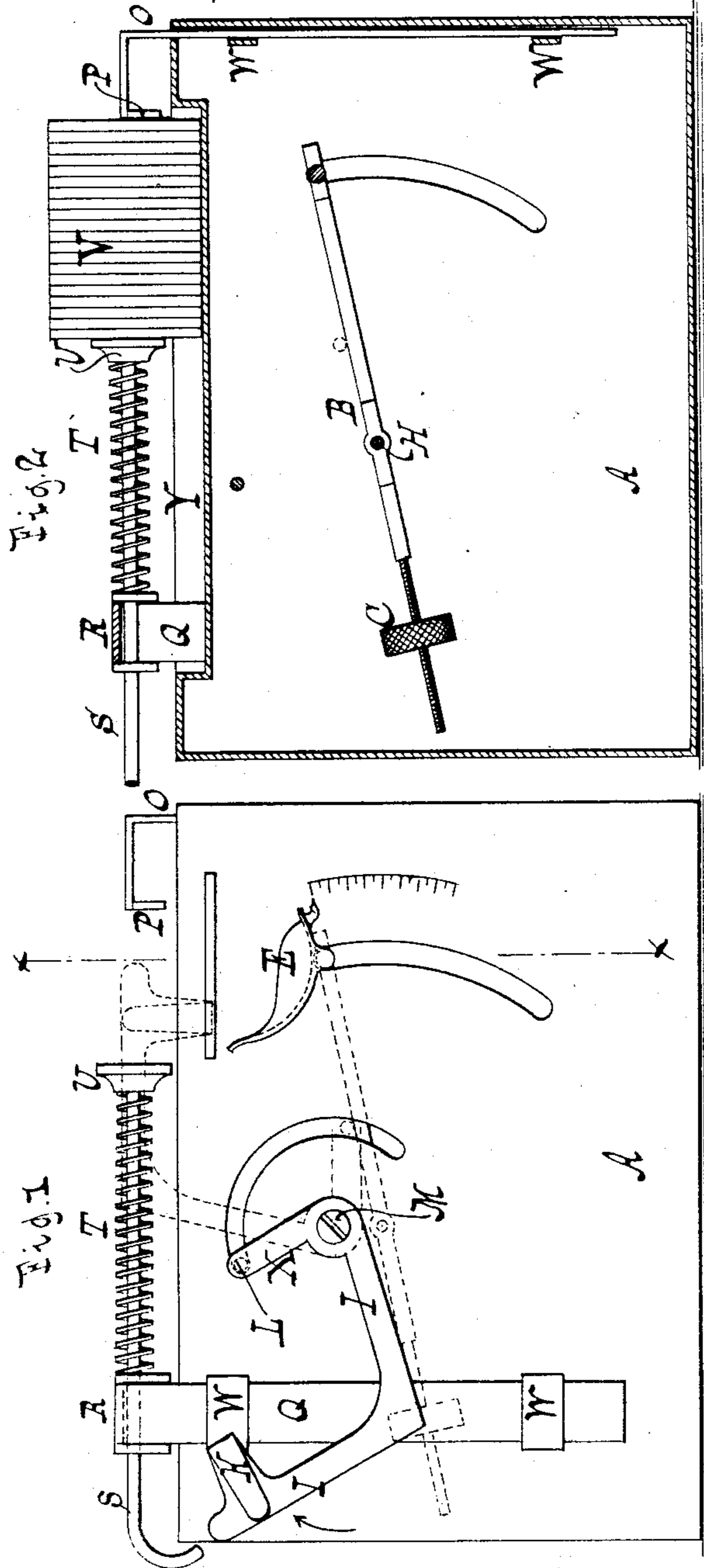


(Model.)

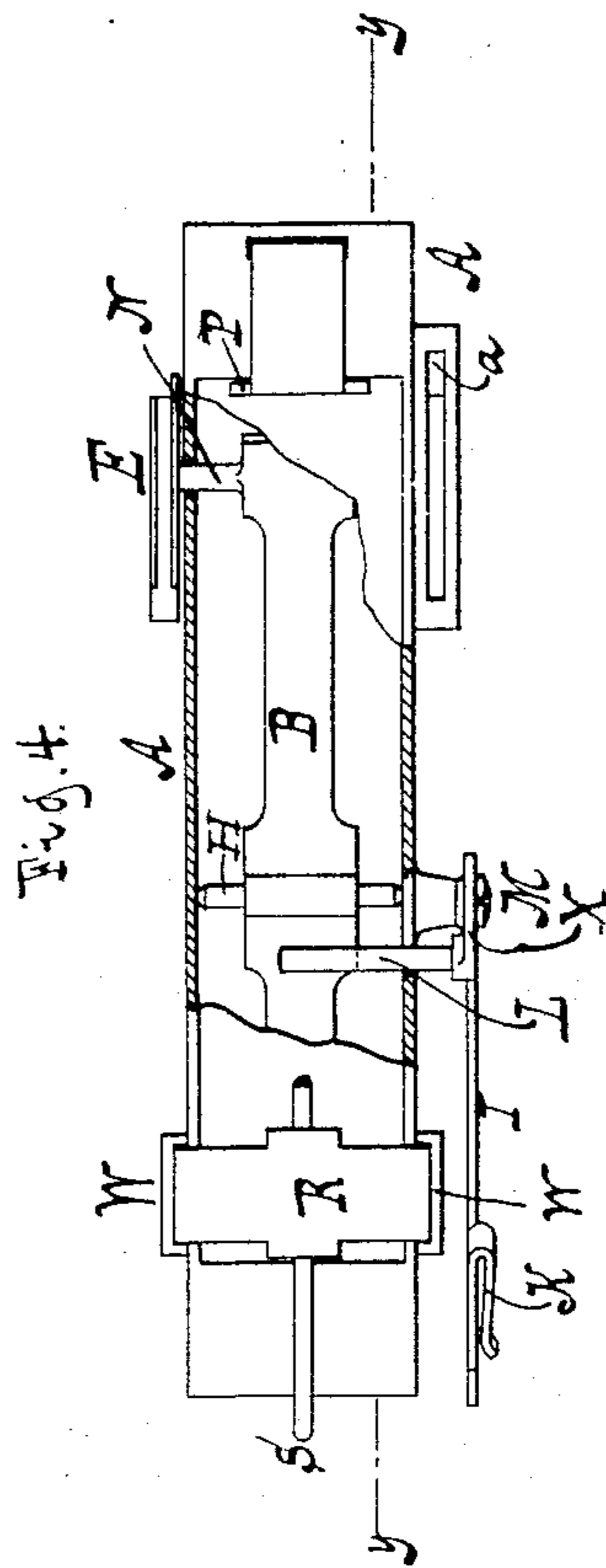
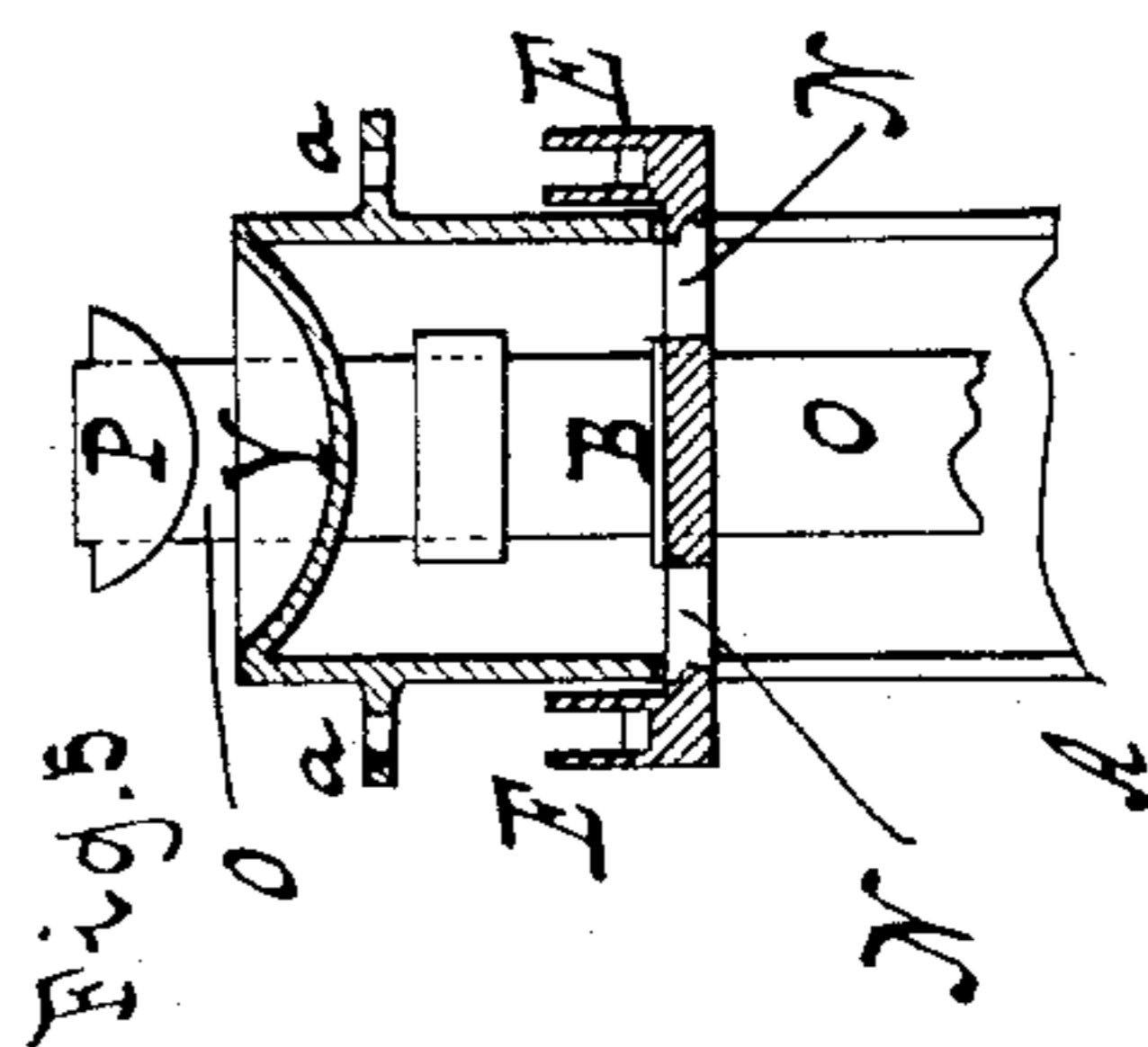
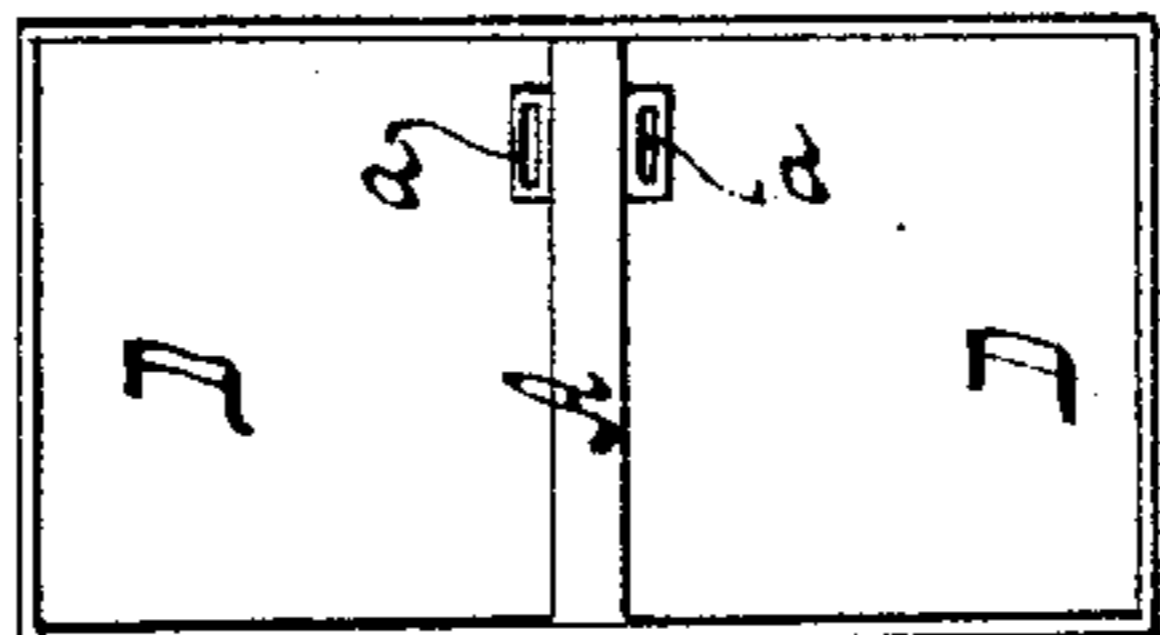
E. BACHMANN.
COIN DETECTOR.

No. 285,204.

Patented Sept. 18, 1883.



WITNESSES:
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UNITED STATES PATENT OFFICE.

EMIL BACHMANN, OF NEW YORK, N. Y.

COIN-DETECTOR.

SPECIFICATION forming part of Letters Patent No. 285,204, dated September 18, 1883.

Application filed June 14, 1883. (Model.)

To all whom it may concern:

Be it known that I, EMIL BACHMANN, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Coin-Detectors, &c., of which the following is a specification.

This invention relates to coin-detectors; and it consists in the combination, with a coin-tester, of a letter-weighing device, which may be brought into operative connection therewith; also, in providing such a detector with a coin-holder or roll, and in the novel features of construction and arrangement hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side view of the detector. Fig. 2 is a section in the plane $y y$, Fig. 4. Fig. 3 is a plan view of the detector and contiguous money-receptacles. Fig. 4 is a plan view of the detector with the inclosing-case partly broken away. Fig. 5 is a section in the plane $x x$, Fig. 1, partly broken away.

Similar letters indicate corresponding parts.

A indicates an inclosing-case, made of sheet metal or other suitable material. Within this case, about a fulcrum or pivot, H, swings or oscillates a lever, B, which is provided with a weight, C, which weight, being mounted on a screw-thread, as shown, may be adjusted nearer to or farther from the fulcrum H of the lever B, thus varying the efficiency of its action, as will be readily perceived. The other end of the lever B is provided with pans E E, supported on arms N N, projecting through slots in the case A, and said arms N N are placed at varying distances from the fulcrum or pivot H of the lever. The object of this arrangement is that the pan E, which is supported on the arm N nearer to the fulcrum or pivot H, will require a heavier coin to depress the lever B than that pan supported on the arm N farther from the pivot H. Each lever B is thus adapted for weighing coins of two different denominations, thus economizing space. In practice it will be well to make the arms N adjustable on the lever B by a screw-thread, or by a screw passing through a slot, or by any other means readily attainable by a mechanic, so that each arm N, with its pan E, may be adjusted just such a dis-

tance from the fulcrum H as is necessary to enable the coin intended to be tested to depress the lever B sufficiently to allow the coin to drop off the pan into one of the respective receptacles D D, Fig. 3.

Above the pans E, and projecting from the side of case A, are slotted tongues, forming inlet-throats $a a$, Fig. 3, and these inlet-throats are made of such a width as to allow only a certain size of coin to pass through, for the weighing of which particular coin the pan E immediately under said throat a is to be adjusted. The device thus serves both as a coin-detector and as a gage.

The lever B is shown as being straight; but it may be curved or shaped in any desired manner.

Swinging about a pivot, M, at the side of the case is a scale-beam or lever-arms, I X, the arm X of which has a finger or stud, L, passing through a slot in a case, A, sufficiently far that when the lever-arms I X are swung up in the direction of the arrow, Fig. 1, to the position shown in dotted lines, the finger L will strike upon the lever B. The arm I is provided with a hook or attaching device, K, into which a letter or other article may be inserted, and the action of the finger L on lever B will cause such letter or articles to be weighed. The hook or attaching device K may be made adjustable at varying distances from the pivot M, so as to secure accuracy in the operation of weighing.

The top of case A is provided with a channel or holder, Y, in which may be placed coins V, Fig. 2. Sliding in guides W are arms or supports O Q. The arm O supports a washer or finger, P, while the arms Q support a bridge, R, through which slides a finger, S, provided with a washer, U. A spring, T, tends to force the washer U toward the washer P, thus compressing or holding a roll of coins, V, which may be placed between them, and keeping them ready for being done up in a paper wrapper, if desired, which paper wrapper may be placed in the channel Y under the coins V. The arms O Q, sliding in the guides W, allow the compressing device to be adjusted at varying heights from the top of the case A, or, if not in use, to be pushed down into the channel Y.

I am aware that it is not new to have a coin

detector and receiver combined, as such is shown in United States Letters Patent No. 203,719, of May 14, 1878.

The advantages of my device are that it can
5 be made compact in form, taking up very little room and wasting no space, and it serves the various purposes of a money-drawer, money-gage, money-scale for varying denominations, money-roller, and letter-scale, while the ad-
10 justability of parts allows compensation for any wear of the apparatus.

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

1. A coin-detector consisting of the case
15 having a weighted lever, B, carrying pans E E, arranged as described, and having the coin-holder consisting of a channel, Y, and compressors U P, each supported upon a vertically-adjustable arm or slide, substantially as
20 described.

2. In a coin-detector, the combination, with the weighted lever B, of a bent arm, I, having

clasp K, and pivoted upon shaft M, and the arm X, rigid with the arm I, having stud L, which rests upon the beam B when the arm I 25 is turned into position for use, substantially as described.

3. In a coin-detector, the combination, with a weighted lever, B, provided with pans E, of arms or scale-beam I X, adapted to engage 30 with said weighted lever B, substantially as and for the purpose set forth.

4. In combination with a coin-detector, a money-roller consisting of a holder or chan-
nel, Y, and compressors U P, arranged and 35 adapted to operate substantially as set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

EMIL BACHMANN. [L. s.]

Witnesses:

W. HAUFF,
D. VAN SANTVOORD.