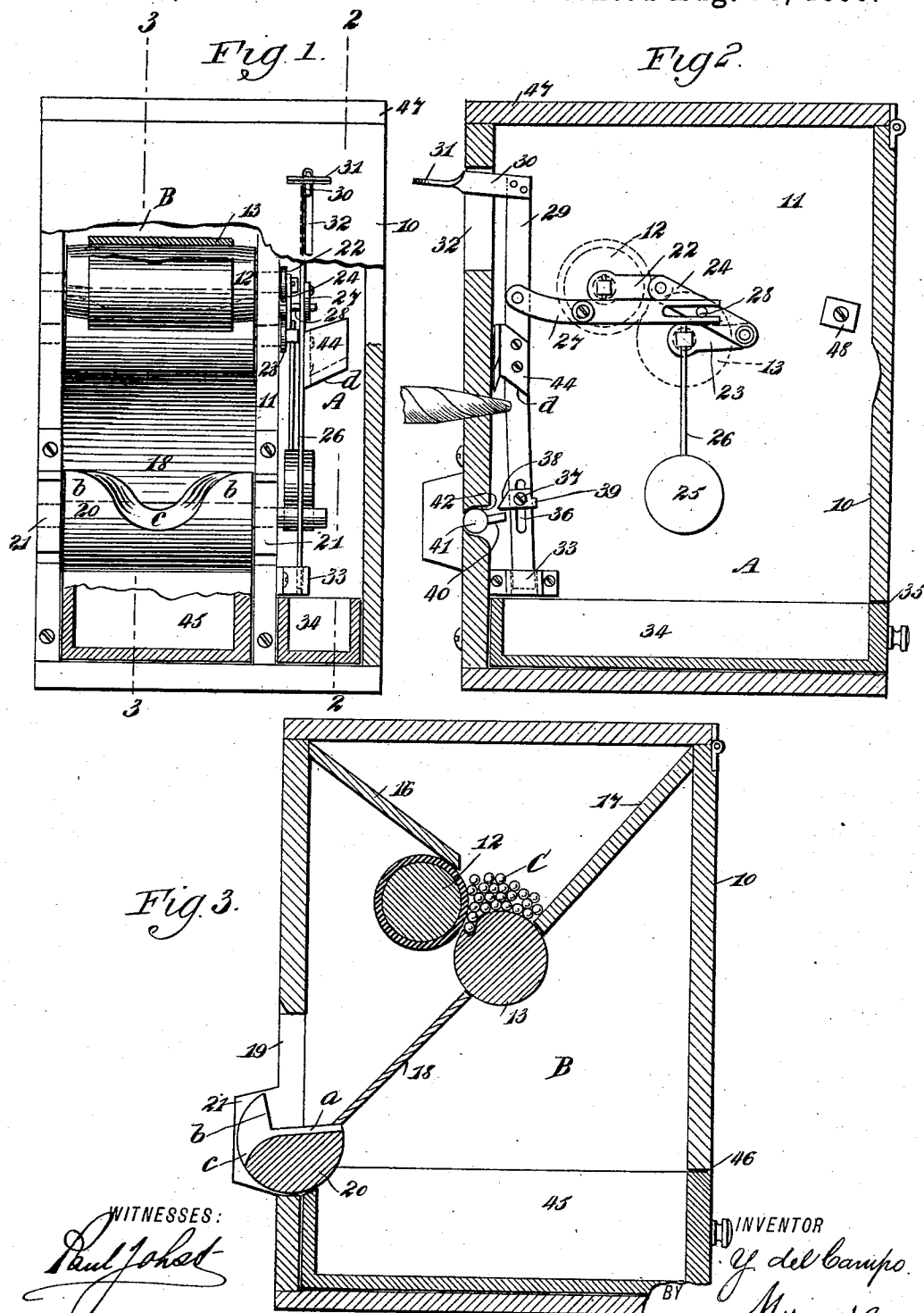


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COMBINED CIGAR CLIPPER AND MATCH BOX.

No. 566,137.

Patented Aug. 18, 1896.



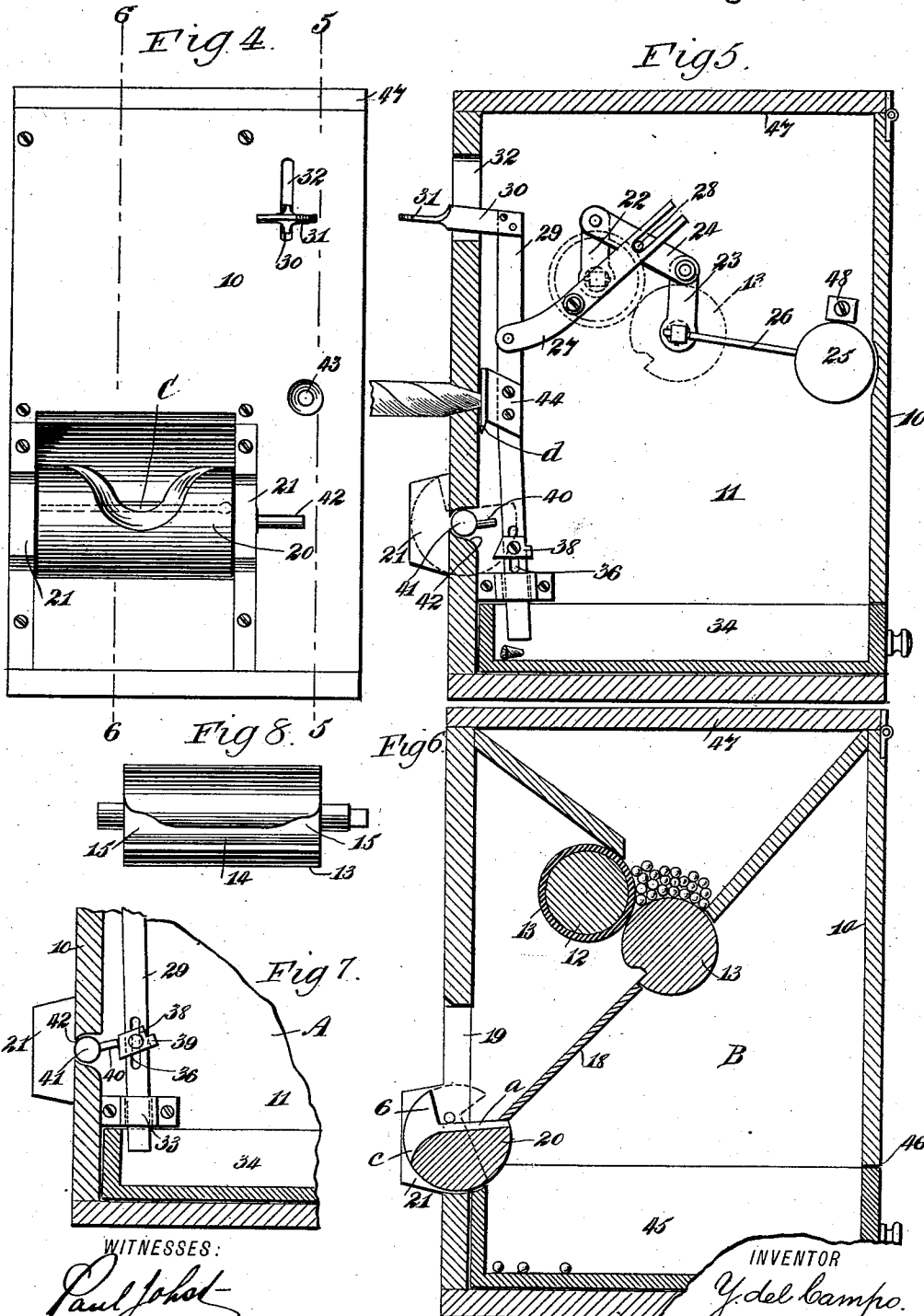
WITNESSES:
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Isaac B. Owens

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ATTORNEYS.

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UNITED STATES PATENT OFFICE.

YSIDRO DEL CAMPO, OF EL PASO, TEXAS.

COMBINED CIGAR-CLIPPER AND MATCH-BOX.

SPECIFICATION forming part of Letters Patent No. 566,137, dated August 18, 1896.

Application filed August 16, 1895. Serial No. 559,515. (No model.)

To all whom it may concern:

Be it known that I, YSIDRO DEL CAMPO, of El Paso, in the county of El Paso and State of Texas, have invented a new and Improved
5 Combined Cigar-Clipper and Match-Box, of which the following is a full, clear, and exact description.

The main object of this invention is to provide a combined match-box and cigar-clipper
10 and one in which the matches will be delivered with a regular feed, so that it will be highly inconvenient for persons to carry away more than one or two matches.

Other objects are contemplated, all tending to increase the efficiency, durability, and cheapness of the invention, and the full attainment of all will be apparent from the following specification.

To these ends the invention consists principally in a gravity-controlled feed-roller
20 communicating with the primary receptacle for the matches and capable of turning to deliver the match into a receptacle from which it may be removed by the operator, and in the
25 cigar-clipping device operatively connected with the feed-roller and moving in unison therewith.

The invention further consists in various novel features of construction and combinations of parts, as will be fully described hereinafter, and finally embodied in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 represents a front elevation of my invention, parts of the same being shown in section. Fig. 2 is a section on the line 2 2 of Fig. 1. Fig. 3 is a section on the line 3 3 of Fig. 1. Fig. 4 is a front elevation of the machine. Fig. 5 is a section on the line 5 5 of Fig. 4, said view differing only from Fig. 2 in that the parts are shown in a different position. Fig. 6 is a section on the line 6 6 of Fig. 4, this view also being only different from Fig. 3 in that the parts are shown to have a different position. Fig. 7 is a detail section showing the operation of the delivery-rollers, and Fig. 8 is a side elevation of the
50 feed-roller.

My invention comprises a substantially rec-

tangular casing 10, to be formed of any suitable material and having a partition 11 therein, which divides its interior into two compartments A B, the compartment A being a
55 size equal to about one-half the size of the compartment B.

Revolubly journaled in the partition 11 and in the right-hand side of the casing 10 is a roller 12, the same having a rubber band 13
60 wound around it and having slightly-tapering ends. This roller coacts with a feed-roller 13, which is also journaled in the partition 11 and in the right-hand side of the casing 10. This roller is formed with a longitudinal groove 14, having at its central and main portion substantially perpendicular sides and having at its extremities enlarged portions 15, which are designed to receive
65 the heads of the matches and prevent contact of the same with the other parts of the machine.

Located within the compartment B of the casing are the inclined boards 16 and 17, which are each disposed inwardly from the
75 respective front and rear sides of the casing, and which respectively engage the rollers 12 and 13, so as to form a hopper for containing the matches C.

Alined with the boards 17 and located below the roller 13 is an inclined chute or board 18, which projects opposite an opening 19 in the casing 10 and engages the inner extremity of the plane portion *a* of the roller 20, the said roller being journaled in offsets or
85 brackets 21, projecting from the side of the casing, and comprising, in addition to the plane portion *a*, the shoulders or abrupt portions *b* and central notch *c*. This is the match-delivery roller.

The left-hand trunnions of the rollers 12 and 13 are projected beyond the partition 11, and they have fixed thereto a crank-arm 22 and 23, respectively, and these crank-arms have the same relative disposition on the rollers and are connected to each other by the link 24, which is diagonally extended when the parts are in their normal position. This normal position is caused and maintained by the weight 25, connected to the left-hand trunnion of the roller 13 through the medium of a spring-rod 26. Secured to the partition 11
90
95
100

and just above the plane of the trunnions on the roller 13 is a stop 48, which serves to limit the upward movement of the weight 25.

Fulcrumed on the partition 11 and in the compartment A is a lever 27, which has one end extended to the link 24 and slotted longitudinally, so as to receive a pin 28, projecting from the middle of said link, while the remaining or forward end of the lever 27 is pivotally connected to the vertical bar 29. This bar 29 is provided at its upper end with a forwardly-extending arm 30, the same having a flattened finger-grasp 31, projecting through a vertically-elongated slot 32 in the front of the casing 10, and by these means the upper end of the bar 29 is held in approximately a fixed line of vertical and longitudinal movement. The lower end of the bar 29 is movable in a bracket 33, fixed to the left-hand side of the partition 11 just above the drawer 34, which drawer is movable through an opening 35 in the rear side of the casing and may be opened from said rear side.

The bar 29 is formed with a longitudinal slot 36 just above the bracket 33, and this slot has a screw-pin 37 adjustable vertically in it, and the said pin carries a dog 38, which is pivotally hung on the pin and provided at its rear lower portion with a transversely-extending detent 39, which engages the rear side of the bar and which prevents the front end of the dog from upward movement above the horizontal line. This dog is adapted to coact with a pin 40, projecting from the left-hand trunnion 41 of the delivery-roller 20, and it will be seen that as the bar 29 reciprocates downwardly the dog will positively engage the pin and rock the roller 20 inwardly, while on the upward movement of the bar 29 the inclined front end of the dog 38 will engage with the pin 40 and the dog will swing to avoid the said pin, as best shown in Fig. 7. The trunnion 41 of the roller 20 is located in a notch 42, formed in the front of the casing 10, and the pin 40 projects inwardly from the trunnion and into the compartment A of the casing.

Formed in the front of the casing 10 and communicating with the compartment 11 is a circular opening 43, which is opposite a knife 44, the same being removably secured to the bar 29 and comprising an angle-plate having an upwardly-inclined and beveled edge *d*. By making the knife removable it may be detached from the bar 29 for the purpose of sharpening and other repair. The opening 44 is so disposed with relation to the drawer 34 that the tip of the cigar, when severed from the body portion of the same, will fall into the said drawer.

The compartment B has at its lower portion a drawer 45, which is so disposed that the roller 20 will deliver a match into it when the said roller is rocked rearwardly and the drawer 45 reciprocates through an opening 46 in the rear side of the casing 10. The upper end of the casing is provided with a hinged

lid 47, which covers the match compartment or hopper.

In the use and operation of my invention the hopper formed by the boards 16 and 17 is filled with matches, as shown in Figs. 3 and 6, and supposing that one desires to secure a match and to clip the end of his cigar all that will be necessary is to insert the end of the cigar into the opening 43 and press the finger-piece 31 of the bar 29 downwardly, which will cause the said bar to move in a corresponding direction and the knife 44 will move past the opening 43 and sever the tip of the cigar from the body portion, as Fig. 5 shows. Simultaneously with this operation the lever 27 will swing the arms 22 and 23 upwardly, as shown in Fig. 5, so as to rock the rollers 12 and 13 and cause the groove 14 of the latter roller to move forwardly and downwardly, carrying with it a match and delivering the same upon the chute 18, down which said match gravitates and falls upon the plane portion *a* of the roller 20. Immediately after this operation the weight 25 exerts its influence and returns the parts to their normal position, as shown in Fig. 2. The first operation performed upon the downward movement of the bar 29 is the engagement of the dog 38 with the pin 40, which will result in a rocking of the roller 20 inwardly, so as to incline the plane portion *a* toward the drawer 45, so that if a match be seated on said portion it will be emptied into the drawer. The eccentric disposition of the roller 20 will cause the same to automatically return to its normal position, and this return will be directly prior to the delivery of the match from the roller 13 by the operation of the downwardly-moving bar 29. By these means if the match be not taken from the roller 20 it will be emptied into the drawer 45 and saved. This operation prevents any possible loss of matches, and it will also be seen that persons will not be extravagant with the matches, because of the inconvenience which attends securing more than one or two.

The rod 26 is resilient, so that upon the engagement of the weight 25 and stop 48 the rod will be bent and will then react and cause the return of the weight with greater speed than otherwise.

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

1. The combination with a casing having a hopper at its upper portion, of a feed-roller having a groove and located at the mouth of the hopper, an inclined chute below the feed-roller, a delivery-roller at the lower end of said chute, and a drawer adjacent to the delivery-roller, substantially as described.

2. The combination with a casing having a hopper at its upper portion and an opening near its lower portion, of a feed-roller having a groove and located at the mouth of the hopper, and a chute extending downwardly

from the feed-roller and to the opening in the casing, a delivery-roller mounted at said opening, and a drawer located on the rear side of the chute and opposite the opening, substantially as described.

3. The combination with a casing having a hopper, of a feed-roller journaled at the mouth of the hopper, a reciprocable bar having a connection with the feed-roller, a cigar-clipping knife actuated by the bar, a delivery-roller having a projection thereon, and a pivoted dog carried by the bar and coacting with the projection, substantially as described.

4. The combination with a casing having a hopper and a feed-roller, of a delivery-roller having a projection thereon, a reciprocable bar, and a pivoted dog, substantially as described.

5. The combination with a casing having a hopper and feed-roller, of a delivery-roller having a projection, a reciprocable and slotted bar, and a pivoted dog carried by the bar and adjustable in its slot and having a detent engaging the bar, substantially as described.

6. The combination with a casing having two compartments and a hopper in one compartment, of two rollers journaled at the mouth of said hopper, one of said rollers having a longitudinal slot, the trunnions of the rollers being projected into the remaining compartment, an arm carried by each trunnion, a link pivotally connected with the arms and having a projection, a lever having a slotted portion receiving the projection of the link, a vertically-reciprocating bar pivotally connected with the link, a cigar-clipping knife carried by the bar, a delivery-roller having a plane portion contiguous to an abrupt portion or shoulder and having a projection, a pivoted dog on the bar, a drawer for each compartment of the casing, and a weight for actuating the rollers at the mouth of the hopper, substantially as described.

7. The combination with a casing having a hopper, of feed devices for said hopper, a chute below the feed devices, a delivery-roller

at the lower end of the chute, and a drawer adjacent to the delivery-roller, substantially as described.

8. The combination with a casing having a hopper, of a feed mechanism for the hopper, a knife connected with the feed mechanism and operated upon the operation of the feed mechanism, a delivery-roller, and a drawer, substantially as described.

9. The combination with a casing having a hopper, of two rollers adjacent to the mouth of the hopper, one roller having a slot, an arm carried by each roller, a link pivotally connected to the arms, a weight connected with one roller, a slotted lever having slidable connection with the link, a knife connected with the lever, a delivery-roller and a drawer, substantially as described.

10. The combination with a casing having a hopper, of feed mechanism, a chute, and a delivery-roller, the delivery-roller being operated in unison with the feed mechanism, substantially as described.

11. The combination with a casing, of a hopper, feed mechanism, and a delivery-roller, the delivery-roller being capable of returning material to the casing when said material is not taken from the roller, substantially as described.

12. The combination with a casing having a hopper, of feed mechanism for the casing, a bar reciprocating in unison with the feed mechanism, a pivoted dog on the bar, and a delivery-roller, the said roller cooperating with the dog, substantially as described.

13. The combination, with a casing having a hopper and having a drawer separate from the hopper, of a delivery-roller and mechanism for operating said roller, the roller being capable of taking material from the hopper and of returning to the drawer material not removed from the hopper, substantially as described.

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Witnesses:

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