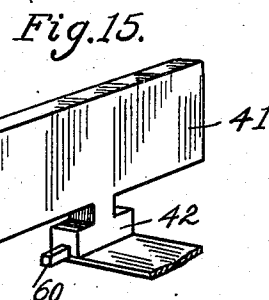
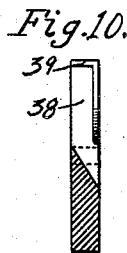
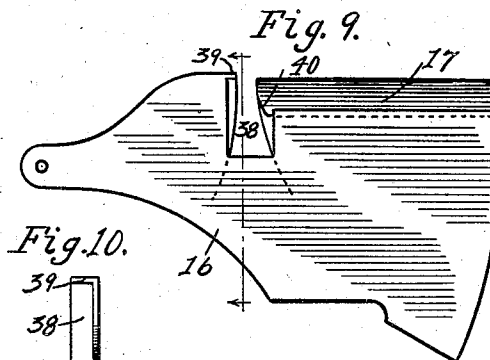
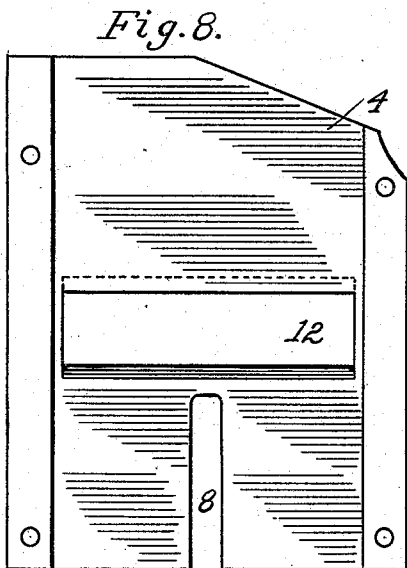
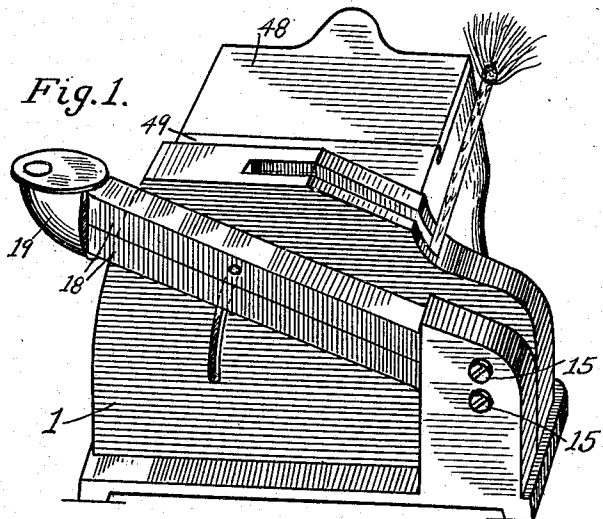


J. PIGNOCCO.
 COMBINED CIGAR CUTTER AND MATCH VENDING MACHINE.
 APPLICATION FILED JUNE 1, 1909.

937,092.

Patented Oct. 19, 1909.
 4 SHEETS—SHEET 1.



Witnesses,
 E. E. Wessels.
 A. A. Olton.

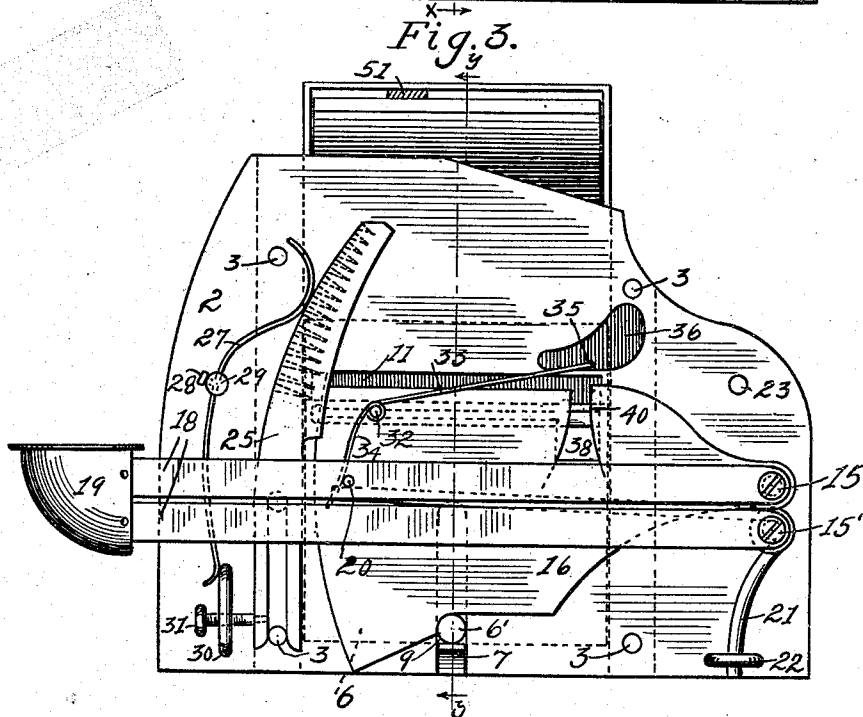
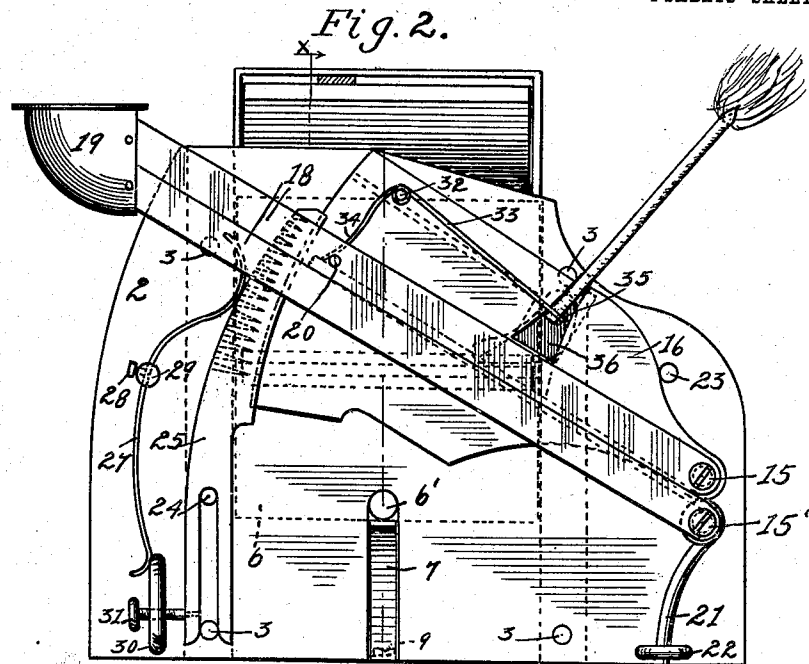
Inventor,
 John Pignocco
 By Joshua R. Potts
 his Attorney

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4 SHEETS—SHEET 2.



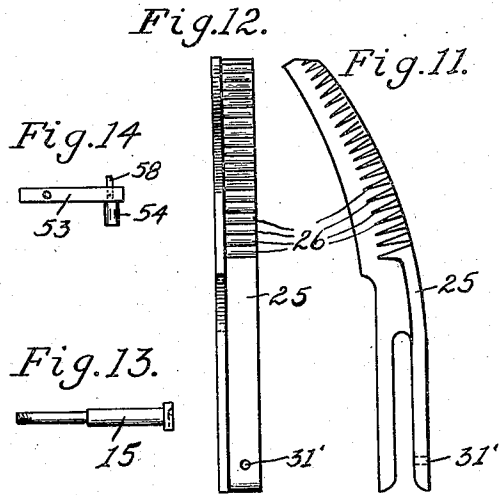
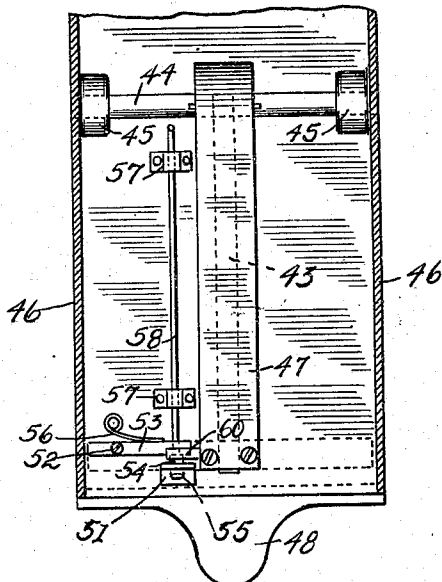
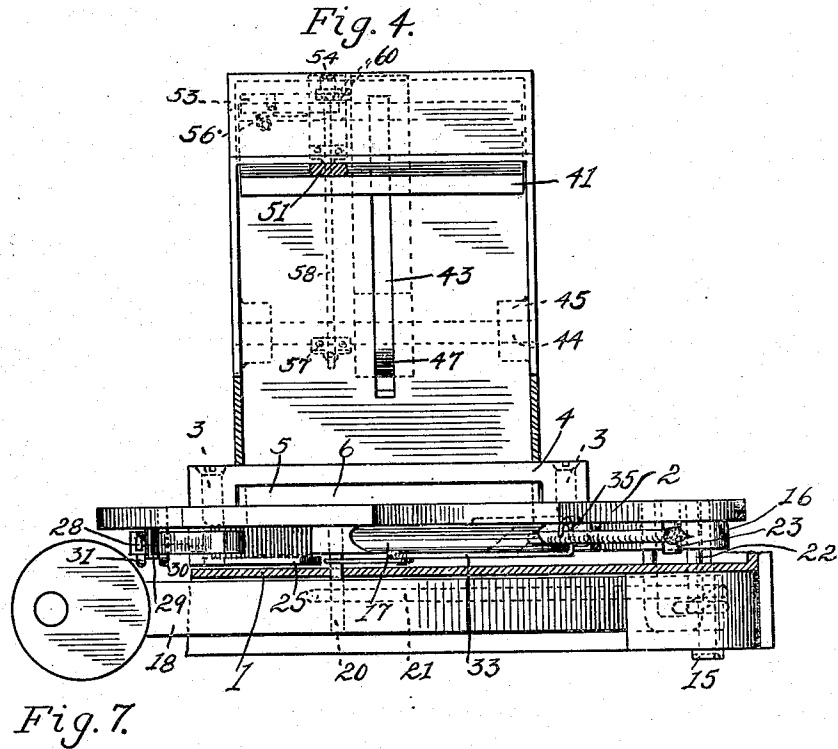
Witnesses,
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 4 SHEETS—SHEET 3.



Witnesses;
 C. E. Wessels.
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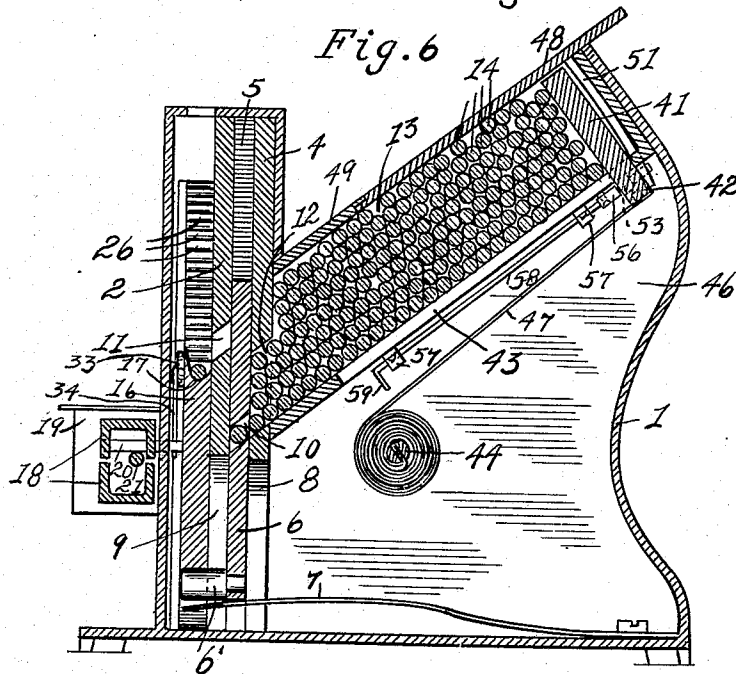
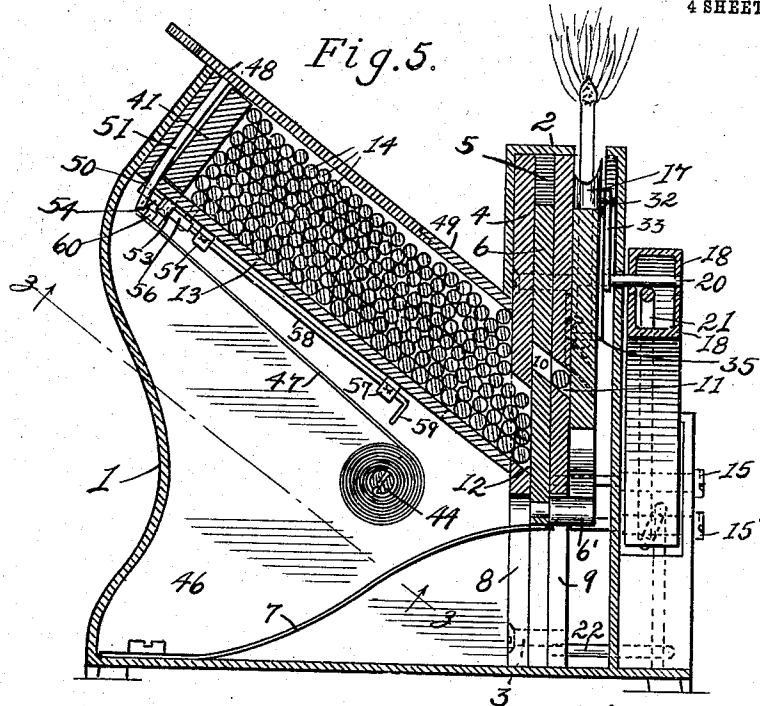
Inventor;
 John Pignocco,
 By Joshua R. H. Potts
 his Attorney.

J. PIGNOCCO.
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937,092.

Patented Oct. 19, 1909.

4 SHEETS—SHEET 4.



Witnesses;
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UNITED STATES PATENT OFFICE.

JOHN PIGNOCCO, OF LA SALLE, ILLINOIS.

COMBINED CIGAR-CUTTER AND MATCH-VENDING MACHINE.

937,092.

Specification of Letters Patent.

Patented Oct. 19, 1909.

Application filed June 1, 1909. Serial No. 499,355.

To all whom it may concern:

Be it known that I, JOHN PIGNOCCO, a citizen of the United States, and a resident of the city of La Salle, county of LaSalle, and State of Illinois, have invented certain new and useful Improvements in Combined Cigar-Cutters and Match-Vending Machines, of which the following is a specification.

My invention relates to combined cigar cutting and match vending machines, and more specifically to that class thereof in which the matches are vended in an igniting condition.

The object of my invention is to provide a device of the character mentioned which will be entirely automatic in its operation and strong and durable in its construction.

A further object is to provide a device of such character which will be of the highest possible efficiency and of neat and finished appearance.

Other objects will appear hereinafter.

With these objects in view my invention consists generally in a casing in which is arranged a match magazine or container.

My invention further consists in a rockingly mounted cigar cutter the depression of which permits of the escapement to a carrier plate of a single match from the magazine, and the release thereof of the actuation of means adapted to cause the ignition of the match and the discharge of substantially the entire length thereof from the casing in such a position as to be convenient for the seizure thereof by the operator.

My invention further consists in certain details of construction and arrangement of parts all as will be hereinafter fully described and particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a perspective view of the preferred form of my device, Fig. 2 is a front elevation thereof, the mechanism casing being removed and the match magazine cover broken away, illustrating the cigar cutter in normal position, Fig. 3 is a similar elevation showing the cigar cutter in depressed position, Fig. 4 is a top plan view of the construction shown in Fig. 2, illustrating in addition a portion of the front wall of the casing in section, Fig. 5 is a vertical transverse section taken on substantially the line

xx of Fig. 2, Fig. 6 is a similar section taken on substantially the line *yy* of Fig. 3, Fig. 7 is a detail bottom plan view of the match magazine taken on the line *zz* of Fig. 5, Fig. 8 is a detail front elevation of a portion of the match vending mechanism, Fig. 9 is a detail rear elevation of the match conveyer plate, Fig. 10 is a section thereof taken on the line *vv* of Fig. 9, Figs. 11 and 12 are rear and side elevations respectively of the match igniter embodied in my invention, Fig. 13 is a detail side elevation of the pivotal pin upon which is mounted the cigar cutter supporting arm and the match conveyer plate, Fig. 14 is a plan view of a portion of the mechanism shown in Fig. 7 for locking the magazine cover in closed position, and Fig. 15 is a detail perspective view of the weight mounted in the magazine to effect the forcing of the matches contained therein toward the discharge opening thereof.

Referring now to the drawings 1 indicates a suitable casing or housing in which is inclosed the operating mechanism of my device. Comprised in such mechanism is a vertically disposed front plate 2 upon the rearward surface of which is arranged, the same being secured thereto preferably by screws 3, a channeled member 4 forming with the plate 2 a vertically extending rectangular passage 5. Mounted for vertical reciprocation in the passage 5 is a carrier plate 6, the same being normally held in the upper end portion of said passage by a leaf spring 7 secured to the base of the casing 1, the free end portion thereof extending through slots 8 and 9 provided in the lower edge portions of the members 4 and 2 respectively and resting in engagement with the lower edge of said plate. An obliquely extending horizontally disposed slot 10 of a length such as to permit of the passage of a match therethrough, provided in the plate 6 is adapted to register with a similar slot 11 provided in the plate 2 when said plate 6 is at the upper extremity of its movement, as clearly shown in Fig. 5. Provided in the member 4 is a similar slot 12, the latter being however of a greater width than the slots 10 and 11, the same being so positioned in the member 4 that when the plate 6 is at the lower extremity of its movement, the slot 11 provided therein will be in registering position therewith, as clearly shown in Fig. 6. Rearwardly extending

from the member 4, the forward open extremity thereof communicating with the slot 12, is an inclined magazine or match container 13, 14 indicating the matches contained therein.

In the construction thus far described, upon positioning the plate 6 at the lower extremity of its movement a single match will be deposited in the slot 10, as shown in Fig. 6. Such match is carried or conveyed by said plate, when the latter is elevated, and deposited in the slot 10 upon said plate reaching a position at the upper extremity of its movement, such upward movement of said plate being limited by a pin 6' projecting from the plate 6 and extending through the slot 9 of the plate 2, as clearly shown in Fig. 5. Rockingly mounted upon a pin 15 secured in and projecting from the plate 2 is a carrier or conveyer plate 16 the upper edge 17 of which is grooved or channeled in form. Said edge is so disposed that when said plate is in its lowermost position, the same will be positioned immediately below the slot 11. Hence a match fed from the plate 6 into the slot 11, as just described, will be deposited upon the grooved edge 17, as clearly shown in Fig. 6. The pin 6' extends through the plate 2 to such an extent as to traverse the path of movement of the conveyer plate 16, hence upon the latter being rocked downwardly the member 6 will be carried therewith.

Mounted upon the outer extremities of parallel arms 18 rockingly mounted upon the pin 15 and a similar pin 15' secured in and projecting from the plate 2, is a cigar cutter 19 which may be of any ordinary or preferred form, the same being however so designed that actuation thereof is effected by depression or downward rocking of the arms 18. A pin 20 extending through one of the arms 18 and the plate 16 effects the simultaneous movement of said arms and plate. A spring member 21 coiled upon the pin 15', the respective extremities thereof resting in engagement with an eye 22 formed upon the plate 2 and the pin 20, normally holds the arms 18 and hence the plate 16 in a position at the upper extremity of their movement, such upward movement being limited by a stop 23 projecting from the plate 2 traversing the path of said plate.

Positioned adjacent the extremity of the free end portion of the plate 16, the same being pivotally mounted upon a pin 24 secured in and projecting from the plate 2, is a member 25 adapted to serve in the capacity of a match igniter. The upper end portion of the member 25 is arcual in form, the innermost portion thereof being formed with a series of knife edged blades 26 against which, when the plate 16 is rocked upwardly, is forced the head of a match carried by the latter. A leaf spring 27 secured by a set

screw 28 in a bifurcated post 29 formed upon the plate 2, the respective end portions of said spring resting in engagement with a lug 30 formed upon the plate 2 and the upper end portion of the member 25, is adapted to hold the latter in yielding contact with the head of the match carried upon the plate 16, as just stated. A set screw 31 threaded in the lug 30, the inner extremity thereof engaging a perforation 31' provided in the lower end portion of the member 25, serves as a means of adjusting the latter with respect to the adjacency of the upper end portion thereof with the outer extremity of the plate 16.

Coiled upon an integral pin 32 projecting from the plate 16 is a spring member 33 the extremity 34 of which engages the pin 20 and the extremity 35 thereof, which is hooked in form, as clearly shown in Fig. 4, engaging an irregular slot 37 formed in the front surface of the member 2. Formed in the edge 17 of the plate 16 is a recess 38 arranged therein in registering position with the right-hand extremity of the slot 11. The upper end portion of the spring 33 is of such a length that, upon the upward movement of the plate 16, the hooked extremity 35 thereof will enter said recess and hence engage the end portion of the match carried upon the plate 16. The side of the recess 38 adjacent to the extremity of the match is provided at its upper extremity with a projecting portion or flange 39 against which, when the head of the match is contacting the igniter blades 26, the opposite end portion of the match is adapted to rest, such portion obviously serving as a means of maintaining the match in rigid position during such operation. By the provision of the spring 33, upon the match head leaving or passing beyond the upper extremity of the member 25, during the operation of the device, the opposite end portion thereof will be depressed by the extremity 35 thereof, and clamped between the same and the surface 40 of the recess 38, the match in such event being disposed in an extended position, as shown in Figs. 1 and 2.

In order to effect the forcing of the matches to the lower or discharge extremity of the magazine 13 as the same are gradually removed or discharged therefrom, I provide a transversely disposed rectangular member 41 slidably mounted in said magazine. The lower edge of said member is provided with a projection 42 which extends through a longitudinally extending slot 43 provided in the bottom of said magazine. Coiled around a shaft 44 the extremities of which are fixed in bosses 45 formed upon the adjacent surfaces of vertically disposed supporting walls of the magazine 13, is a clock spring 47 the free end portion of which is secured to the under edge of the projection 42. By such

provision the spring because of its exerting a constant pull upon the member 41, forces the latter against the matches contained in the magazine crowding the same toward the discharge opening therein, thereby preventing tangling or confusion of the matches in the magazine and hence facilitating the correct operation of the device.

48 is a removable cover for the magazine. The forward reduced end portion of said cover engages the rearward flanged edge of a stationary cover portion 49, as clearly shown in Figs. 5 and 6. Depending from the rearward end portion of the under surface of the cover 48, the lower end portion thereof projecting through a slot 50 provided in the bottom of said magazine is a finger 51. Pivotaly secured as at 52 upon said magazine bottom is an angular lever 53 the end portion 54 of which is adapted to engage a perforation 55 provided for the reception thereof in the lower exteriorly projecting end portion of the finger 51, said member 53 being adapted when in engagement with said perforation to lock the cover 48 in closing position. A leaf spring 56 is adapted to normally hold said lever in locking position. Having its rearward extremity secured to said lever, the same forwardly extending therefrom through guide loops 57 secured to the magazine bottom, is an operating stem 58. The rearward extremity 59 of said stem is hooked in form, as clearly shown in Figs. 5 and 6. Laterally projecting from the projection 42 is an arm 60. Said projection is adapted when the member 41 is in its lowermost position in the magazine to contact the stem extremity 59. By such provision the magazine cover will remain locked in the closing position until the magazine has been substantially exhausted whereupon the stem 58 will be withdrawn thereby causing the rocking of the lever 53 to unlocking position and hence permitting of the removal of the cover 48 for refilling of the magazine.

From the above description, taken in connection with the accompanying drawings, the construction and operation of the device will be readily understood, and it will be seen that a simple, convenient, and efficient construction of a combined cigar cutter and match vender is provided.

While I have shown what I deem to be the preferable form of my device, I do not wish to be limited thereto, as there might be many changes made in the details of construction and arrangement of parts without departing from the spirit of my invention.

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

1. In a device of the class described, the combination of swinging arms, a cigar cutter carried upon said arms, said cutter be-

ing operative upon the depression of said arms, a match magazine having a discharge opening, means operatively connected with said swinging arms adapted upon the depression of said arms to effect the discharge of a single match from said magazine, and means adapted upon the return movement of said arms to cause the ignition of the match discharged and the positioning thereof to extending position.

2. In a device of the class described, the combination of swinging means, a cigar cutter carried upon said means, said cutter being actuated upon the depression of said means, a match magazine having a discharge opening, means operatively connected with said swinging means arranged adjacent to said opening adapted upon the depression of said swinging means to effect the removal of a single match from said magazine, means adapted upon the return movement of said arms to cause the ignition of the match removed, and means cooperative with the last named means for causing the rocking of said match into extended position subsequent to the ignition thereof.

3. In a device of the class described, the combination of a match magazine having a discharge opening, a reciprocating carrier plate having a match receiving slot traversing said opening, rocking means communicating with said slot for receiving a match carried by said carrier plate, igniter means provided adjacent said rocking means adapted upon the actuation of the latter to cause the ignition of the match carried by said rocking means, means cooperative with the last named means for rocking a match into extending position upon the ignition thereof, substantially as described.

4. In a device of the class described, the combination of a match magazine having a discharge opening, a reciprocating carrier plate having a match receiving slot, traversing said opening, rocking means communicating with said slot for receiving a match carried by said carrier plate when said means are in lowermost position, an igniter provided adjacent to said rocking means adapted to cause the ignition of the match carried by said rocking means upon the upward movement of the latter, and means for rocking a match into extending position upon the ignition thereof, substantially as described.

5. In a device of the class described, the combination of a swinging cigar cutter, a match magazine having a discharge opening, a vertically reciprocating carrier plate traversing said opening having a match receiving slot registering with said opening when said plate is in lowermost position, rocking means operatively connected with said cigar cutter communicating with said slot for receiving a match carried by said

carrier plate when said means and said cigar cutter are in lowermost position, means provided adjacent to said rocking means adapted to cause the ignition of the match 5 carried by said rocking means upon the upward movement of the latter, and spring means adapted to engage one extremity of said match for rocking the same into extended position upon the ignition thereof, 10 substantially as described.

6. In a device of the class described, the combination of a swinging cigar cutter operative upon the depression thereof, an inclined match magazine having a discharge 15 opening, a vertically reciprocating carrier plate positioned adjacent said opening, said plate being provided with a match receiving slot registering with said opening when said plate is in lowermost position, a second 20 plate positioned adjacent said carrier plate having a match receiving slot registerable with said carrier slot when the latter is in uppermost position, rocking means operatively connected with said cigar cutter and 25 said carrier plate communicating with the slot of said second plate when said means are in lowermost position, means for causing

the ignition of the match carried by said rocking means upon the upward movement of the latter, and spring means for rocking 30 a match into extending position upon said rocking means reaching its uppermost position, substantially as described.

7. In a device of the class described, the combination of swinging arms, a cigar cutter 35 carried by said arms, means operatively connected with said swinging arms adapted upon the depression of said arms to effect the discharge of a single match from said magazine, means slidable in said magazine 40 adapted to force the matches contained therein toward the discharge opening thereof, a removable cover for said magazine, and locking means for said cover adapted 45 to be unlocked by said slidable means upon the latter reaching its lowermost position in said magazine, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN PIGNOCCO.

Witnesses:

JOSHUA R. H. POTTS,
HELEN F. LILLIS.