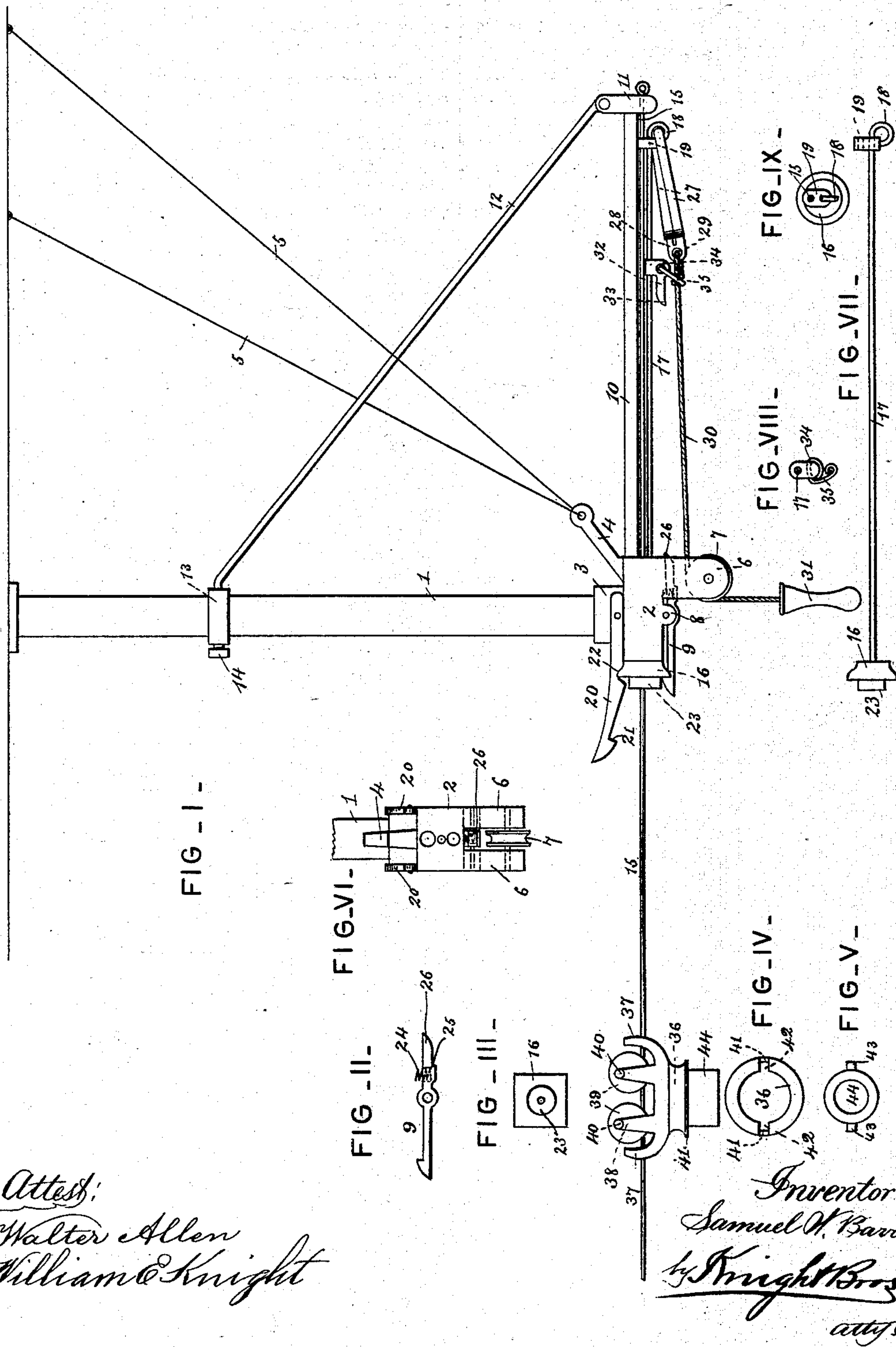


(No Model.)

S. W. BARR.  
STORE SERVICE APPARATUS.

No. 413,480.

Patented Oct. 22, 1889.



Attest:  
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# UNITED STATES PATENT OFFICE.

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## STORE-SERVICE APPARATUS.

SPECIFICATION forming part of Letters Patent No. 413,480, dated October 22, 1889.

Application filed April 4, 1889. Serial No. 305,952. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL W. BARR, a citizen of the United States, and a resident of Mansfield, in the county of Richland and State of Ohio, have invented new and useful Improvements in Store-Service Apparatus, of which the following is a specification.

The object of my invention is to provide improved means for propelling the carrier.

My invention relates to a propelling device for cash apparatus for store service; and my improvement consists in the construction of such apparatus, as hereinafter described, and pointed out in the claims.

In order that my invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure I is a side elevation of my improved apparatus showing a single station. Fig. II is a side elevation of a catch-lever for retaining the carrier. Fig. III is an end view of the propelling-block. Fig. IV is a bottom view of the carrier, the cup or cash box being omitted. Fig. V is a top view of the cup or cash box. Fig. VI is a rear elevation of the supporting-block. Fig. VII is a side elevation of the propelling-block and its rod. Fig. VIII is a rear elevation of the slidable trip-lever. Fig. IX is a rear elevation of the propelling-block and rod, showing the loop or link.

1 is a support in the form of a piece of gas-pipe secured to a ceiling or overhead floor. To the lower end of this support is rigidly secured a supporting-block 2, formed with a boss 3, by which it is connected to the support, with a rear upwardly-extending arm 4, with which the stay-wires 5 engage, with downwardly-extending cheek-plates 6, forming bearings for a pulley 7, and with ears 8, forming bearings for a catch-lever 9 beneath the block.

10 is a pipe or rod of small diameter screwed into the rear end of the supporting-block 2 and extending horizontally to a suitable distance. Secured to the outer end of this pipe or bar is a cross-head 11, braced by a rod 12, extending therefrom to the support 1 and fastened to a collar 13, adjustable on the support and held at desired height by a set-screw 14.

15 is a track-wire passed through the sup-

porting-block 2 and secured to the cross-head. At the front of the block is a propelling-block 16, loosely mounted on the track-wire so as to slide freely on the latter when released, and having a rearwardly-extending rod 17, sliding in the supporting-block, formed with an eye or circle 18 at its outer end, where it is supported on a loop or link 19, sliding therewith on the wire.

The supporting-block 2 is also provided with a pair of hooks 20, hinged one on each side of and to the boss 3, each hook being formed with catches 21 and recesses 22. The propelling-block, when in normal position, occupies the recesses while the catches retain the carrier. Recessed into the propelling-block is the inner portion of a rubber bumper 23, through which the track-wire also passes. The catch-lever 9 is pressed into engagement with the propelling-block by means of a spiral spring 24, seated in a recess 25 in the upper side of the catch-lever. This catch-lever is also formed at its rear end with an under bevel or undercut 26.

27 is a rubber or spiral propelling-spring, providing means for advancing the propelling-block. It is passed through the eye or circle 18, and has its ends secured to a U-shaped piece 28, formed with an eye or perforation 29. To this eye or perforation is secured the inner end of an operating-cord 30, which passes over the pulley 7 and is provided with a handle 31.

32 is a sliding trip-finger, providing means for removing the catch-lever from the propelling-block. It is mounted on the propelling-rod and formed with a bevel 33 on its upper side, adapted to impinge upon the rear end of the catch-lever. The knuckle 34 of this trip-finger is connected with the operating-cord near the U-shaped piece by means of the link 35. The carrier-frame 36 is cast integral with bumper-extensions 37 at each end, and with arms 38, extending upward for the wheels 39, having side extensions or projections 40 at their tops for the catches 21. The lower portion of the carrier-frame is cylindrical in form, simulating an inverted cup. It has a flange 41 on its inner lower edge, formed with notches 42 at opposite points for pins 43 on the cup or cash box 44. These



pins pass up through the notches, and the box being turned the pins rest on the flange.

To propel the carrier the operator pulls on the operating-cord and stretches the propelling-spring, which action draws the trip-finger toward the propelling-block until the end of the trip-finger wedges under the end of the catch-lever and removes its catch from the propelling-block. The tension of the propelling-spring being on the propelling-block and its rod, the hooks are raised from the carrier-frame by the propelling-block leaving the recesses 22, and the carrier is forced to the other station by the propelling-spring. When the carrier returns, it forces the propelling-block back; which is caught by the catch-lever, while the carrier is caught by the hooks, which are permitted to fall by the propelling-block being returned to its position beneath the recesses.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. A store-service apparatus comprising a track-wire, a propelling-block slidable on the wire, having a rod supported on the wire, a catch-lever for retaining the block, and a spring for advancing the block, substantially as described.

2. A store-service apparatus comprising a track-wire, a propelling-block slidable on the wire, having a rod, a loop or link slidable on the wire and supporting the rod, a catch-lever for retaining the block, and a spring for advancing the block, substantially as described.

3. A store-service apparatus comprising a track-wire, a propelling block slidable on the wire, having a rod supported on the wire, a catch-lever for retaining the block, a finger for tripping the lever, and a spring for advancing the block, substantially as described.

4. A store-service apparatus comprising a track-wire, a propelling-block slidable on the wire, having a rod supported on the wire, a catch-lever for retaining the block, a trip-finger slidable on the rod for tripping the lever,

and a spring for advancing the block, substantially as described.

5. A store-service apparatus comprising a track-wire, a propelling-block slidable on the wire, having a rod supported on the wire, a catch-lever for retaining the block, a finger for tripping the lever, a propelling-spring connected to the rod, and an operating-cord connected to the spring, substantially as described.

6. A store-service apparatus comprising a track-wire, a propelling-block slidable on the wire, having a rod, a loop or link slidable on the wire and supporting the rod, a catch-lever for retaining the block, a trip-finger slidable on the rod for tripping the lever, a propelling-spring connected to the rod, and an operating-cord connected to the finger and to the spring, substantially as described.

7. A store-service apparatus comprising the supporting-block, the track-wire, the propelling-block having a rod, the loop or link slidable on the wire and supporting the rod, the operating-cord, and the spring-connection between the rod and the operating-cord, substantially as described.

8. A store-service apparatus comprising a supporting-block, a rod extending rearwardly from the block, a cross-bar on the end of the rod, a track-wire passed through the block and secured to the cross-bar, a propelling-block slidable on the wire, having a rod slidable in the supporting-block and supported on the wire, a catch-lever, a trip-finger, and a spring, substantially as described.

9. A store-service apparatus comprising the supporting-block, the track-wire, the propelling-block having a rod, the loop or link, the spring, the operating-cord, the catch-lever, the trip-finger, and the hooks having catches and recesses 22, substantially as described.

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Witnesses:

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