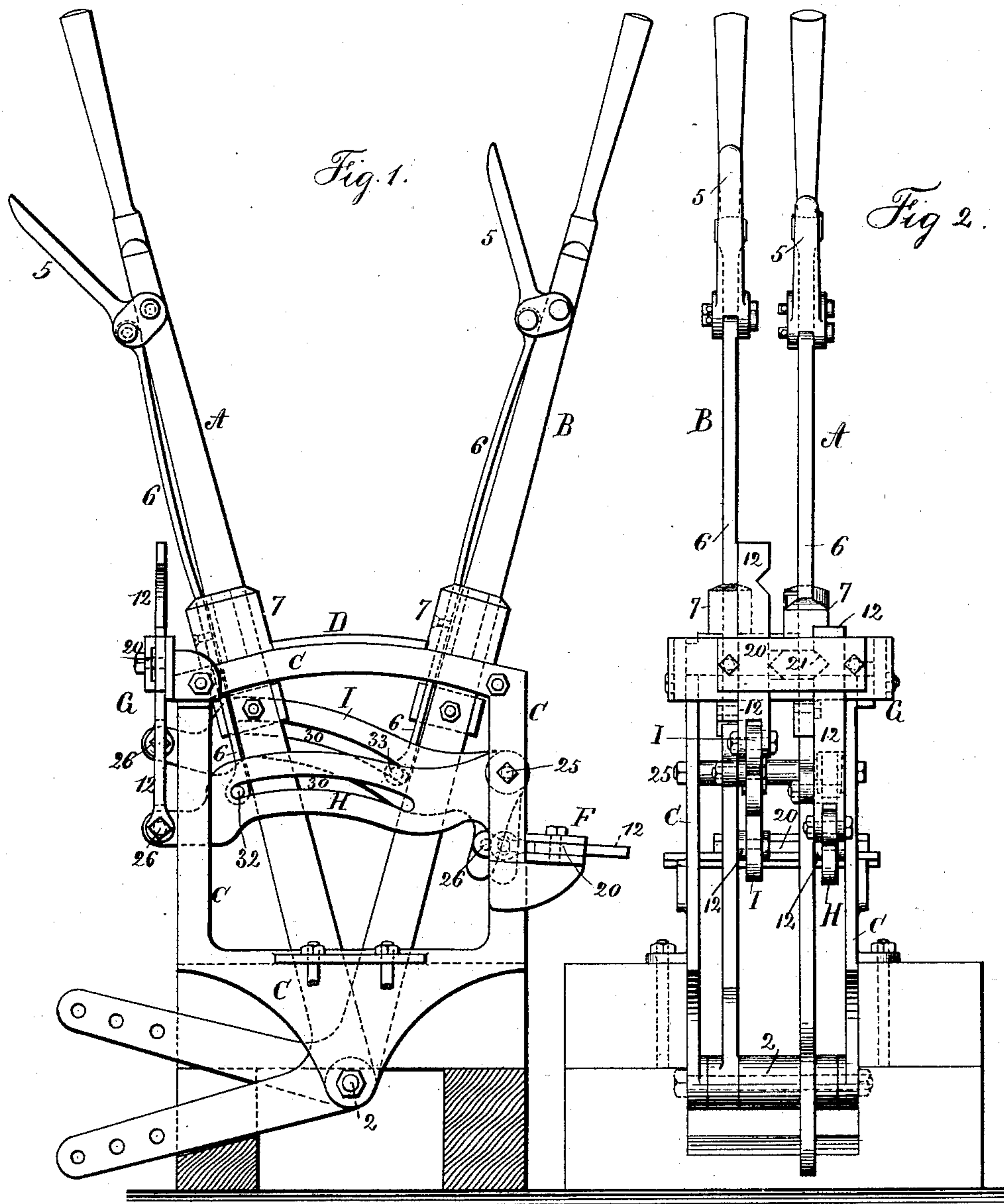
(No Model.)

I. MAY.

SWITCH AND SIGNAL LOCK.

No. 374,312.

Patented Dec. 6, 1887.



Witnesses:
J. Stair
Charles Smith

Inventor:
Isaac May
per Lemuel W. Serrell Atty

UNITED STATES PATENT OFFICE.

ISAAC MAY, OF BROOKLYN, NEW YORK.

SWITCH AND SIGNAL LOCK.

SPECIFICATION forming part of Letters Patent No. 374,312, dated December 6, 1887.

Application filed August 10, 1887. Serial No. 246,553. (No model.)

To all whom it may concern:

Be it known that I, ISAAC MAY, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Switch and Signal Locks, of which the following is a specification.

A reference is hereby made to Letters Patent No. 347,494, granted to me August 17, 1886, for a description of the general character and mode of operating switch and signal locks, as the present is a modification of and improvement upon the said switch-lock.

In the drawings, Figure 1 is an elevation sidewise of the levers. Fig. 2 is an elevation edgewise of said levers, and Fig. 3 is a plan view with the levers in section.

The levers A B are represented as pivoted at 2 upon the base of the frame c, and they swing in slots between the segments D, the segments being fastened to the frame C. The pivoted handle 5 is upon each lever, and it is made to operate the holding device as heretofore usual, and the rod 6 and drop-box 7 correspond to those in my aforesaid patent.

I make use of a locking-bar, 12, moving endwise across the lock-box 20, that is made hollow and contains the bolts 21, with V-shaped ends, the same as in my aforesaid patent, and such lock-box may be at either side of the lever.

At F, I have shown the lock-box in the same position as in my said patent, and the locking-bars nearly horizontal, and at G the same lock-box is shown with the locking-bars nearly vertical. Either or both forms may be made use of, and the levers may be increased in number to any desired extent.

My present improvement relates to the combination, with the levers and holding devices and the lock-bars, lock-box, and bolts, of slotted levers pivoted upon the frame and connected with and moving the lock-bars, and themselves being moved by the handles 5 and links or rods 6, so that the lock-bars are moved but a short distance; but that movement is before the lever A or B can be moved, and thereby the length and extent of motion of the lock-bar, as in my

aforesaid patent, are avoided. The bent and slotted levers H I are pivoted at 25 between the frames C, and the respective lock-bars are connected at their ends by the hinges or pivot-bolts 26, and the levers H I are slotted longitudinally at 30, and 32 33 are the pins at the lower ends of the rods 6, that enter the slots in such levers H I and move said levers when the handles 5 are actuated in grasping the lever A or B to move the same. It will now be understood that the lever A is represented in the normal position, and that the lever B is shown as having been moved, and in so doing the lock-bars therewith connected have first been given a motion by the handle 5, rod 6, and lever I, and locked the bars that are connected with the lever H, so that the handle 5 of the lever A cannot be moved; neither can the lever A be moved until the lever B is brought back to its normal position, so that the locks with V-shaped ends can be moved in either direction to lock the switch or signal handle automatically that remains in a fixed or normal position.

By the use of a range of locks within the lock-box, as seen in the aforesaid patent, the present improvement is rendered available with three or more switch or signal levers to effectually prevent a second lever being moved until the first lever is restored to its normal position.

I claim as my invention—

The combination, with the frame, the switch or signal levers, and the notched locking-bars, lock-box, and locks, of the bent levers pivoted at 25 to the frame and slotted longitudinally, and connected at their ends to the respective locking-bars, and the handles 5, rods 6, and pins entering the slots of the levers, substantially as set forth.

Signed by me this 6th day of August, A. D. 1887.

ISAAC MAY.

Witnesses:

WILLIAM G. MOTT,
HAROLD SERRELL.