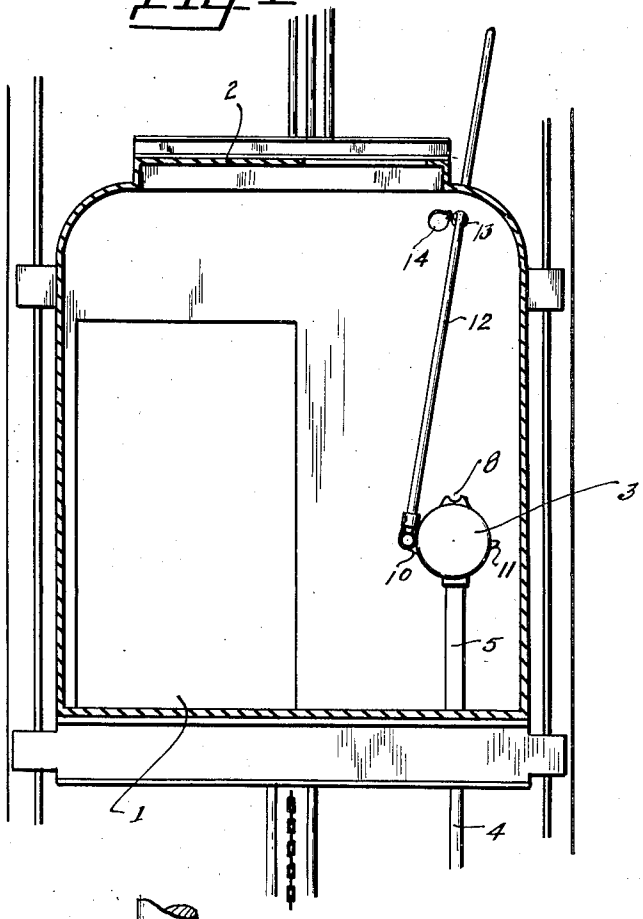
April 9, 1935. W. J. TRACY 1,996,984

REMOTE CONTROL FOR ELECTRIC ELEVATORS

Filed March 12, 1934

Fig. 1



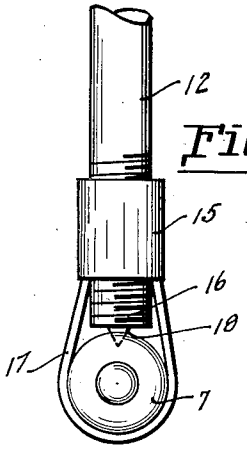


Fig. 3

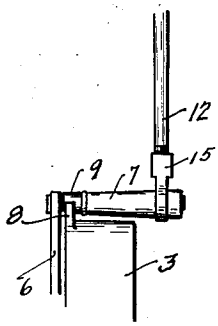


Fig. 2

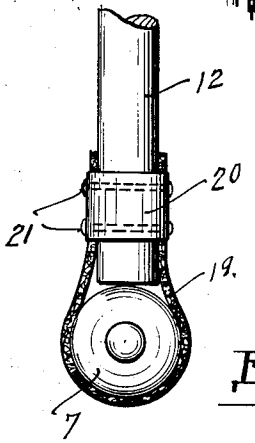


Fig. 4

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REMOTE CONTROL FOR ELECTRIC ELEVATORS

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Application March 12, 1934, Serial No. 715,116

4 Claims. (Cl. 187—28)

The invention primarily comprises a staff having a head disposed thereupon that is adapted to engage a handle of the elevator control. The staff passing through a suitable opening in the top of the dome of the elevator cage to thereby facilitate the manipulation of the staff passing therethrough that is secured to the handle of the electric elevator control. The handle engaging head of the staff may have adjusting means for tightening the same upon the handle of the elevator control or it may also be made of suitable stretchable reacting material to facilitate its being automatically clamped upon the handle.

The primary purpose and object of my invention consists in providing a remote control for passenger elevators in order that the elevator operator may adjust or repair the elevator while being remotely disposed from the operating lever of the control.

A still further object of my invention consists in providing facilities to enable one man to adjust and control and operate the elevator while disposed outside of the cage of the elevator.

Heretofore it has been general custom in the general repair and altering of passenger elevators for an operator to remain within the cage of the elevator and to have the repair man signal to the operator, by voice or otherwise, and to direct the movements of the elevator thereby.

Through the use of my new and improved remote control, it is possible for the repair man in the alteration and adjustment of the passenger elevator to operate the elevator from a remote control station and to also make fine adjustments, and experience the feel of the control even though remotely disposed from the operating lever.

A still further object of my invention consists in so constructing the device that it may be adapted to the operating lever of an electric passenger or freight elevator and removed therefrom without delay.

With these and incidental objects in view, the invention consists in certain novel features of construction and combination of parts, the essential elements of which are set forth in the appended claims, and a preferred form of embodiment of which is hereinafter shown with reference to the drawing which accompanies and forms a part of this specification.

In the drawing;

Fig. 1 is a sectional side view of an electric passenger elevator illustrating one of my new and improved devices secured thereto and extending through the dome of the elevator.

Fig. 2 is a fragmentary side view of the control box and the control lever of an electric elevator, illustrating one of my new and improved controls secured thereto.

Fig. 3 is a front view of one of the embodiments of my invention in which the clamping head is adjustably secured to the staff to thereby lock the control lever to the head and to prevent rotation of the same therein.

Fig. 4 is a side view of a modified form of attachment control over that illustrated in Fig. 2 and Fig. 3.

Like reference characters refer to like parts throughout the several views.

1 is an electric elevator. 2 is the dome or top of the electric elevator cage. The control box for the elevator is shown at 3. The electric cables conducting electricity thereinto are shown at 4. A stand-pipe 5 supports the control and secures the same to the elevator cage. The manually manipulative control lever is shown at 6 and the handle for manipulating the same is illustrated at 7.

In most elevator controls a locator notch 8 is provided and which is the normal inoperative position of the handle and lever, the inner end 9 of the handle normally coming to rest within the locking notch. A longitudinal movement of the handle 7 is necessary in order to disengage the inner end 9 of the handle from locking engagement with the locking notch.

Stops 10 and 11 are disposed upon the control to limit the movement of the handle and lever in each direction.

I provide a staff 12 and I also provide a hole 13 within the top of the elevator cage and through which the staff 12 is made to pass. A locking closure 14 may be provided for closing the hole 13 when the staff is removed therefrom.

A locking head 15 is preferably adjustably securable to the lower end 16 of the staff 12. This may be accomplished by threadably attaching the head 15 to the lower end 16 of the staff. An engaging band 17 is secured to the head 15 upon its respective ends and is made sufficiently long to pass around the handle. It is quite desirable that the band and handle be not disengaged when my new and improved remote control device is in use. To provide disengagement of the same therefrom, I provide projecting switch 18 upon the lower end of the staff and the same may be forced within the handle by the tightening of the head 15 upon the threaded end 16 of the staff

12. Where the engaging band is made of live rubber or other stretchable reacting material it may be made as illustrated in Fig. 4. When so made the band 19 may be made of live rubber or other suitable material and be secured to a cylindrical carrier 20. The band and carrier are secured together and to the staff by suitable fastening rivets 21.

While I have here shown my device as being in position to facilitate the repair man operating upon the top of the elevator, the same may be done with equal facility by making a hole in the floor of the elevator and permitting the repair man to operate beneath the elevator as well as upon the top of the same.

While the form of mechanism herein shown and described is admirably adapted to fulfill the objects primarily stated, it is to be understood that it is not intended to confine the invention to the embodiment herein shown and described, as it is susceptible of embodiment in various forms, all coming within the scope of the claims which follow.

What I claim is:

1. In combination with an elevator cage having a handled control means disposed therewithin, a staff, a head disposed upon one end of the staff and comprising a yoke threadedly engaging the end of the staff and adapted removably to engage the handle of the control means, and means whereby the staff may protrude from the elevator cage.

2. In combination with an apertured elevator cage having a handled control means disposed therewithin, a staff adapted to protrude through the aperture, a spur mounted upon an end of the staff and coaxial therewith, and a yoke threadedly mounted upon the spurred end of the staff and adapted removably to engage the handle of the control means.

3. In combination with an apertured elevator cage having a handled control means disposed therewithin, a staff adapted to protrude through the aperture, and means disposed upon one end of the staff and adapted to engage the handle of the control means.

4. In a device of the class described, in combination with an elevator cage provided with a control having a handle, a staff, a head disposed upon one end of the staff and means for securing the head to the handle of the elevator control.

WILLIAM J. TRACY.