

J. WIARDA

COUNTERFEIT COIN DETECTOR.

No. 188,712.

Patented March 20, 1877.

Fig. 1.

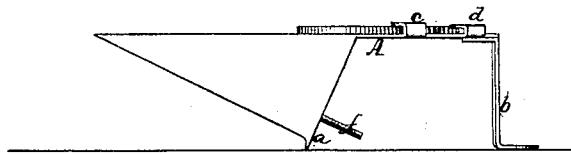


Fig. 2.

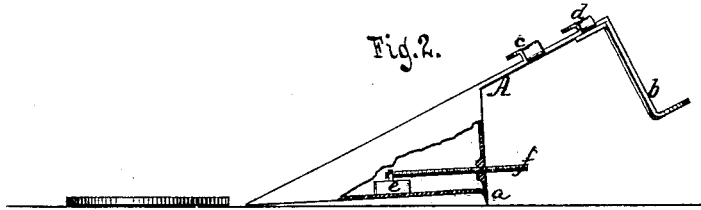


Fig. 3.



Witnesses

*Otto Skufeland.*  
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Inventor.

*John Wiarda*  
by  
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# UNITED STATES PATENT OFFICE

JOHN WIARDA, OF GREEN POINT, NEW YORK.

## IMPROVEMENT IN COUNTERFEIT-COIN DETECTERS.

Specification forming part of Letters Patent No. **188,712**, dated March 20, 1877; application filed February 22, 1877.

*To all whom it may concern :*

Be it known that I, JOHN WIARDA, of Green Point, in the county of Kings and State of New York, have invented a new and Improved Coin-Detector, which invention is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side view of my detector when a genuine coin is placed thereon. Fig. 2 is a sectional side view of the same when the coin is taken off. Fig. 3 is a plan or top view of the same with the coin on.

Similar letters indicate corresponding parts.

This invention consists in the combination, with a coin-supporting platform, of a knife-edged support, a balance-weight, and a stop, the coin-supporting platform being provided with gages which control the correct position of different coins, so that when the platform is placed in a horizontal position on a table or other support, and a genuine coin is placed against the gages provided for such coin, the platform retains its horizontal position; but if a base coin is substituted for the genuine coin, the platform is tipped up and the coin slides off from the same. With the balance-weight is combined an adjusting-screw, so that the same can be readily brought in the correct position.

In the drawing, the letter A designates a platform, which is provided in its middle with a knife-edged support, *a*, and at one end with a stop or leg, *b*. Near this end of the platform are two pairs of lugs, *c c d d*, the lugs *c c* forming gages for fifty-cent pieces, and the lugs *d d* for twenty-five-cent pieces. Below the platform A is situated a balance-weight, *e*, which can be adjusted by a set-screw, *f*. In the example shown in the drawing this weight is enclosed in a chamber or case secured to the under surface of the platform, and said weight rests on the bottom of this case; but it is obvious that the balance-weight may be combined with the platform in any desirable manner.

When my detector is placed on a horizontal surface, and the platform is brought in the position shown in Fig. 1, if a genuine fifty-cent piece is put on said platform against the gages *c c*, the platform will retain its position, the weight of the coin being just sufficient to keep the leg *b* in contact with the supporting-surface; but if a base fifty-cent piece is substituted for the good coin, the weight of which is less than that of the genuine coin, the platform tips up to the position shown in Fig. 2, and the coin slides off.

The gages *c c d d* are bent over in the form of hooks, leaving just room for the introduction of a genuine coin. If a coin is made of base metal, and of equal weight and diameter with a genuine coin, its thickness must be slightly increased, so as to produce the required weight. A coin of this kind finds no room beneath the gages *c c d d*, and its base nature is immediately detected. If desired, the capacity of my detector can be readily increased for three or four different kinds of coins, such as silver dollars, half-dollars, quarters, and ten-cent pieces.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with a coin-supporting platform, A, of a knife-edged support, *a*, a stop or leg, *b*, and a balance-weight, *e*, the platform being provided with gages which control the correct position of the coin to be tested, substantially as and for the purpose shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 14th day of February, 1877.

JOHN WIARDA. [L. S.]

Witnesses:

W. HAUFF,  
E. F. KASTENHUBER.