

(No Model.)

W. H. SOUTHWORTH.
VALISE LOCK.

No. 535,630.

Patented Mar. 12, 1895.

Fig. 1

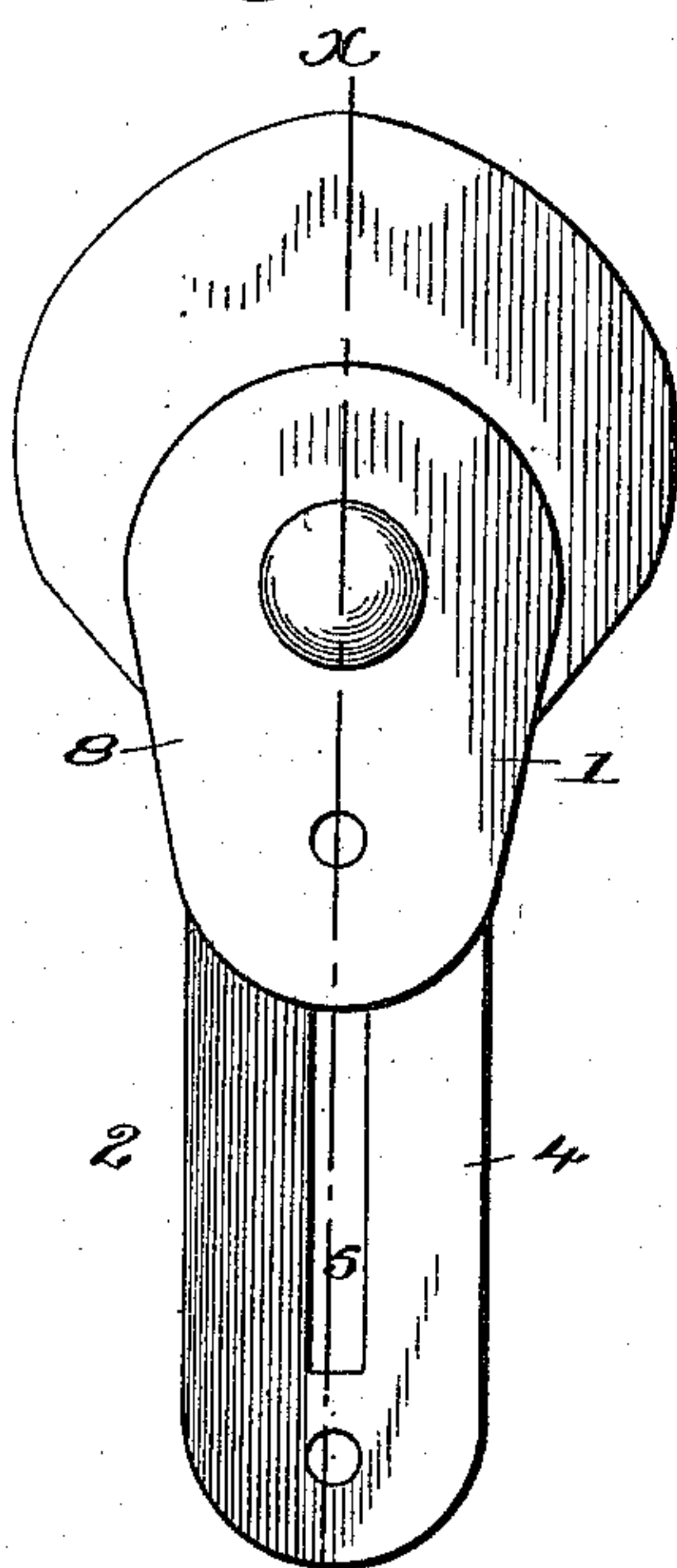


Fig. 2

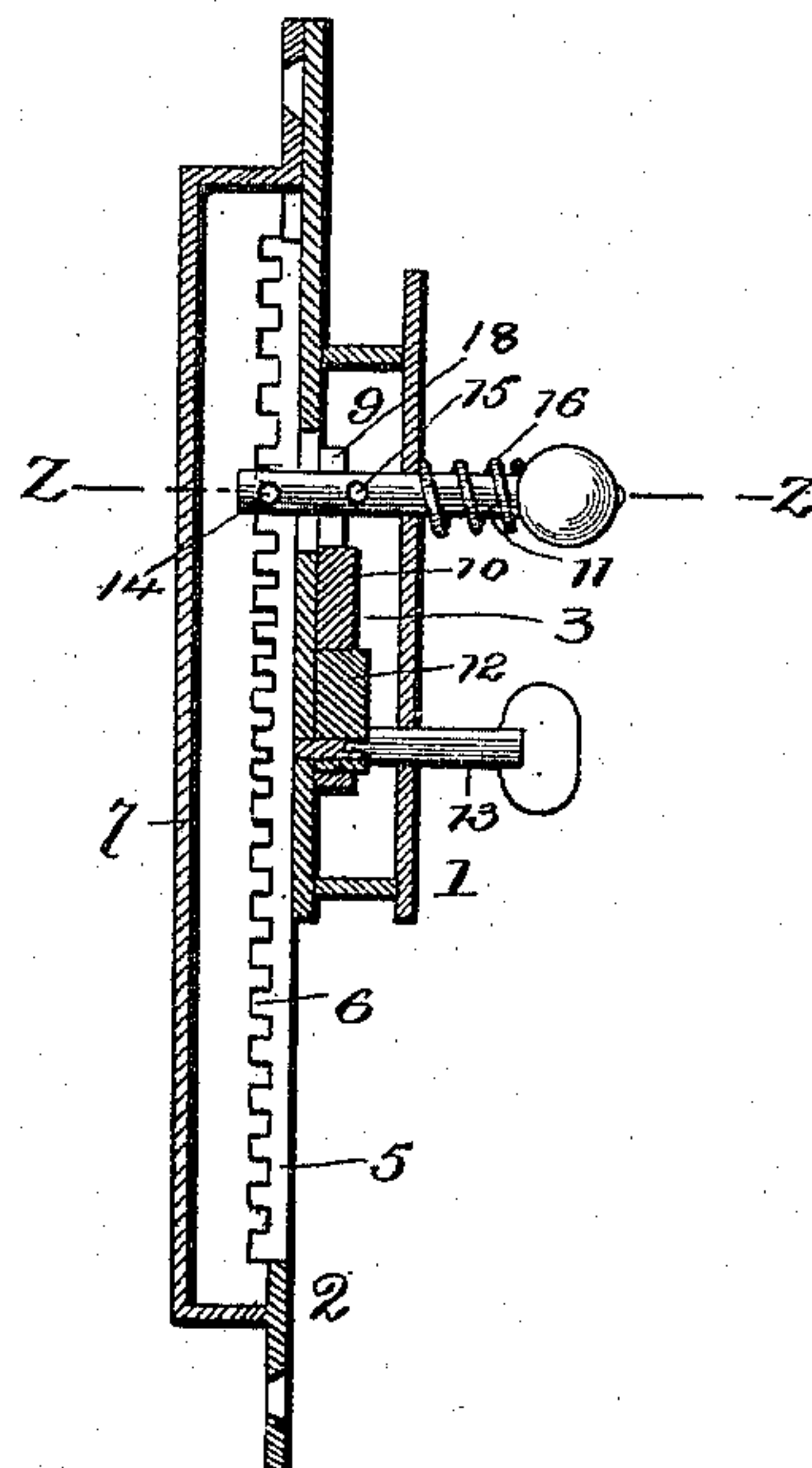


Fig. 3

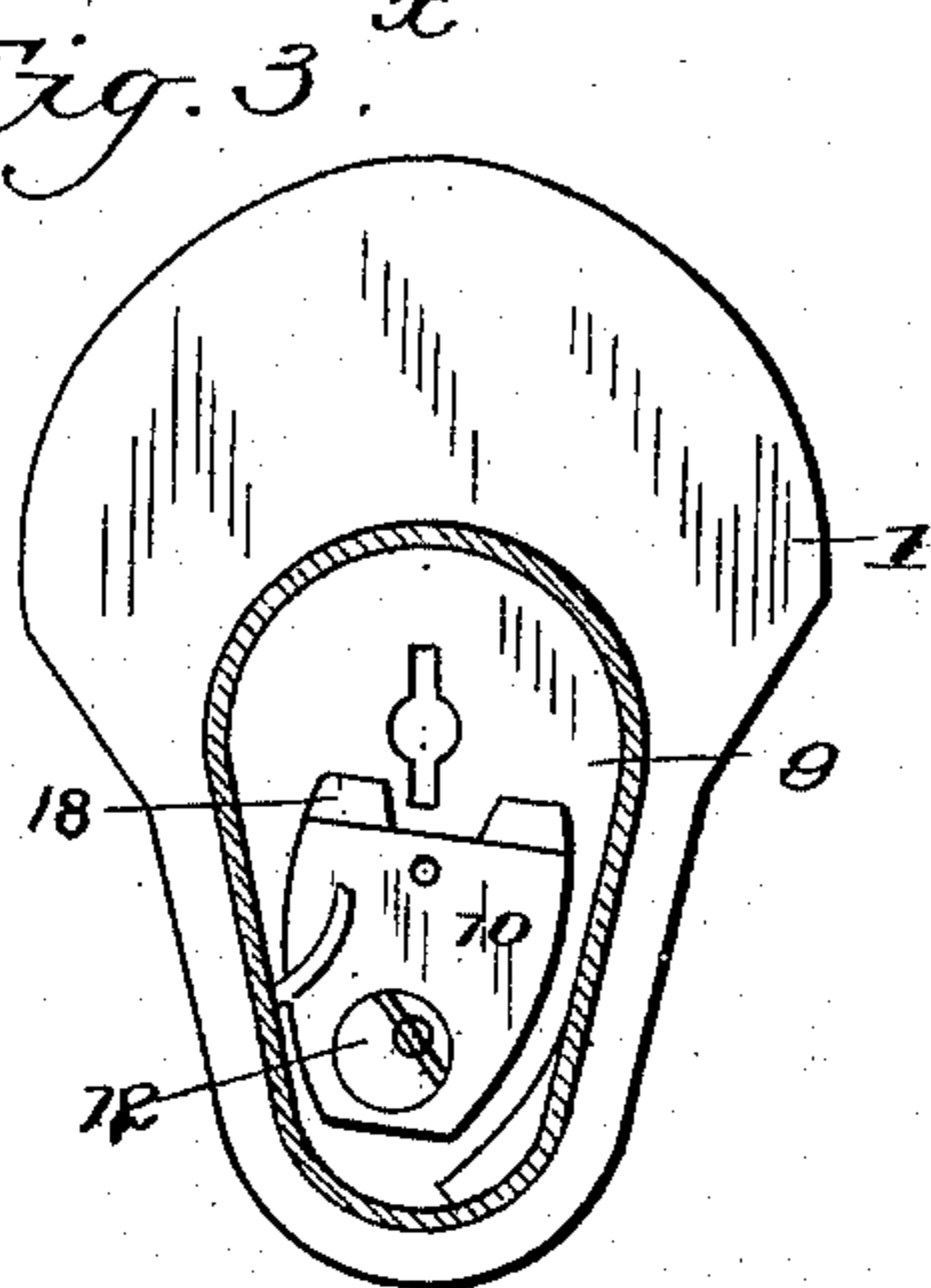
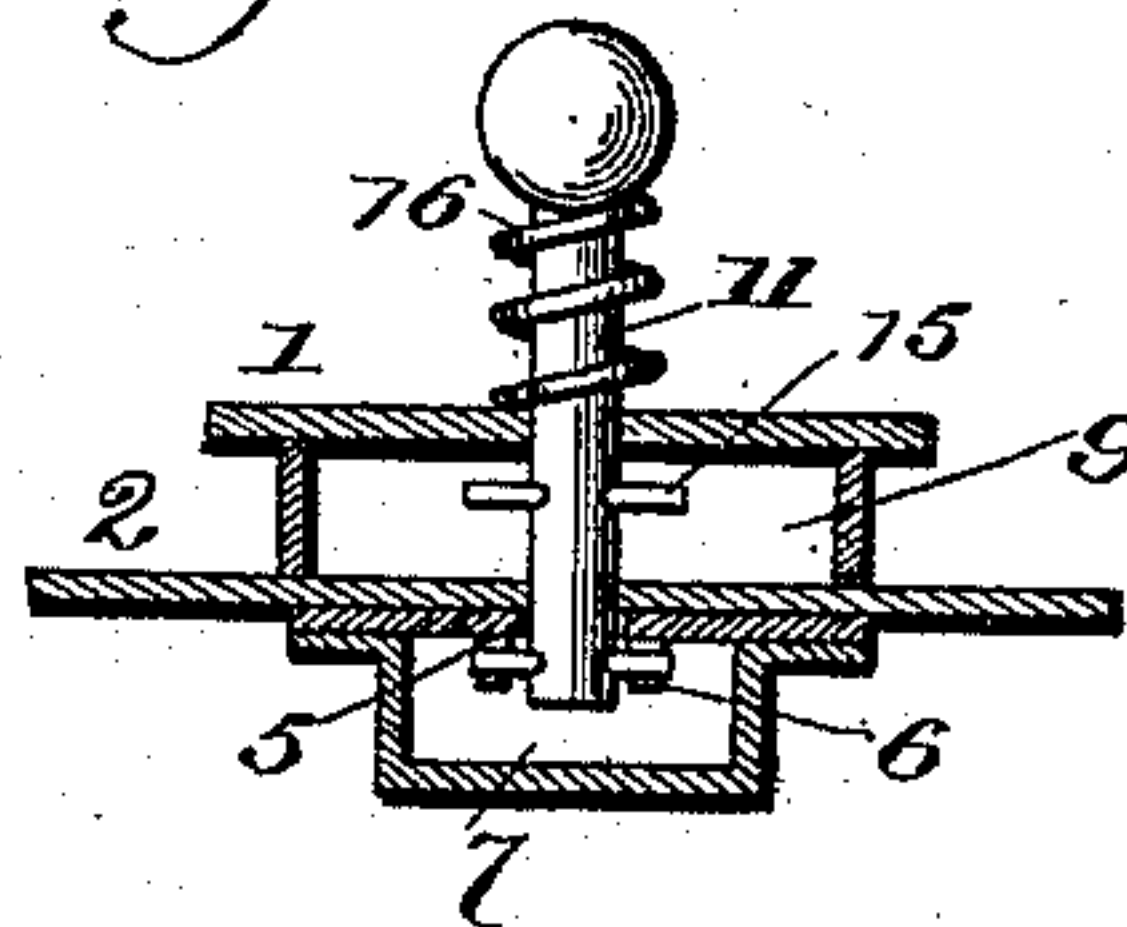


Fig. 4



Witnesses

J. M. Reynolds
U. B. Hillyard.

Walter H. Southworth

his Attorney

UNITED STATES PATENT OFFICE.

WALTER H. SOUTHWORTH, OF MOUNT VERNON, INDIANA, ASSIGNOR OF
ONE-FOURTH TO BENJAMIN K. TURNER, OF CORYDON, KENTUCKY.

VALISE-LOCK.

SPECIFICATION forming part of Letters Patent No. 535,630, dated March 12, 1895.

Application filed August 9, 1894. Serial No. 519,910. (No model.)

To all whom it may concern:

Be it known that I, WALTER H. SOUTHWORTH, a citizen of the United States, and a resident of Mount Vernon, in the county of Posey and State of Indiana, have invented certain new and useful Improvements in Valise-Locks; and I do hereby 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 locks for telescoping valises, grips, parcel-holders and all cases which comprise separable parts that are adapted to slip the one within the other.

The purpose of the invention is to devise a lock of simple construction for connecting the parts of the case in the adjusted position and which will be efficient and easily manipulated. The invention consists of the novel construction of lock which will be hereinafter more fully described and claimed and which is shown in the accompanying drawings, in which—

Figure 1 is a front elevation of a lock embodying the invention. Fig. 2 is a longitudinal section on the line $x-x$ of Fig. 1. Fig. 3 is a front view of the lock proper the obverse side of the case being removed. Fig. 4 is a cross-section on the line $z-z$ of Fig. 2.

The lock or fastening comprises the parts 2 and 3 which are adapted to be attached respectively to the telescoping parts of the valise, grip or case. The part 2 is composed of a plate 4 having a longitudinal slot 5 and ratchet teeth 6 contiguous to the edges of the slot 5. A housing 7 on the rear face of the plate 4 protects the ratchet teeth 6 and extends over the slot 5. The plate 4 is provided with openings at suitable intervals and receives fastenings by means of which it is secured to the valise or case to which the lock is to be applied. The part 3 is composed of a plate 8 and a case 9, the latter inclosing the tumbler 10 by means of which the locking bolt 11 is fastened, said tumbler being operated by a cam or eccentric 12 provided with a key seat 13. The locking bolt 11 is provided with cross-pins 14 and 15 located a short distance apart and is adapted to have a limited longitudinal movement in the case 9 and

plate 8. A spring 16 mounted on the outer ends of the locking bolt 11 serves to hold the said locking bolt at the limit of its outer movement and the cross-pin 14 in engagement with the ratchet teeth 6. This spring 16 is confined between the outer plate of the case and a thumb piece on the outer end of the locking bolt.

The operation of the invention is as follows:—The parts 2 and 3 of the lock being secured respectively to the telescoping parts of the valise or case are secured together by the inner end of the locking bolt 11 passing through the slot 5 in the part 2 and having the cross-pin 14 engaged with corresponding teeth 6 on opposite sides of the slot 5. The locking bolt 11 is rotated on its axis to permit the cross-pin 14 to pass through the slot 5 and is again given a quarter turn to throw the pin 14 to set crosswise of the slot 5 and have its ends engaged with the ratchet teeth 6. If it be required to adjust the parts the one on the other, the locking bolt 11 is pressed in a sufficient distance to disengage the cross-pin 14 from the teeth 6. After the parts have assumed the proper position the locking bolt is released and the spring 16 will press the said locking bolt outward to cause the cross-pin 14 to engage with the teeth 6 and hold the parts in the required position. By inserting a key 17 into the case and engaging it with the cam 12 the latter can be turned to project the tumbler 10 in the path of the cross-pin 15 and prevent turning of the locking bolt 11, thereby fastening the parts in the required position. The tumbler is provided at its upper edge with a projecting portion 18 which is notched opposite the locking bolt and which comes between the plate 8 and the cross-pin 15 to prevent the locking bolt being pressed inward and disengage the pin 14 from the ratchet teeth 6. It will be seen that the tumbler secures the locking bolt from turning as well as from longitudinal movement, thereby affording a double security.

Having thus described the invention, what is claimed as new is—

1. In a lock of the character described the combination of a slotted plate having teeth extending along one edge of the slot, a plate, a locking bolt adapted to have a rotary and

longitudinal movement in the plate and provided with two cross-pins, a spring for holding the locking bolt at the limit of its outward movement and a key-operated tumbler to engage with the inner cross-pin on the locking bolt and secure the latter in the required position, substantially as set forth.

2. In a lock, the combination of a slotted plate provided with teeth along one edge of the slot, a second plate, a locking bolt mounted in the latter plate and adapted to have both a rotary and longitudinal movement and having two cross-pins located at a short distance apart, a key-operated tumbler provided with an extension which is notched in its edge to receive the locking bolt and which is adapted to come between the inner cross-pin and the said second plate, substantially as and for the purpose specified.

3. The herein described lock composed of a

slotted plate having teeth along each edge of the slot and having a housing to protect the said teeth and slot, a plate 8 provided with a casing, a locking bolt adapted to have a rotary and a longitudinal movement in the said plate and case and provided with two seats or cross-pins, a spring holding the locking bolt at the limit of its outward movement and a key-operated tumbler having a projecting portion 18 notched at one edge and adapted to come between the plate 8 and the cross pin 15, substantially as and for the purpose specified.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WALTER H. SOUTHWORTH.

Witnesses:

J. L. CUMMINGS,

GEORGE FELDMANN.