

W. H. RICE.  
Counterfeit-Coin Detector.

No. 196,168.

Patented Oct. 16, 1877.

Fig: 1.

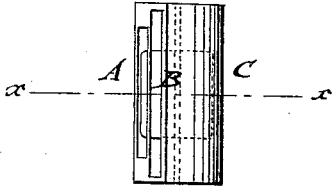


Fig: 2.

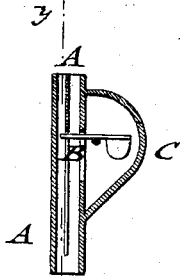


Fig: 3.

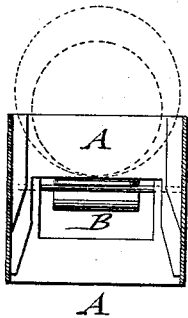


Fig: 4.

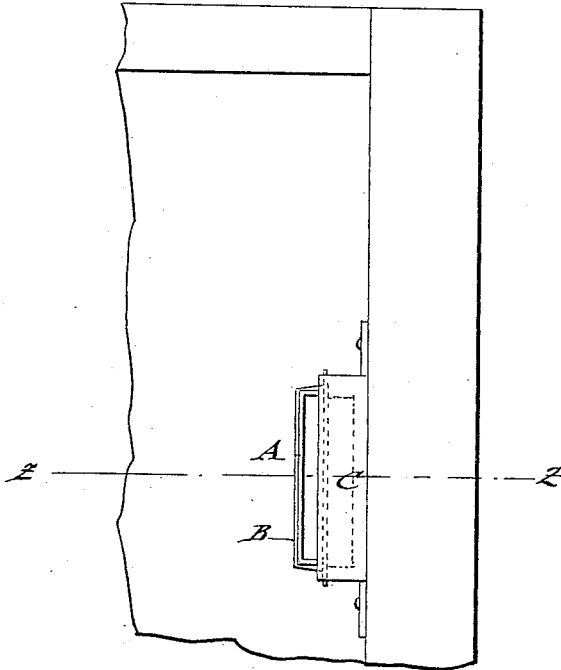
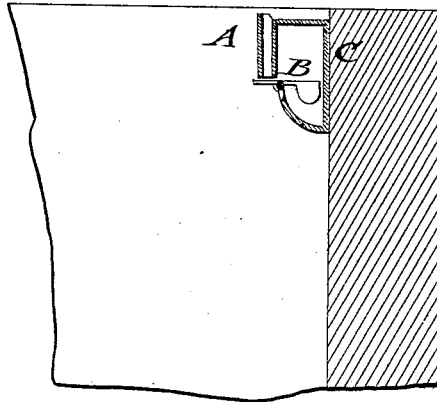


Fig: 5.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM H. RICE, OF NEW YORK, N. Y.

## IMPROVEMENT IN COUNTERFEIT-COIN DETECTERS.

Specification forming part of Letters Patent No. **196,168**, dated October 16, 1877; application filed April 23, 1877.

*To all whom it may concern:*

Be it known that I, WILLIAM H. RICE, of the city, county, and State of New York, have invented a new and Improved Coin-Tester, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view; Fig. 2, a vertical transverse section on line  $x x$ , Fig. 1; Fig. 3, a vertical longitudinal section on line  $y y$ , Fig. 2, of my improved coin-tester as adapted for pocket use; and Figs. 4 and 5 are a top view and vertical transverse section of the same on line  $z z$ , Fig. 4, shown as applied to a money-drawer, counter, &c.

Similar letters of reference indicate corresponding parts.

This coin-tester is intended to form a convenient, compact, and reliable device for pocket use, or for cash-tills, &c., by which the coins are exposed at one and the same time to the double test of weight and measurement, so as to detect at an instant the counterfeit pieces without attracting any attention to the testing of the same.

The invention consists of a coin-tester having one or more guide-tubes gaged in length and width for coins of different denominations, in connection with a fulcrumed and weighted trap-lever gaged to the weight of the genuine coins.

In the drawing, A A represent the tubes for the coins, of which one or more may be arranged above a fulcrumed and weighted trip-lever, B, that extends across the bottom opening of the tubes.

The tubes A are gaged in length and width to the size of the special coins to be tested, and the weight of the trip-lever gaged to the weights of the coins, the tubes for the smaller

coins being in front of the tube for the larger coin, so that the increased leverage compensates for the less weight of the smaller coins. The weighted trip-lever is inclosed in a casing, C, so as to be protected and not exposed to injury after being once adjusted. The tester is thereby capable of being carried in the pocket or attached by side flanges to a money-drawer, counter, or other receptacle. The coin to be tested is inserted into the proper tube, and then dropped, the genuine and full-weighted coin passing in without difficulty, and tripping instantly the weighted trip-lever, while the spurious coin, being either too large, is prevented from passing through the tubes, or, when the same is capable of passing into the tube, it is too light to trip the trip-lever, on account of the less specific gravity of the baser alloys, forming thus a twofold test that detects with absolute certainty the counterfeit coins. The test may be used without attracting attention and giving offense to the parties offering the coins, which is of special advantage and less objectionable for use in the trades.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A coin-tester consisting of a series of coin-tubes in which rests one arm of a lever weighted on the other, the coin of different denominations resting upon said arm at different distances from the fulcrum of lever, according to their respective weights, as shown and described.

WILLIAM H. RICE.

Witnesses:

PAUL GOEPEL,  
C. SEDGWICK.