

H. MARRIOTT.
COMBINED MATCH BOX AND CIGAR CUTTER.
APPLICATION FILED MAY 6, 1909.

945,792.

Patented Jan. 11, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

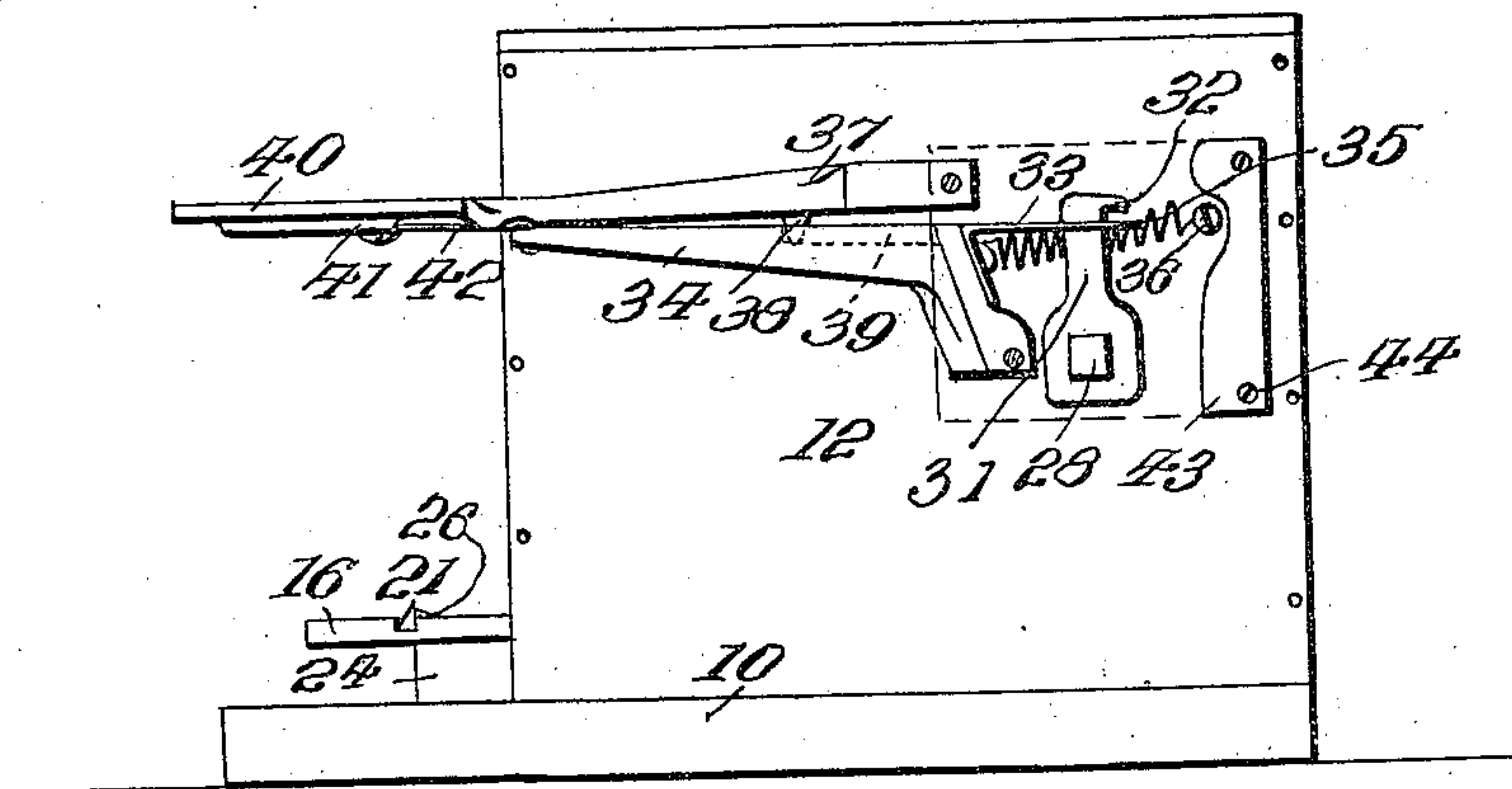


Fig. 2.

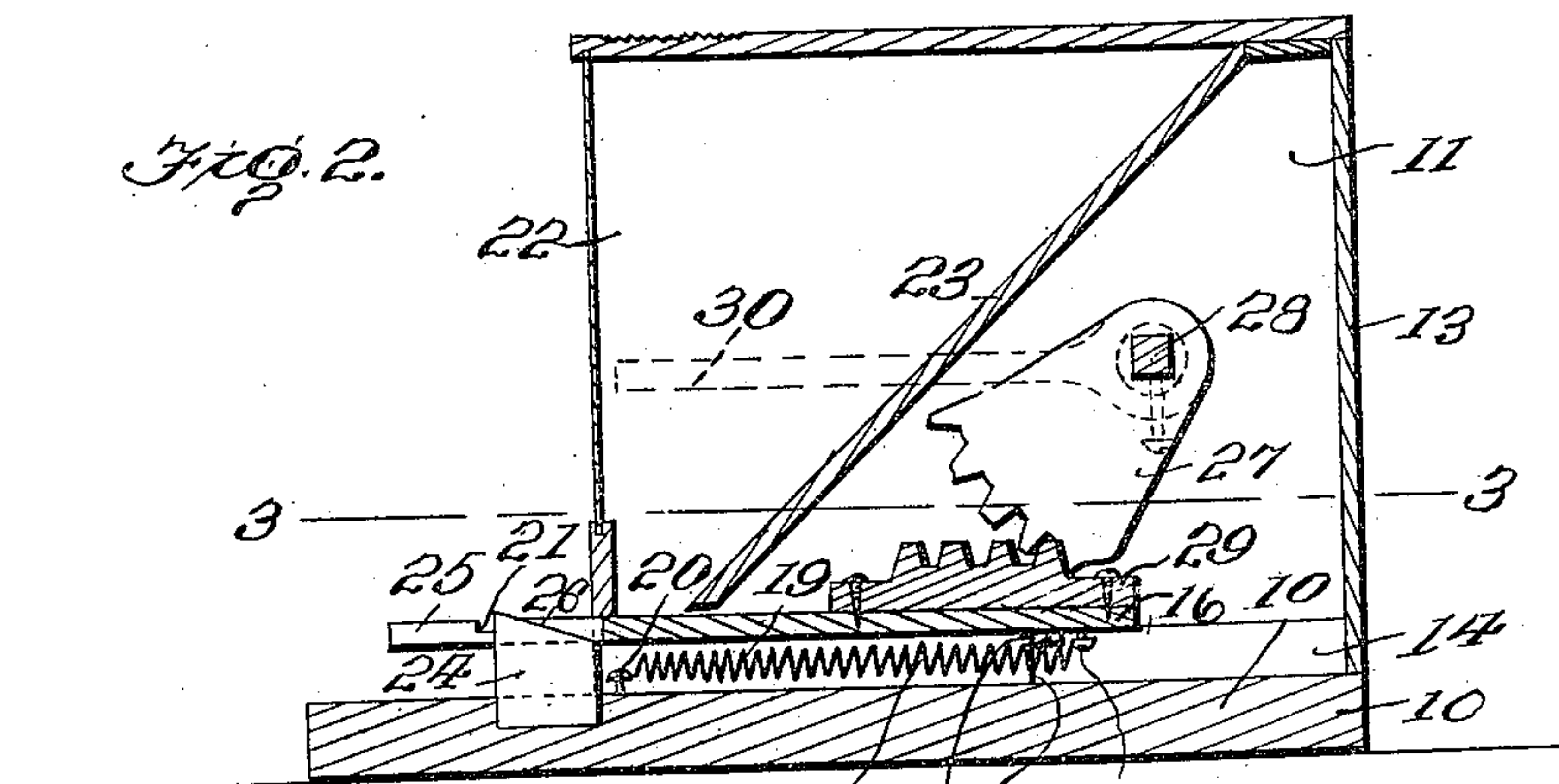
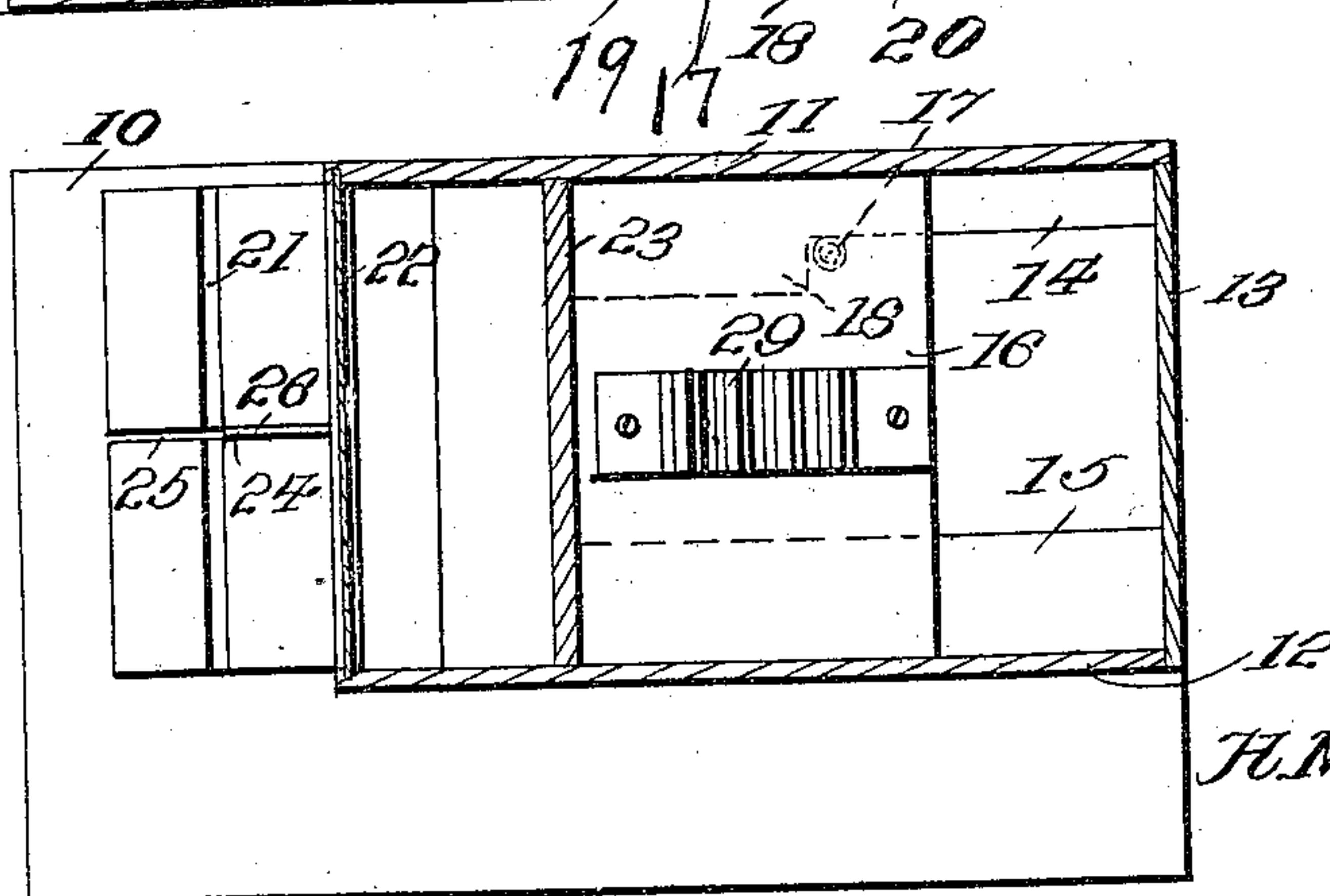


Fig. 3.



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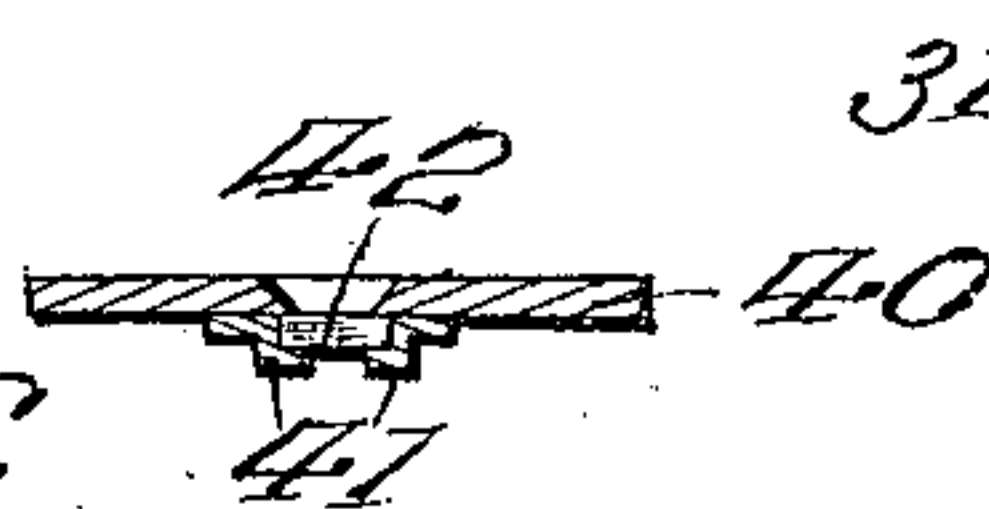
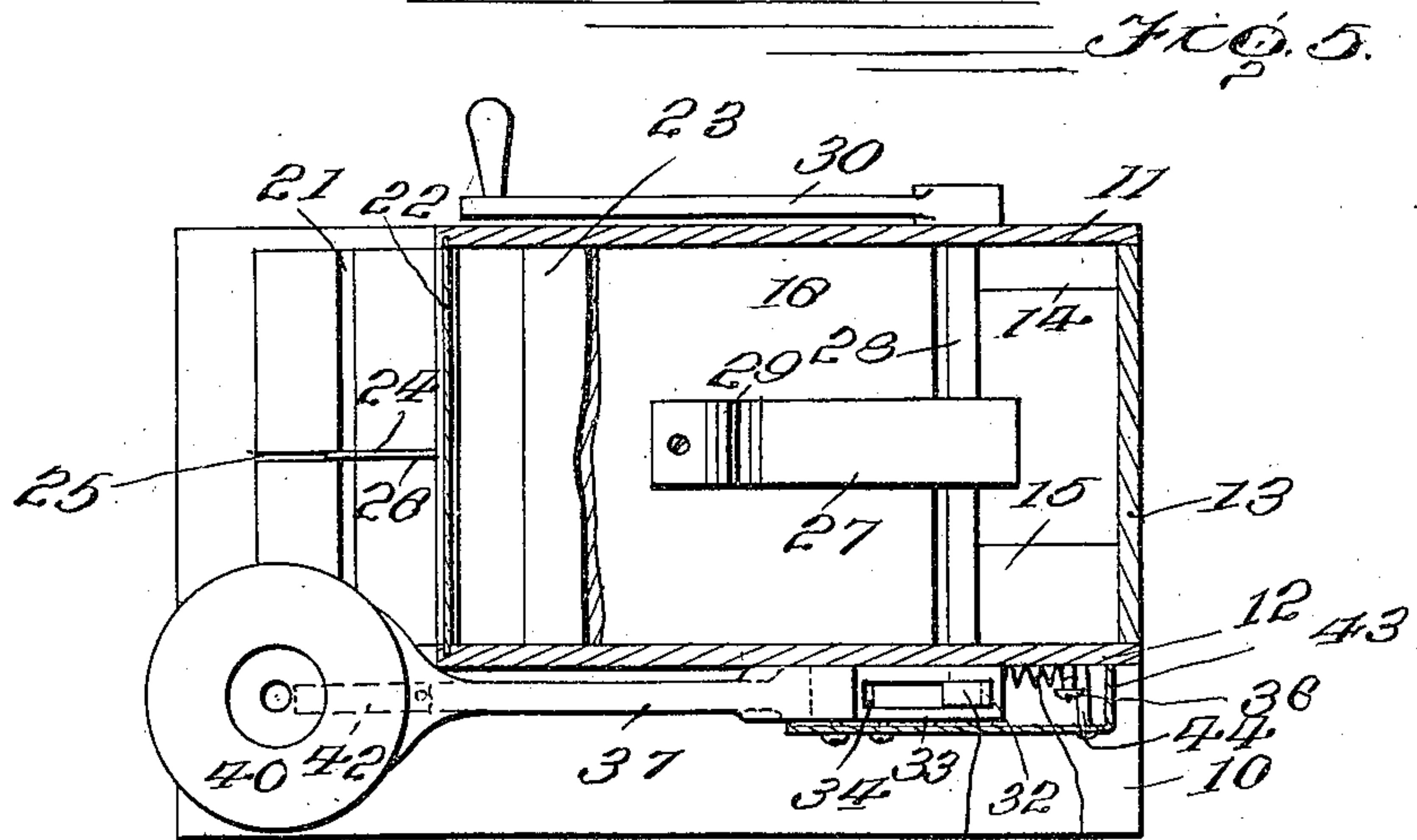
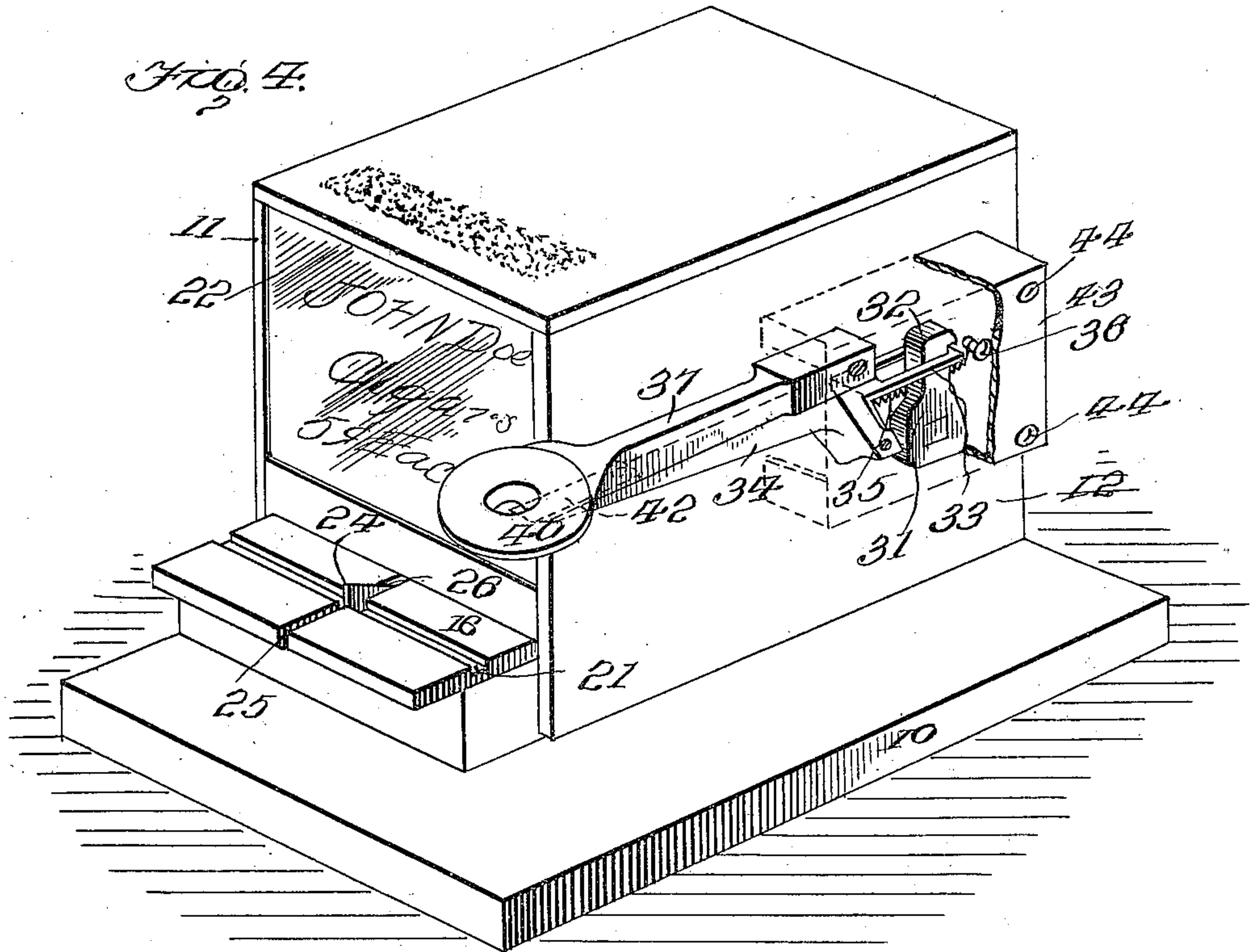
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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COMBINED MATCH-BOX AND CIGAR-CUTTER.

945,792.

Specification of Letters Patent.

Patented Jan. 11, 1910.

Application filed May 6, 1909. Serial No. 494,270.

To all whom it may concern:

Be it known that I, HAL MARRIOTT, citizen of the United States, residing at Newark, in the county of Licking and State of Ohio, have invented certain new and useful Improvements in Combined Match-Boxes and Cigar-Cutters, of which the following is a specification.

This invention relates to delivering mechanism, and refers particularly to a combined match delivering device and cigar cutter.

An object of this invention is to provide a mechanism of this character whereby the act of cutting the tip of a cigar will cause the delivery of a match, and the match delivering mechanism may be actuated independently of the cigar cutting mechanism.

The invention further provides a device which is so constructed as to positively feed the matches singly from the receptacle and at the same time to positively cut the tip of the cigar.

The invention still further contemplates the provision of a device of this character which is formed of but few operative parts which are so positioned in relative arrangement with one another that the same may be formed of strong and durable material to thereby produce a practical device of this nature.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings, in which;

Figure 1 is a side elevation of the complete device; Fig. 2 is a longitudinal vertical section through the same; and Fig. 3 is a longitudinal horizontal section of the line 3—3 of Fig. 2. Fig. 4 is a perspective view of the complete machine. Fig. 5 is a top plan view of the same, partly shown in section, and Fig. 6 is a detailed sectional view of the disk and attached blade.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawing, the numeral 10 designates a base formed of metal, although wood or any other suitable material may be employed, and the numerals 11 and 12 the opposite sides of the device while 13 designates a back, the sides and back being formed preferably of the same substance as the base 10. Upon the base 10 within the sides 11

and 12 are positioned guides 14 and 15 which are extended longitudinally of the base 10 in parallel relation to one another, and upon which is slidably disposed an ejector 16. The ejector 16 comprises a flattened plate of metal or the like which is slightly elongated and extending the entire width of the base 10 included between the sides 11 and 12. The ejector 16 is provided at its inner end with a depending stop 17 which engages against a shoulder 18 formed inwardly upon the guide 14 to limit the outward movement of the ejector 16. For the purpose of normally retaining the ejector 16 in the outward position, the ejector 16 is provided with a helical spring 19 which is secured at its opposite extremities respectively to the under side of the ejector 16, at the inner end thereof, and to a pin 20 carried by the base 10. The sides 11 and 12 are terminated a short distance from the forward end of the base 10 to permit of the extension of about one-third of the ejector 16 beyond the forward edges thereof so as to normally retain a transverse slot 21 outwardly of the front wall 22 of the receptacle, the front wall 22 being positioned between the forward edges of the sides 11 and 12. The front wall 22 is preferably formed of a transparent material, or at least the upper portion thereof, as is disclosed in the drawings, so that the operator may readily observe whether or not the receptacle contains a quantity of matches. A diagonally disposed bottom 23 is positioned within the receptacle between the sides 11 and 12 and extends from the upper rear edges of the sides 11 and 12 to a point intermediately over the ejector 16 adjacent the forward end of the receptacle. Means is employed in connection with the ejector 16 for raising the matches outward of the transverse slot 21 when the same is extended from the front wall 22 and such means comprises an abutment 24 which is outwardly projected from an intermediate point adjacent the forward end of the base 10, the same being formed of a strip of metal, which passes through a slot 25 longitudinally formed centrally and at the outer end of the ejector 16 which is provided with a beveled edge 26 for engagement with the matches which are carried in the slot 21 in order to raise the same thereout and to dispose the match upon the upper face of the ejector 16 to admit of the grasping of the same by the operator.

For the purpose of actuating the ejector 16 a segment 27 is provided which is mounted upon a transverse shaft 28 for engagement with a rack 29 formed upon the upper face of the ejector 16 at the inner end thereof. The shaft 28 is journaled at its opposite ends through the sides 11 and 12 and is provided upon one extremity with a crank 30 by means of which the operator rotates the shaft 28 in order to retract the ejector 16 under the tension of the spring 19. The end of the shaft carrying the crank 30 is extended outwardly of the wall 11 so as to dispose the crank 30 against the outer face of the wall 11 to enable the easy depression of the same by the operator.

It will be noted that the crank 30 extends forwardly to a point adjacent the outer end of the ejector 16. Upon the opposite extremity of the shaft 28 a pawl 31 is rigidly disposed which is normally arranged in an upward position and which is provided with a lug or head 32 for engagement through an elongated slot formed in a plate 33, which is carried upon a cutter-arm 34 pivotally mounted upon the side 12. As is fully illustrated in the drawings the cutter arm 34 is of substantially L-formation having the short arm thereof arranged obliquely to the long arm, and having the short arm extended downwardly and rearwardly against the outer face of the side 12, the lower extremity of the short arm being the pivotal point of the cutter arm 34. The plate 33 is secured to the short arm of the cutter arm 34 and is so positioned with respect to the same that the pawl 31 engages normally against the rear end of the plate 33 to cause the rotation of the pawl 31 upon the slightest depression of the outer end of the cutter-arm 34. The arm 34 is retained in an upward position normally by the employment of a spring 35 which is of helical formation and which is engaged at its opposite extremities respectively to the arm 34 and to a screw 36 disposed upon the side 12. An upper arm 37 is pivotally disposed at its rear extremity above the arm 34 and is normally retained in an upward position by resting upon the arm 34, the arms 34 and 37 being retained in a substantially parallel position through the medium of a lug 38 depended from the arm 37 which rides within a slot 39 formed in the upper face of the lever 34. The arm 37 is provided upon its outer end with an apertured disk 40 through which the cigar is engaged, and which is provided with inwardly turned flanges 41 to guide a resilient cutter blade 42 carried upon the outer extremity of the cutter arm 34. The cutter blade 42 is composed of a strip of flexible metal which is edged at its outer end and is of such a length as to normally rest with the cutting edge inwardly of and adjacent to the aperture formed through the

disk 40. The strip is slidably engaged against the under side of the disk 40 by the flanges 41.

The pawl 31 and the adjacent mechanism are protected by means of a suitable housing 43 which is positioned thereabout against the side 12 and retained in such position by the employment of set screws 44 or the like.

The operation of the device is as follows; When it is desired to withdraw a match from the receptacle without operating the cigar tip cutting mechanism the crank 30 is depressed to partially rotate the shaft 28 in a forward direction, thereby swinging the segment 27 to retract the ejector 16 through the medium of the rack 29, when in this position a match will fall from the inclined bottom 23 into the slot 21 of the ejector 16 and will be carried outwardly therewith beneath the front wall 22 upon the release of the crank 30 under the action of the spring 19. As the ejector 16 moves outwardly the match will engage against the inclined edge 26 of the abutment 24 and will be raised out of the slot 21 thereby and deposited upon the upper face of the ejector 16 when the operator may readily grasp the same. During this operation the pawl 31 is moved forwardly within the slot formed in the plate 33 and does not disturb the arms 34 and 37 by reason of the elongated formation of the slot.

Should it be desired to cut the tip from a cigar and obtain simultaneously, a match from the receptacle, the end of the cigar is positioned upon the disk 40 and depressed, when the arm 37 will engage against the arm 34 and the two will swing downwardly in a substantially parallel position to cause the cutter blade 42 to slide between the flanges 41, by reason of the eccentric mounting of the arms, and to sever the tip from the cigar. At the same time the plate 33 is drawn forwardly and caused to engage with the pawl 31 to rotate the shaft 28 and to thereby retract the ejector 16 through the medium of the segment 27 and rack 29. As the plate 33 is rigidly secured to the arm 34 the rear end of the plate 33 is raised about the pawl 31, and in order to prevent the binding of the arm 34, the pawl 31 is elongated to extend above the plate 33 a slight distance to dispose the head 32 upwardly of the plate 33. This construction admits of the free sliding movement of the plate 33 about the pawl 31 until the full downward stroke of the arms 34 and 37 is had when the lug or head 32 strikes the plate. Upon the release of the cigar from the disk 40 the spring 35 returns the arms 34 and 37 to their normal horizontal position, the lug 38 engaging against the arm 34 within the slot 39 to arrest the motion of the levers 34 and 37, when the pawl 31 will be released and the spring 19 will slide the ejector 16 outwardly to its

normal position carrying thereon a match from the receptacle.

Having thus described the invention, what I claim as new is:

5 1. A device as specified comprising a base, sides upwardly extended from said base, a back carried by said base, a front wall dis-
posed on said base, a diagonal bottom posi-
10 tioned between said sides, an ejector mounted above said base beneath said bottom, a shaft transversely disposed through said sides and connected to said ejector to retract the same, a spring carried by said base and connected to said ejector to hold the same in
15 a forward position, a cutter arm pivotally mounted upon one of the sides outwardly thereof, an upper arm pivotally mounted upon said side above said cutter arm, a lug carried by said upper arm for engagement
20 with said cutter arm to limit the downward movement of said arms, an apertured disk carried by said upper arm, a cutter blade carried by said cutter arm and slidably engaged beneath said disk, a spring car-
25 ried by said side and engaged with said cutter arm for normally retaining the same in an upward position, an apertured plate rearwardly extended from an intermediate portion of said cutter arm, and a pawl car-
30 ried upon the end of said shaft and engaged through said plate for rotating said shaft upon the depression of said arms.

2. A device as specified comprising a base, a match delivering mechanism mounted on
35 said base, a pair of arms pivoted on one side of said mechanism, a disk carried upon the upper of said arms, a cutter mounted upon the lower of said arms for sliding engage-
40 ment with said disk, a slotted plate rearwardly extended from the lower of said arms, a pawl engaged through said plate and adapted to be moved thereby upon the depression of said arm, a spring carried by said mechanism and connected to said arm
45 to normally raise the same, said arm having a slot longitudinally formed in the upper face thereof, a lug projected from the upper arm for engagement in the slot to limit the movement of said arms, and a shaft con-
50 nected to said delivering mechanism engaged through said pawl for the purpose of rotating said shaft upon the depression of said arms.

3. A device as specified including a base,
55 a receptacle mounted on said base, having side and end walls, a shaft transversely disposed through the receptacle, an ejector mounted in said receptacle and connected to said shaft for delivering matches there-
60 from, a pawl rigidly mounted upon the outer end of said shaft, a pair of arms eccentrically pivoted upon one of the sides of the receptacle adjacent said pawl, a plate carried by one of said arms having an elon-

gated slot formed therethrough to engage
65 about the said pawl, and a cutting mechanism carried upon the outer ends of said arms, said arms adapted to rotate said shaft upon the depression thereof, to actuate said
70 ejector.

4. A device as specified including a base, sides upwardly extended from said base in spaced relation, end walls located between said sides, an ejector located between said
75 sides upwardly of said base, a shaft transversely located through said sides, and connected to said ejector, a cigar cutting mechanism mounted against the outer face of one of said sides, and a loose connection between said cigar cutting mechanism and said shaft
80 for admitting of the independent operation of said shaft from the cutting mechanism.

5. A device as specified including a match delivering mechanism, a shaft connected to said mechanism, a pair of arms mounted piv-
85 otally adjacent said mechanism, a slotted plate carried by one of said arms, a pawl located upon the end of said shaft and engaged loosely through said plate, an aper-
90 tured disk located upon the end of one of said arms, a cutter slidably disposed against the under face of said disk and carried by the other of said arms, and a spring mounted adjacent said mechanism and connected to one of said arms for retaining the same nor-
95 mally in a horizontal position.

6. A device as specified including a match delivering mechanism, a side carried by said mechanism for operating the same, a pair of
100 arms eccentrically pivoted upon the outer face of said side in super-imposed relation, a cutting mechanism located upon the outer ends of said arms, to be actuated by the sliding movement of the arms, and a loose con-
105 nection carried by the lower of said arms for actuating said match delivering mechanism.

7. A device as specified including a base, a housing mounted on said base, an ejector disposed in said housing, a pair of arms eccentrically pivoted upon the side of said
110 housing, and in concentric relation, said arms being arranged in sliding relation to one another, an apertured disk carried upon the outer end of the upper of said arms, a cutter carried by the lower of said arms and
115 engaged against the under face of said disk, a stop carried by the upper of said arms for engagement with the lower of said arms to limit the upward movement of both of said arms, and a loose connection between said
120 arms and said ejector.

In testimony whereof I affix my signature in presence of two witnesses.

HAL MARRIOTT. [L. s.]

Witnesses:

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C. G. CIEBEL.