

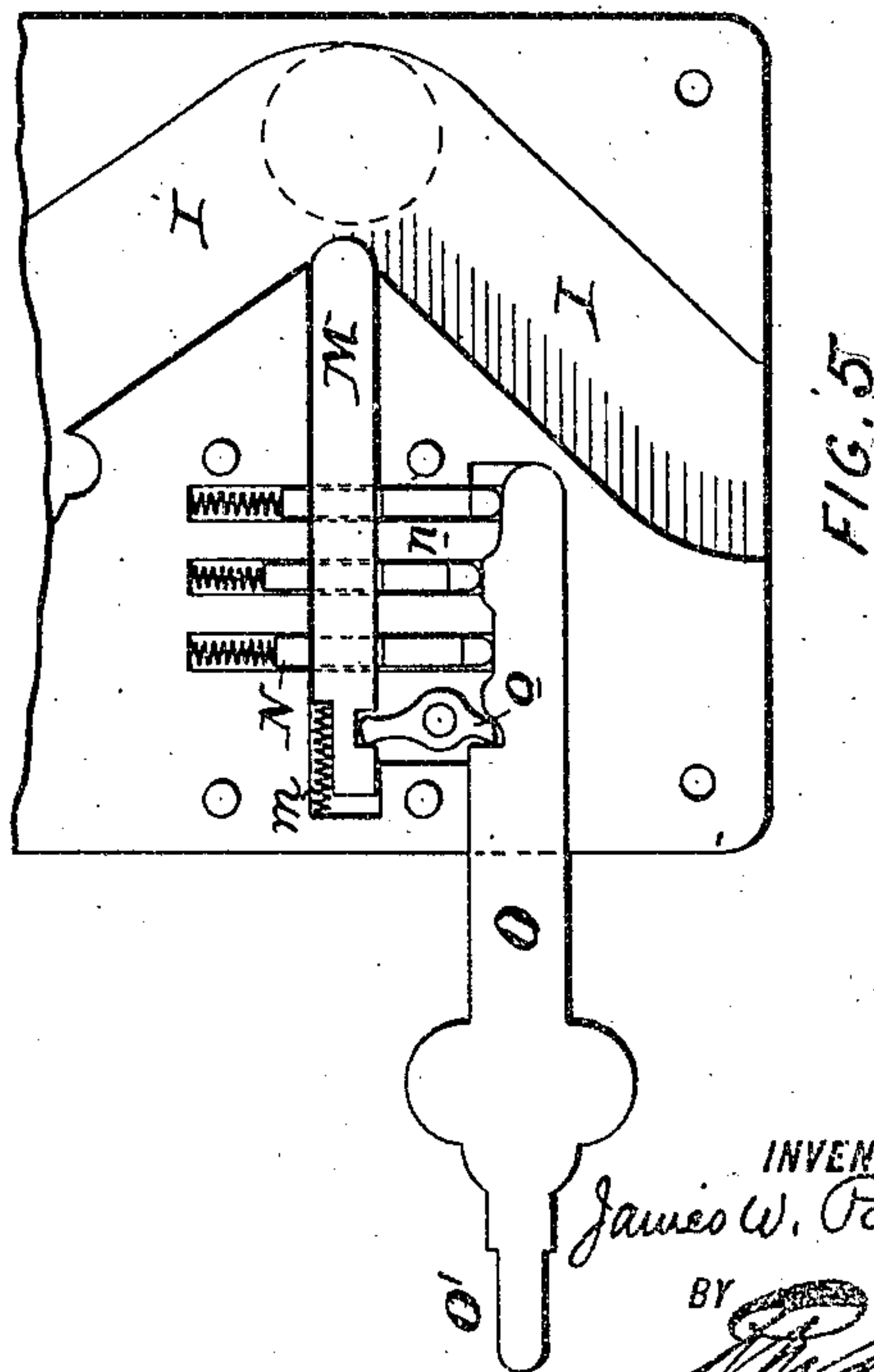
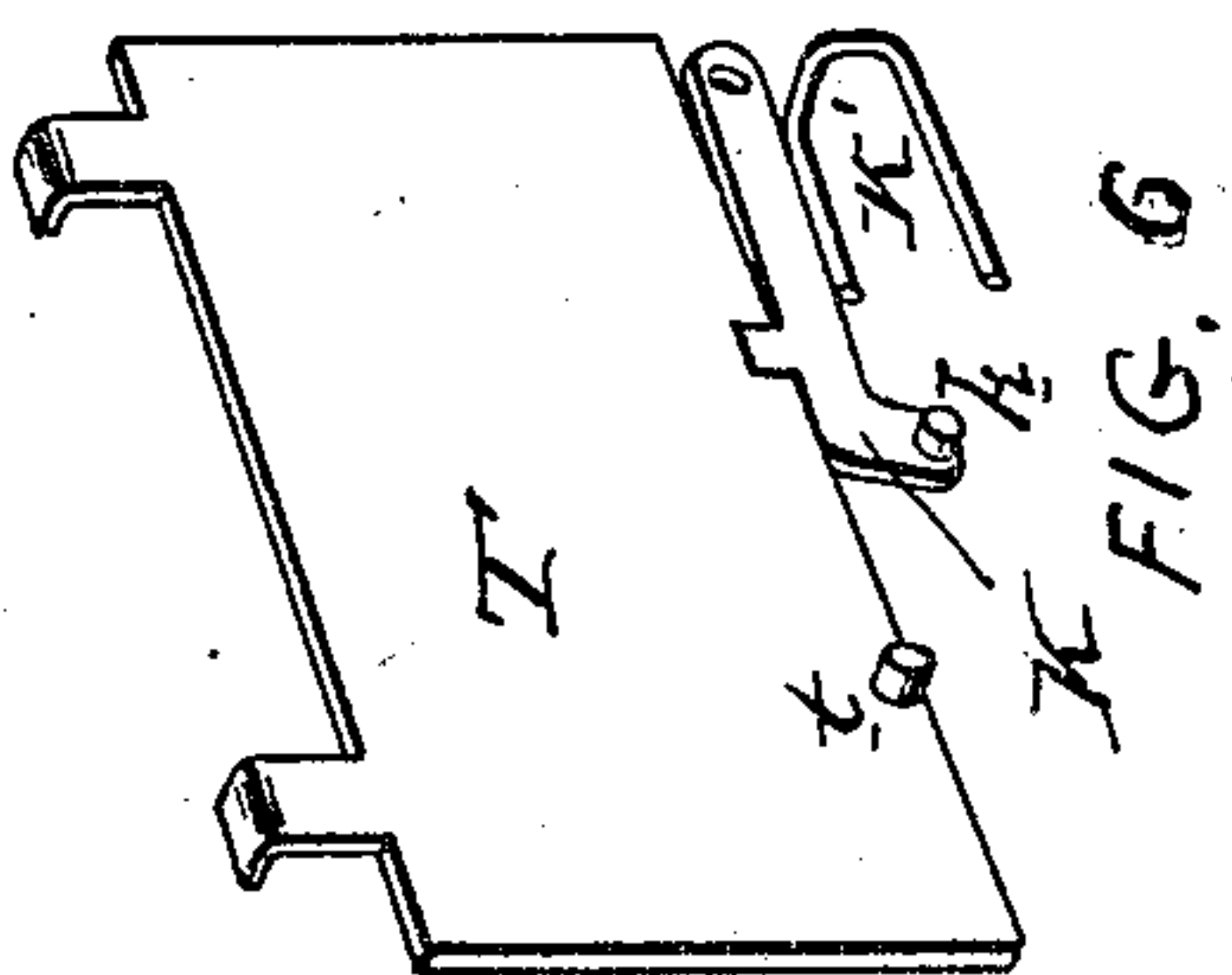
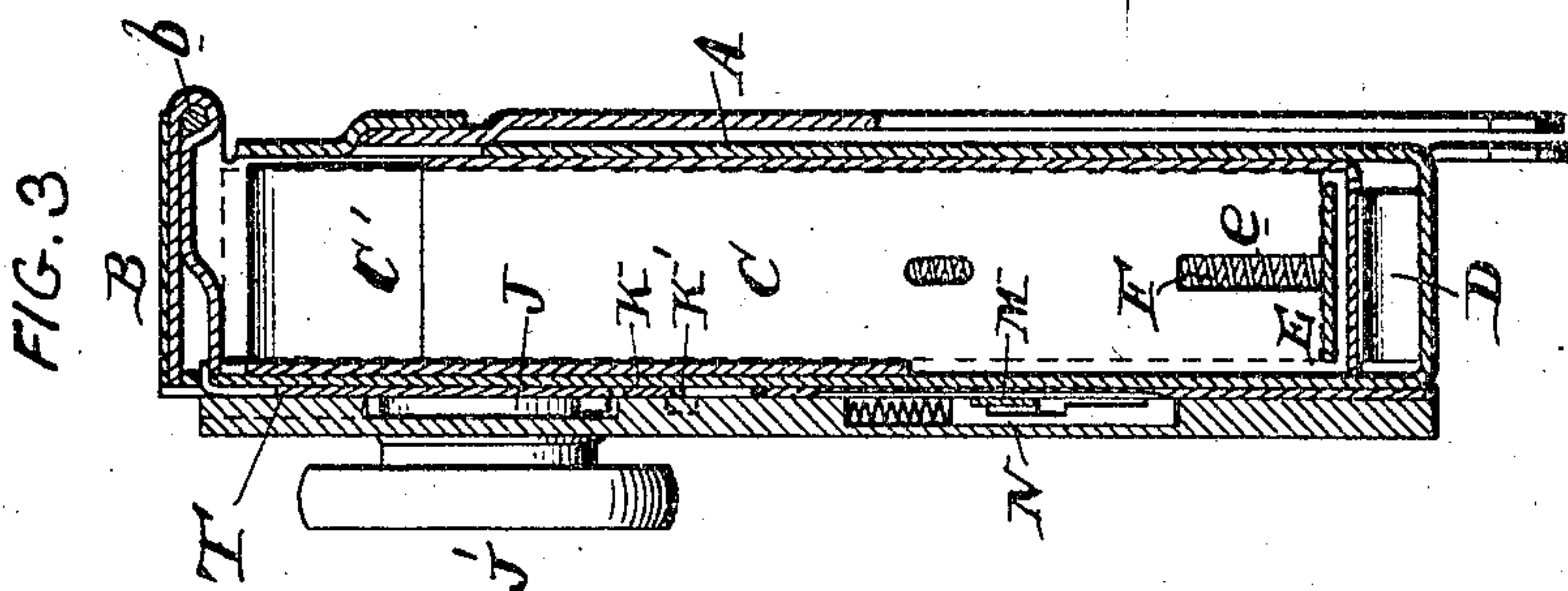
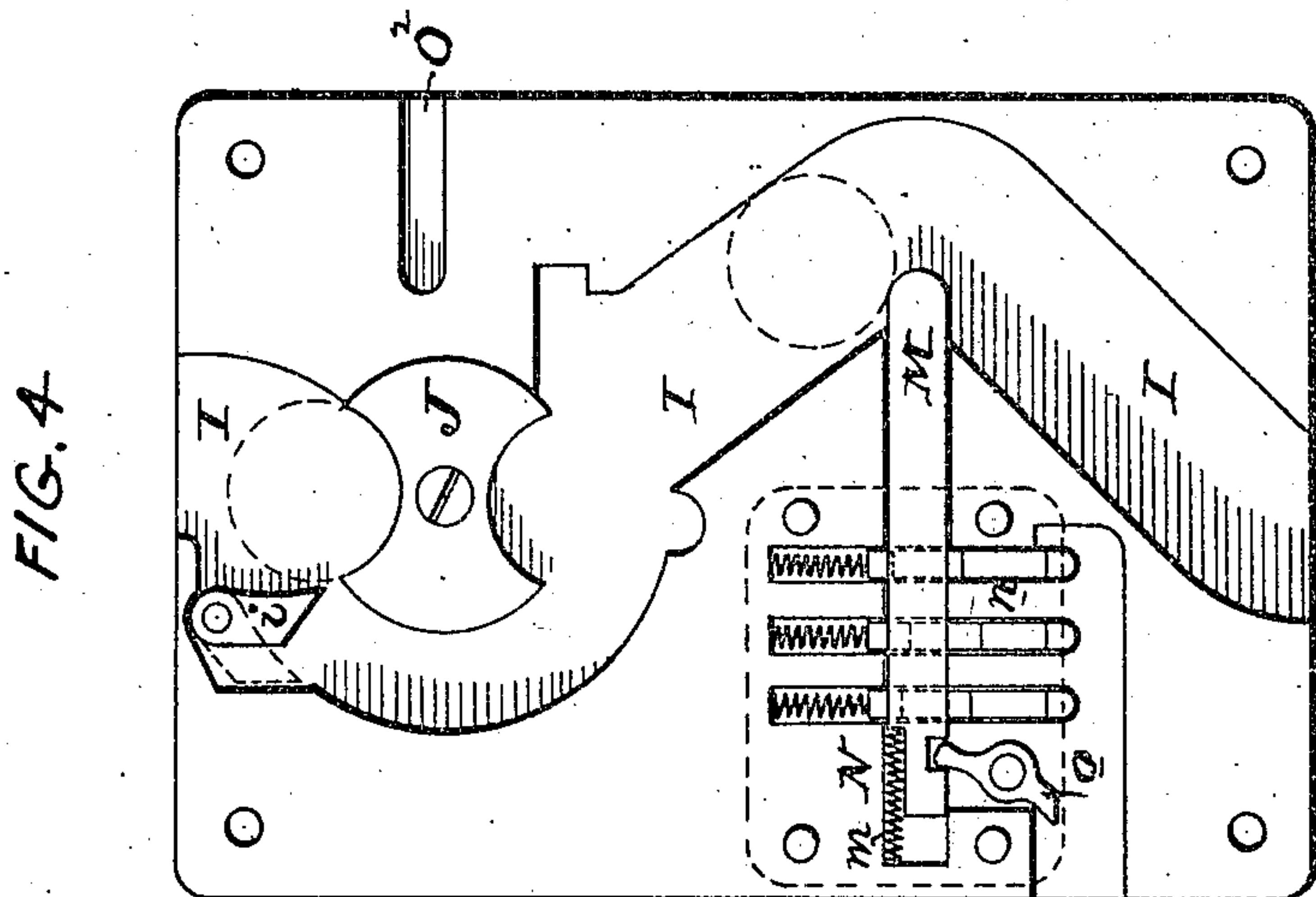
No. 837,337.

PATENTED DEC. 4, 1906.

J. W. PATTERSON.
VENDING MACHINE.

APPLICATION FILED DEC. 8, 1904.

2 SHEETS—SHEET 2.



WITNESSES:

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JAMES W. PATTERSON, OF NEW YORK, N. Y.

VENDING-MACHINE.

No. 837,837.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed December 8, 1904. Serial No. 235,994.

To all whom it may concern:

Be it known that I, JAMES W. PATTERSON, of the city and county of New York and State of New York, have invented an Improvement in Vending-Machines, of which the following is a specification.

My invention has reference to vending-machines; and it consists of certain improvements, which are fully set forth in the following specification and shown in the accompanying drawings, which form a part thereof.

My present invention is an improvement upon the structure of vending-machines forming subject-matter of my Letters Patent No. 796,010, dated August 1, 1905. In my said Letters Patent specified above the case is provided with a spring-actuated floor for raising the article, and said floor is furnished with side arms which forced up the lid when released by the coin-controlled lock; but no provision was made to lock the lid-raising means when elevated so as to prevent the lid being depressed or closed, except by the proper person to avoid the possibility of having the case locked without being first filled.

The object of my present improvement is to provide means to lock the lid in its open position when liberated by the coin-controlled lock.

In carrying out my invention I provide the case with a lid adapted to be locked by a coin-controlled lock and combined with a spring-actuated portion adapted to rise to force open the lid when liberated, and a locking device to lock the spring-actuated portion when raised, whereby the lid is locked in its open position as well as its closed position.

In the preferred form of my invention I usually make the spring-actuated part which raises the lid of such construction that it also acts to support and raise the article to some distance above the upper opening of the case to permit of its easy removal.

My invention also comprehends details of construction which, together with the features above pointed out, will be better understood by reference to the drawings, in which—

Figure 1 is a sectional elevation of my improved machine looking toward the front and lock. Fig. 2 is a similar sectional view, but looking toward the back. Fig. 3 is a transverse sectional elevation on line 3-3 of Fig. 1. Fig. 4 is a rear elevation of a portion of the coin-controlled locking device separated from the case. Fig. 5 is a similar view of the

lower portion of same with the key inserted for releasing the coin, and Fig. 6 is a perspective view of the locking-plate and locking-dog removed from the remaining portion of the lock. Figs. 1 and 3 show the box in the closed and locked condition.

A is the box or case and is shown as rectangular and provided with a lid B at the top, hinged at b to the rear of the said case.

C is a movable part, also made box shape and open at the top and fits down into the case A and adapted to be forced upward by a spring D when the lid is released. This part C has a movable floor-plate E, having lateral parts extending through side slots e in the part C and connected to springs F F to normally lift the said plate E when not held down by the article or package and lid B, against which the package presses. The upper side parts C' of the spring-actuated part C rise in front of the lid B when it rises and prevents it being closed down again, except under definite conditions.

When the part C rises, the spring-lock H carried by it snaps into a hole h in the case A and locks the said part C against being depressed, and consequently this mechanism also locks the lid in its open position. The side of the case A is provided with a key-aperture H' in alignment with the spring H, so that by the insertion of the key the lock can be released, the part C depressed, and the lid B closed.

When the lid is closed, as indicated in Figs. 1 and 3, it is locked in position by a sliding lock-plate T, which is pushed into locking position by the end O' of the key O, which is inserted in a groove O² in the body of the lock, Fig. 4. In the closed and locked position of the lid it holds both the part C, the floor-plate E, and the article or package (see dotted lines, Fig. 3) in depressed positions and parts both the springs D and F under tension.

The locking-plate T may be operated by any suitable coin-controlled lock, one form of which is shown. In this the coin L is guided through a coin-slot I, which receives the coin at the top and discharges it at the bottom. The coin is first received in a notched disk J, rotated by a hand-knob J', and thereby carried past a pawl i until it is in position to be forced between a lug t on the lock-plate T and a lug k on a locking-dog K to press down the locking-dog K against its spring K' to release the lock-plate T and then

move the said lock-plate T to release the lid. The coin then falls in the slot I upon the retainer M and is moved into retaining position by a spring N. This retainer M is locked in
 5 retaining position by the locking-bolts n, which may be shifted by the key O to unlock the retainer and permit it to be moved back to release the coin, Fig. 5, by the action of
 10 the pivoted arm o, connected at one end with the retainer and at the other end having a contact with the key.

The form of coin-controlled lock here shown is similar in general respects to that shown in my application, Serial No. 104,752, filed
 15 April 26, 1902, before referred to, but embodies some minor features of novelty.

The coin-controlled lock is arranged at the front of the case, and the lid B opens backward, which makes the structure more easily
 20 and conveniently operated.

While I prefer the construction shown as excellently adapted in practice to the purposes of my invention, the details may be modified without departing from the spirit of
 25 the invention.

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

1. In a vending-machine, the combination
 30 of a case to contain an article, a movable lid hinged to the case, a lock for unlocking the lid, a spring-actuated support normally held in a depressed position within the case by the lid and adapted to rise when the lid is released
 35 to raise the article and hold the lid in an open position, and a locking device for locking the spring-actuated support in its elevated position, whereby the lid is locked against being closed.

2. In a vending-machine, the combination
 40 of a case to contain an article and having a keyhole, a movable lid hinged to the case, a lock for unlocking the lid, a spring-actuated support normally held in a depressed position
 45 within the case by the lid and adapted to rise when the lid is released to raise the article and hold the lid in an open position, and a locking device for locking the spring-actuated support in its elevated position whereby
 50 the lid is locked against being closed said locking device being located in line with the keyhole whereby it can be unlocked by the insertion of a key through the keyhole.

3. In a vending-machine, the combination
 55 of a case to contain an article, a movable lid

hinged to the case, a lock for unlocking the lid, a spring-actuated support normally held in a depressed position within the case by the lid and adapted to rise when the lid is released
 60 to raise the article and hold the lid in an open position, a locking device for locking the spring-actuated support in its elevated position, whereby the lid is locked against being closed said locking device consisting of a
 65 spring-catch secured to and moving with the spring-actuated support, and a shoulder or obstruction on the case over which the end of the locking-spring snaps and from which it may be pushed by the insertion of a key.

4. In a vending-machine, the combination
 70 of a case adapted to contain the article, a movable lid, a lock for locking the lid, a spring-actuated part carried by the case and adapted to rise to obstruct the lid in closing, and a locking device for locking the spring-actuated
 75 part in its obstructing position so as to lock the lid in its open position.

5. In a vending-machine, the combination
 80 of a case adapted to contain the article and provided with a key-aperture, a movable lid, a lock for locking the lid, a spring-actuated part carried by the case and adapted to rise to obstruct the lid in closing, and a spring-lock in alignment with the key-aperture in
 85 the case for locking the spring-actuated part in its obstructing position so as to lock the lid in its open position said spring-lock in its locking position being arranged back of the key-aperture in the case.

6. In a vending-machine, the combination
 90 of a case to contain an article, a movable lid hinged to the case, a lock for unlocking the lid, a spring-actuated support normally held in a depressed position within the case by the lid and adapted to rise when the lid is re-
 95 leased to raise the article and hold the lid in an open position, a locking device for locking the spring-actuated support in its elevated position, whereby the lid is locked against being closed, and a spring-actuated floor car-
 100 ried by the spring-actuated support for pressing the article upward relatively to the spring-actuated support when the lid is raised.

In testimony of which invention I hereunto set my hand.

JAMES W. PATTERSON.

Witnesses:

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 HOWARD T. COLE.