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ADJUSTING ATTACHMENT FOR COIN CONTROL LEVERS

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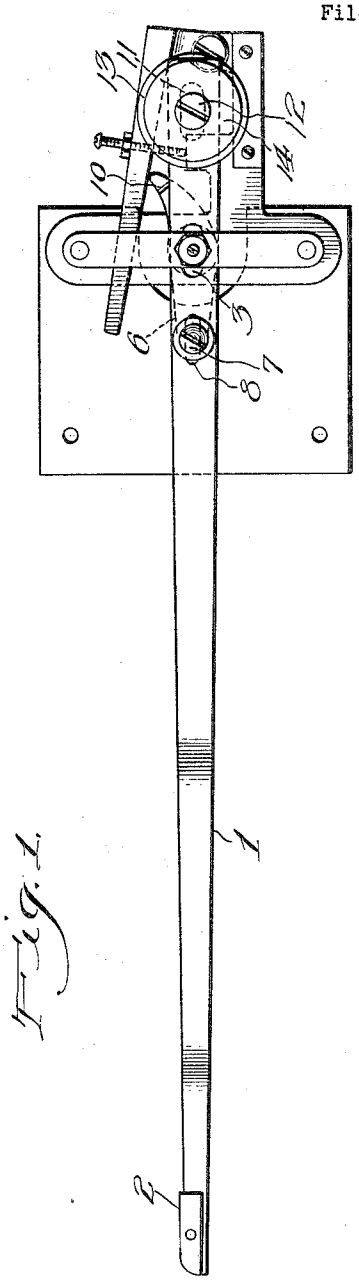



Fig. 1.

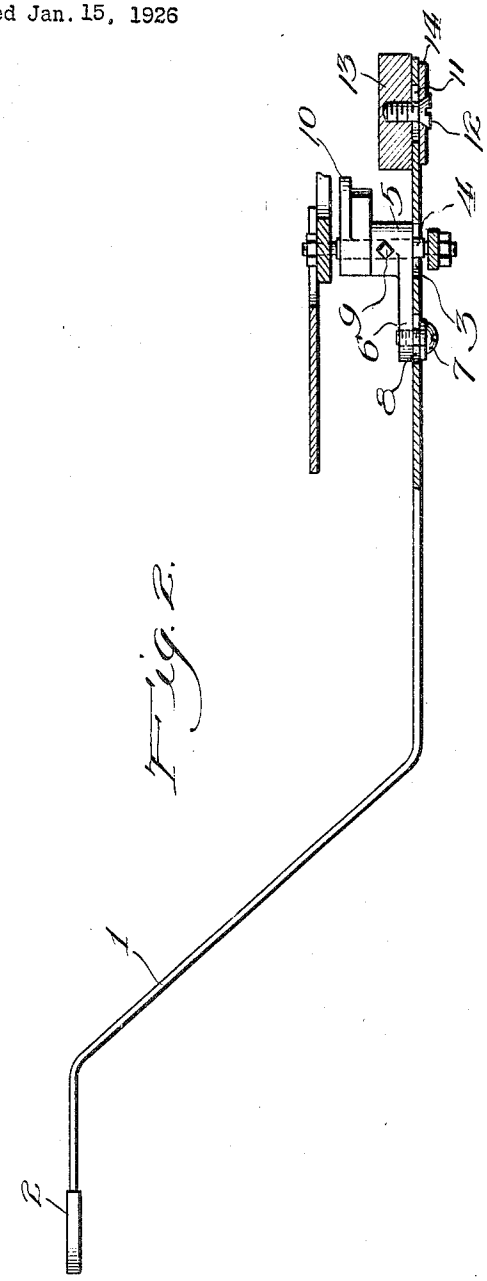



Fig. 2.

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# UNITED STATES PATENT OFFICE.

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## ADJUSTING ATTACHMENT FOR COIN-CONTROL LEVERS.

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This invention relates to improvements in adjusting mechanism for weighing scales, and refers more particularly to improvements in the adjustment necesary for weighing scales equipped with coin trip levers.

In the types of scales using a coin trip lever of considerable length, it is necessary to adjust the balance in order to obtain the necessary nicety of tripping action with regard to various weight coins; for instance, where pennies and nickles are used, it is not necessary to have such a delicate adjustment of balance due to the fact that the weight of a penny or nickle will trip the lever. However, where coins of other denominations are used, for instance, a dime which is much lighter in weight, it is necessary that the balance be more delicately adjusted. Further, it is necessary to provide an adjusting attachment which is visible and which is simple and easy to operate and easy of access.

The invention described in the following specification provides a very simple adjustment for this purpose, easily accessible, and certain in operation. Many advantages and objects will appear from the following description.

In the drawings,

Figure 1 is a side elevational view, and

Figure 2 is a top plan view, partly in section, illustrating the adjusting device of the present invention.

To avoid complicating the drawings, only those portions of the scale are shown which are necessary in combination with the invention.

Referring more in detail to the drawings, 1 designates the coin trip lever which preferably has a case hardened metal tip 2. This coin trip lever comprises a flat sheet of metal extending partially across the scale, and, as clearly shown in Figure 2, is offset intermediate its length in order to provide a sufficient length to create the proper leverage and at the same time avoid interference with the other mechanism. This coin lever is apertured as shown at 3 and loosely mounted on the shaft 4. The hub casting 5 has an extension 6, which extension is attached intermediate the length of the coin lever by means of the screw 7 passing through the aperture 8. This hub casting 5 is preferably mounted so as to be movable on the shaft and is fixed in adjusted position by means of the set screw 9. A tripping mechanism 10 is shown diagrammatically.

The inner end of the coin lever may be slotted longitudinally of its length, as shown at 11, to allow for longitudinal movement of a screw 12 to which is connected a suitable weight 13, a washer 14 being inserted between the head of the screw and the coin trip lever to insure a tight fit. It is obvious that by loosening the tight screw connection and moving same in the slot 11, it is possible to adjust the balance imposed by the weight 13. In normal practice, however, this weight is generally inaccessible, being behind a flange or a portion of the main frame. The object of the weight 13 is to enable adjustment during assembling of the weight indicating mechanism in the factory.

However, it is sometimes desirable for the dealer, service man or other repair man, to make other adjustments in the balance after the machine has been assembled and has been put into use. My invention is particularly directed to accessible means for allowing easy and simple adjustment. The length of the slot 8 is, say, from two to three times the diameter of the screw 7, this being also true of the slot 3. By loosening the screw 7 and moving it either to the right or left within the confines of the slot 8, it is possible to vary the balance maintained on the coin lever, which produces the same result as moving the weight 13, and in addition constitutes an easily accessible means.

I claim as my invention:

1. In combination, a coin trip lever having slots intermediate its length, a shaft projecting through one of said slots on which said lever is loosely mounted, a collar on said shaft having an extension, and adjustable means having co-operative engagement through one of said slots with said coin trip

lever and said extension functioning to vary the balance of said coin trip lever.

2. In combination, a coin trip lever having slots intermediate its length, a shaft projecting through one of said slots on which said lever is loosely mounted, a collar on said shaft having an extension, adjustable means having co-operative engagement through one of said slots with said coin trip lever and said extension functioning to vary the balance of said coin trip lever, and an auxiliary balance adjusting mechanism on one end of said coin trip lever.

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