

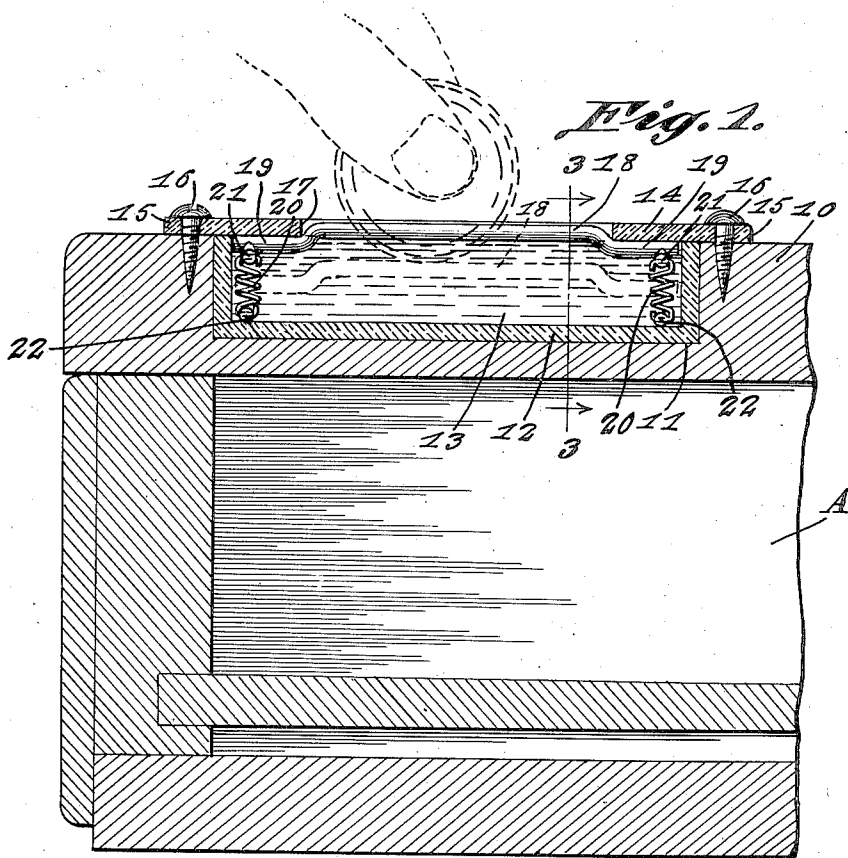
June 23, 1936.

J. J. WILLIS

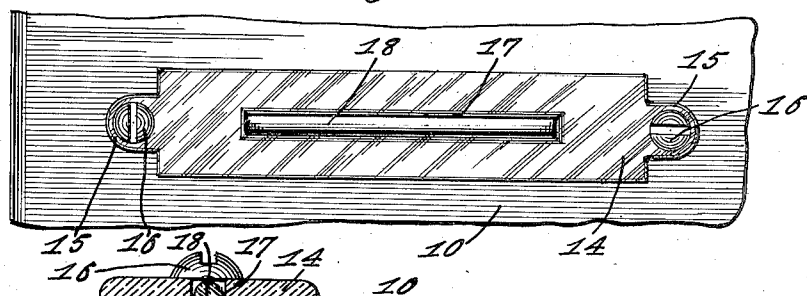
2,044,824

COIN DETECTOR

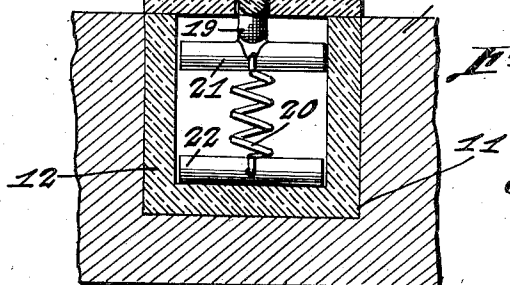
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*Fig. 2.*



*Fig. 3.*



John J. Willis, INVENTOR  
BY Victor J. Evans, Atty.

WITNESS

ATTORNEY

## UNITED STATES PATENT OFFICE

2,044,824

## COIN DETECTOR

John J. Willis, Comstock, N. Y., assignor of one-fifth to Mary Willis, Comstock, N. Y.

Application October 1, 1935, Serial No. 43,102

1 Claim. (Cl. 73—51)

The invention relates to a coin detector and has for its primary object to provide a device of this kind, wherein spurious coins can be readily and easily detected, the device being mountable in a cash register or in a cashier's counter or other place for its support so as to be handy for use in testing coins to ascertain whether or not the same are spurious or counterfeit.

Another object of the invention is to provide a device of this kind, wherein a testing fluid can be held so that when a coin is subjected thereto it will determine whether or not the same is spurious or legitimate, that is silver species, and is convenient for use.

A further object of the invention is the provision of a device of this kind, which is extremely simple in construction, thoroughly reliable and efficient in its purpose, and inexpensive to manufacture and install.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawing, which discloses the preferred embodiment of the invention and pointed out in the claim hereunto appended.

In the accompanying drawing:

Figure 1 is a fragmentary vertical sectional view through a cash register showing the device constructed in accordance with the invention fitted therewith.

Figure 2 is a fragmentary top plan view.

Figure 3 is an enlarged sectional view on the line 3—3 of Figure 1 looking in the direction of the arrows.

Similar reference characters indicate corresponding parts throughout the several views in the drawing.

Referring to the drawing in detail, A designates generally a portion of a cash register and 10 its top rest slab preferably of glass or marble. This slab has a seat 11 formed therein to accommodate an elongated substantially rectangular shaped box-like body 12 forming a well for containing a testing fluid or solution 13, the formula for the solution being fifteen drops of nitric acid, twenty-four grains of nitrate of silver and a determined quantity of distilled water. The

body 12 is countersunk in the slab 10 and occupies the seat 11 therein.

Covering the open top of the body 12 is a slotted plate 14, it having end ears 15 through which are passed fasteners 16 for detachably securing the said plate in place and through the slot 17 in this plate is adapted to be introduced a coin for contact of the contents 13 or solution therewith as contained within the said body 12 and in this manner the coin can be tested to detect whether or not the same is spurious or made from precious metal or silver species of metal. The slot 17 is of a size to accommodate the largest coin, that is of the dollar denomination, while coins of the five cent, ten cent, twenty-five cent and fifty cent species or denominations can be readily inserted through the slot for the testing thereof.

Pressed into the slot 17 is a closure bar 18 having the offset ends 19 beneath the plate 14 beyond the slot 17 and these ends ride coiled compression springs 20 which are hooked to cross arms 21 formed on the said ends of the bar, the springs being also hooked to and rise from cross pieces 22 resting upon the bottom of the body 12 interiorly of the same.

What is claimed is:

A device of the character described comprising an elongated body open at its top and adapted for fitting within a support to have its open top flush with an exposed surface of said support, a cover overlying the open top of said body and having a slot for accommodating coins, a testing solution within the body and accessible through the open slot, a bar having an upstruck portion of a size corresponding to the slot for reception therein, cross pieces at opposite ends of the bar and of a length substantially equal to the interior width of said body, rest bars parallel with said cross pieces spaced beneath the same and of a length equal thereto, expansible springs fitted with the cross pieces and said rest bars for urging the first-mentioned bar to have the upstruck portion seated within said slot, and fastener ears at opposite ends of the cover and detachably secured with the support.

JOHN J. WILLIS.