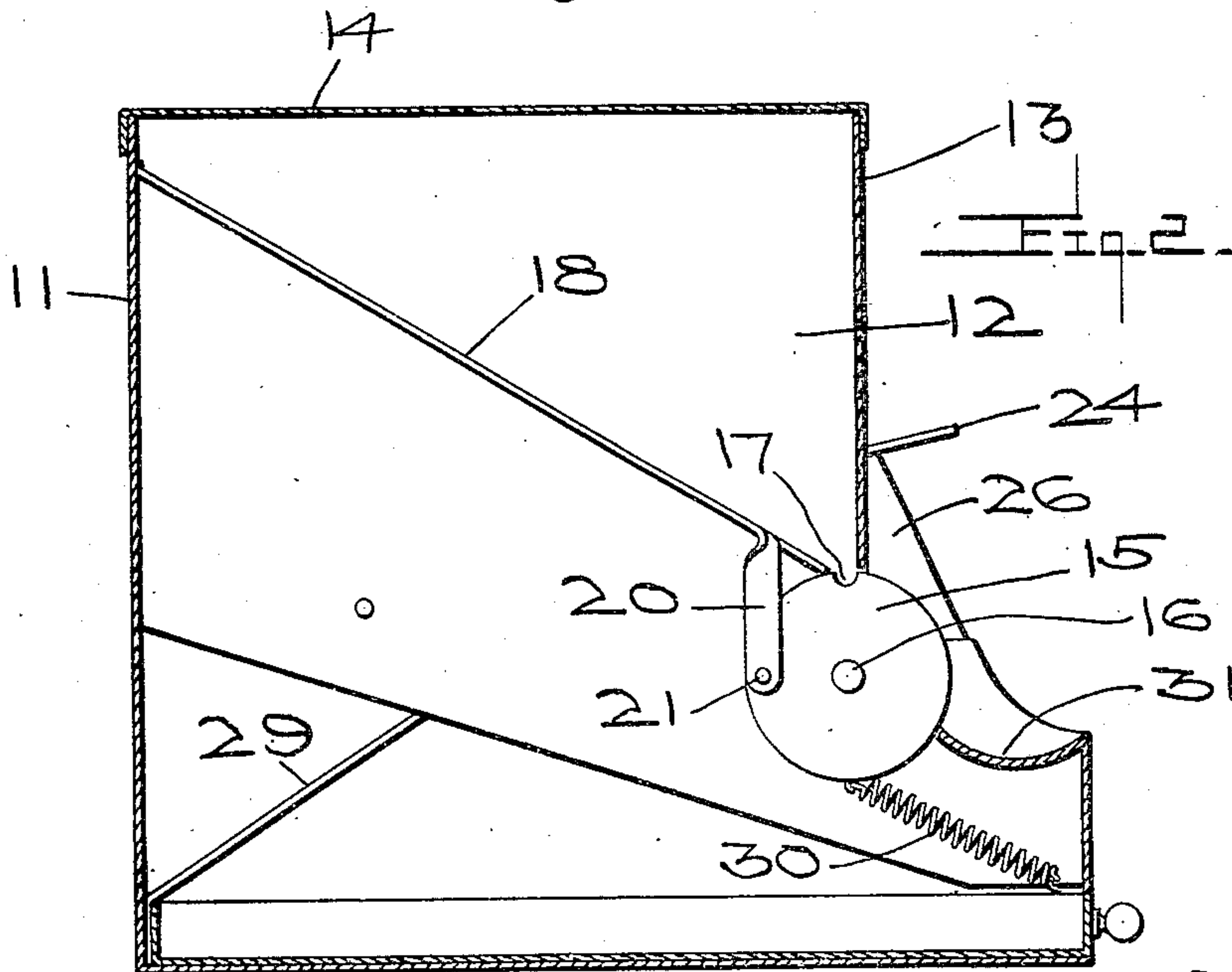
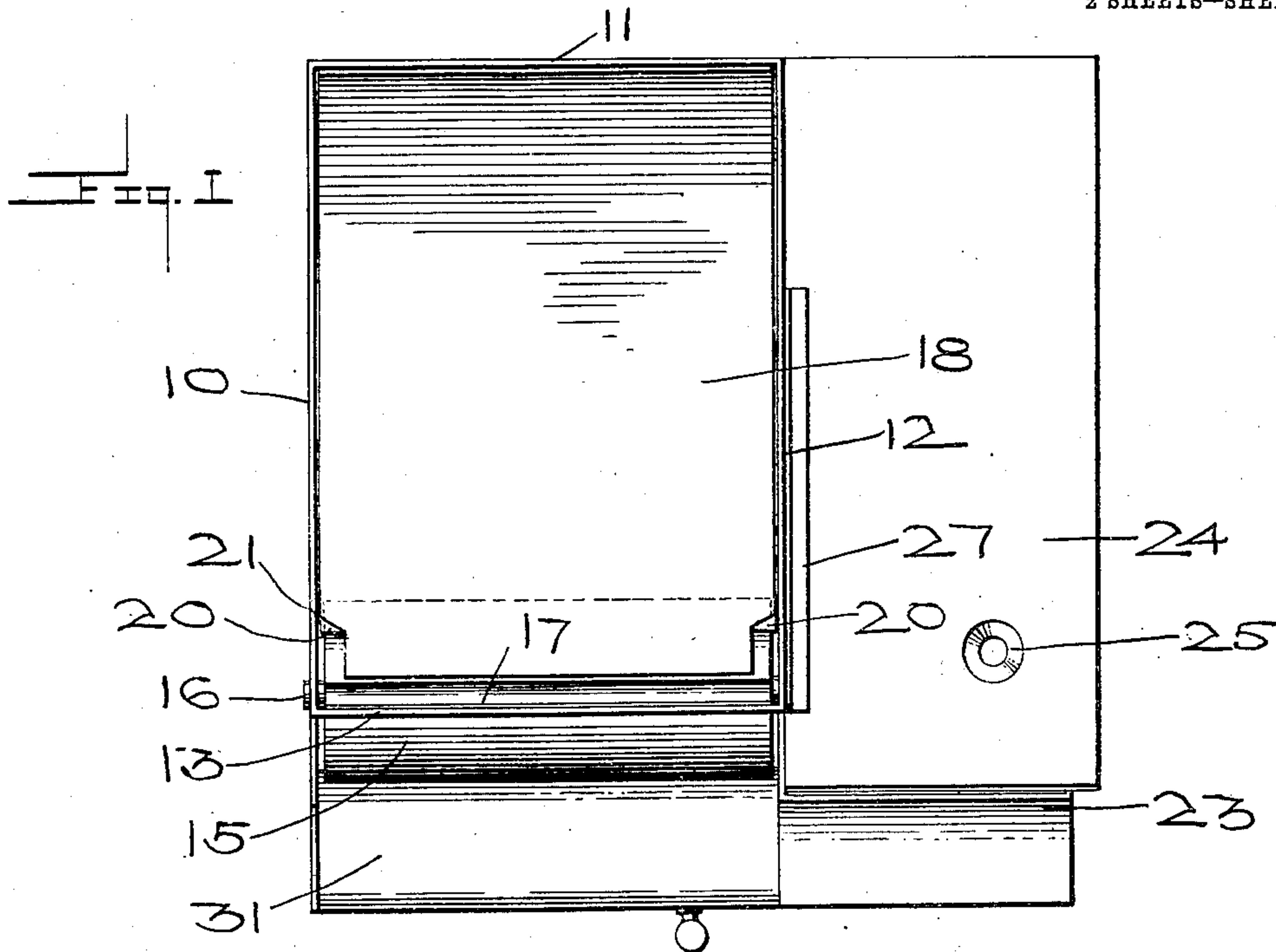


F. M. ROSS & J. A. WARD.
 COMBINED MATCH BOX AND CIGAR CUTTER.
 APPLICATION FILED NOV. 21, 1908.

935,411.

Patented Sept. 28, 1909.

2 SHEETS—SHEET 1.



Inventors

Francis M. Ross and

John A. Ward

By Woodward & Looney

Attorney

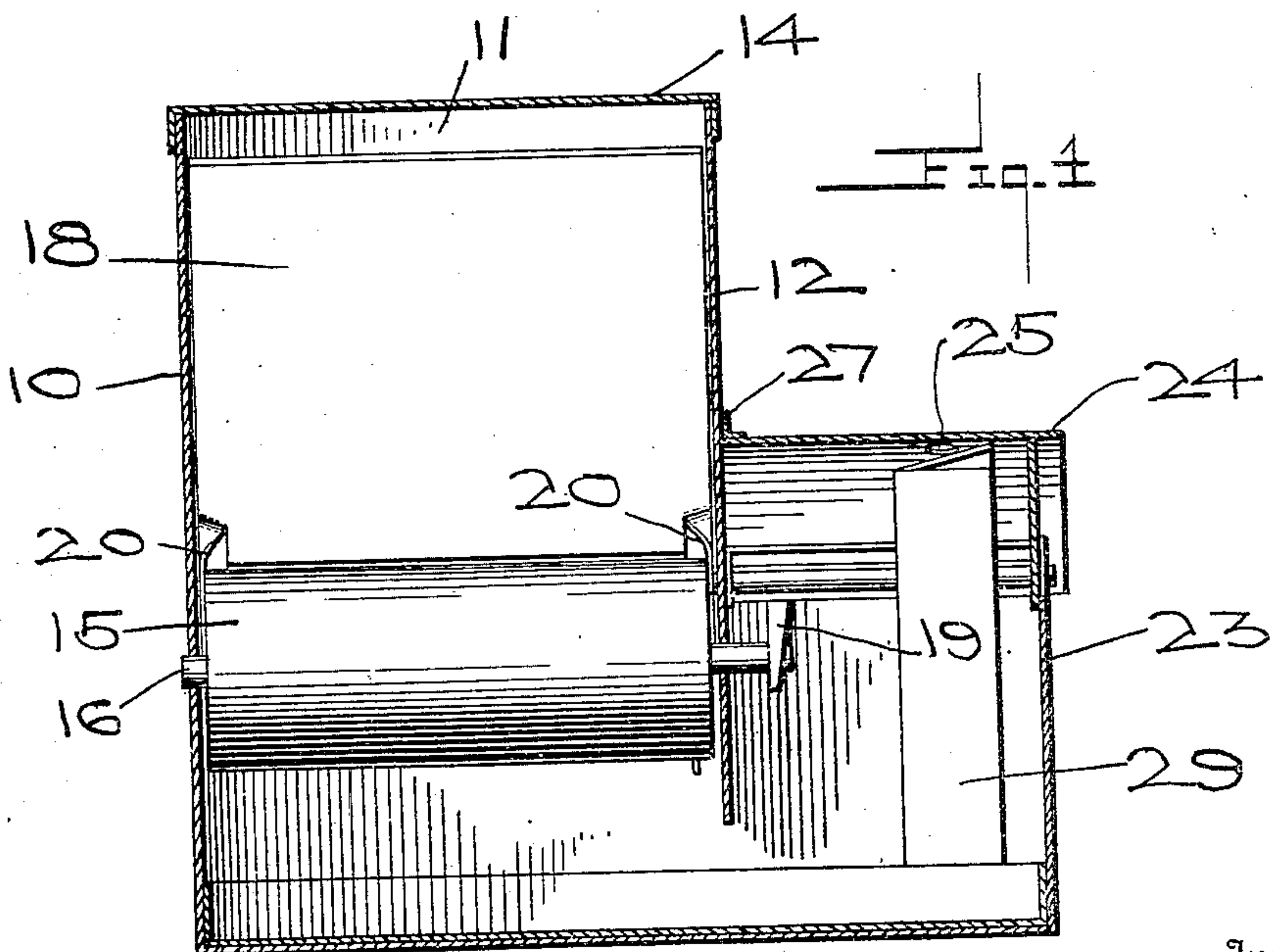
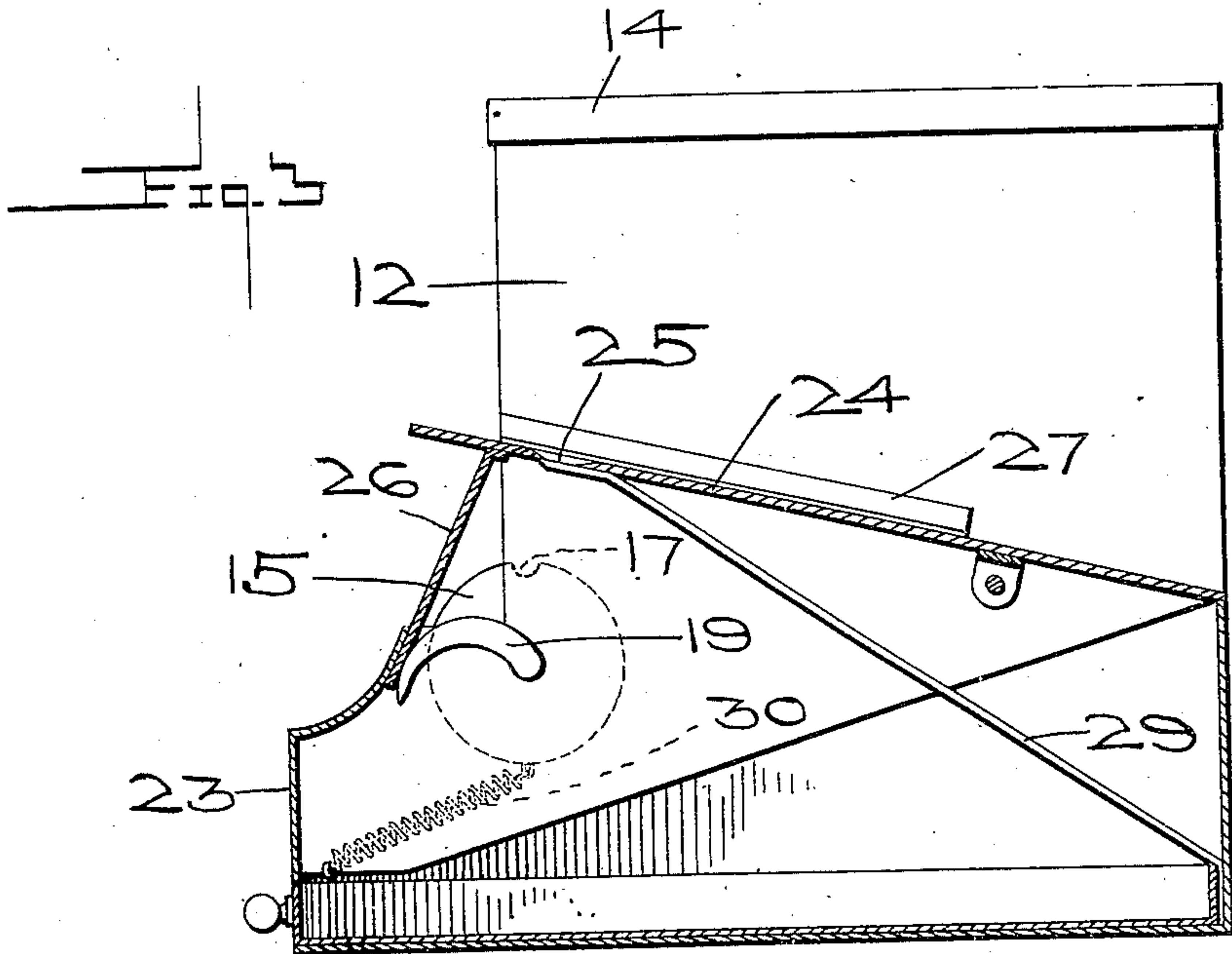
Witnesses
Ed. P. Luby
E. L. Chandler

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UNITED STATES PATENT OFFICE.

FRANCIS M. ROSS AND JOHN A. WARD, OF SPOKANE, WASHINGTON.

COMBINED MATCH-BOX AND CIGAR-CUTTER.

935,411.

Specification of Letters Patent. Patented Sept. 28, 1909.

Application filed November 21, 1908. Serial No. 463,827.

To all whom it may concern:

Be it known that we, FRANCIS M. ROSS and JOHN A. WARD, citizens of the United States, residing at Spokane, in the county of Spokane and State of Washington, have invented certain new and useful Improvements in a Combined Match-Box and Cigar-Cutter, of which the following is a specification.

10 This invention relates to combined match boxes and cigar cutters and has special reference to an automatic machine combining the action of cutting a cigar and delivering a match.

15 An object of this invention is to form a machine which will deliver a match simultaneously with the cutting of the cigar tip.

Another object is to construct a device of this character that will not injure the cigar by too strong a pressure upon the end being cut in order to actuate the knife blade and to deliver the match.

A further object of the invention is to provide a device that will be simple in construction and durable in its parts, for a device of this nature is of no practical use where there is a complication of parts as it is used in stores where it is subject to rough usage and where it would involve great and useless expense to keep it in repair.

30 A still further object is to produce a small compact device which will be of light weight so that a traveling salesman would be enabled to carry a number of the same with him.

Other objects and advantages will be apparent from the following description and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

45 In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a top plan view with the cover of the match receptacle removed, Fig. 2 is a cross section of the match receptacle and delivering device, Fig. 3 is a side elevation of the cigar cutter with the side removed, Fig. 4 is a front elevation of the device, the front wall being removed.

Referring to the drawings, 10 designates

one of the sides of the match receptacle, 11 the back, 12 the opposite side and 13 the front. The front 13 extends downwardly from the top 14 centrally of the sides 10 and 12 where it is in frictional contact with the periphery of a cylinder 15. The cylinder 15 is horizontally mounted between said sides 10 and 12 on a shaft 16 and the cylinder 15 is provided with a longitudinal groove 17 at one portion in its surface. Said sides 10 and 12 extend forwardly at their lower portions beyond the cylinder 15 to support a match receiving tray 31 secured therebetween. An obliquely disposed bottom 18 is secured between said sides extending from the upper end of the back 11 downwardly to the cylinder 15 where it frictionally engages the same. At the opposite corners of the lower edge of the bottom 18 two arms 20 are formed which are depended and apertured to engage over studs 21 formed eccentrically upon the opposite ends of the cylinder 15. The arms 20 are employed for the purpose of oscillating the bottom 18 to close the space between the front 13 and the periphery of the cylinder 15. The bottom 18 is spaced at its lower end from the front 13 a distance equal to the distance through which the cylinder revolves for the purpose of closing the passage between the bottom 18 and the front 13.

The shaft 16 which supports the cylinder 15 extends longitudinally through the side 12 where a crank shaft 19 is formed integrally with the shaft 16. Surrounding said crank shaft 19 is a boxing 23 having its upper edge disposed at an incline toward the front of the machine and which supports a pivoted cover or top 24 having formed therein an aperture 25 for the reception of an end of a cigar. The top 24 is provided with a depending flange 26 formed upon its front end and upon its outer edge.

A spring 30 is positioned between the inner wall of the front 13 and the under side of the cylinder 15 for tensionally holding the cylinder 15 in such position as to normally retain the groove 17 adjacent the lower edge of the bottom 18 at the rear of the front 13 into which a match is adapted to drop from the bottom 18. By the action of the spring 30 the crank shaft 19 is normally pressed upward against the edge of

the front flange 26 causing said top 24 to be forced and held upward at an incline against a cleat 27 disposed upon the outer face of the side 12. Mounted upon the rear lower
 5 end of the boxing 23 is a cutter blade 29 which is formed of spring metal and which is forced upward against the under side of the top 24 adjacent the aperture 25. The
 10 cutter blade 29 is obliquely disposed across the under side of the top 24 so as to present a sliding knife edge to the aperture 25. Upon the depression of the top 24 the cutter
 15 29 is caused to be forced forward in sliding contact with the under side of the top 24. The top 24 is suitably pivoted at its rear end between the outer side of the boxing 23 and the side 12.

In operation and use, matches are placed in the match receptacle upon the obliquely
 20 disposed bottom 18 and the lowermost match falls into the groove 17 in the cylinder 15 in readiness for delivery. The end of a cigar is placed in the aperture 25 of the top 24 and pressed downward. The flange 26 which is
 25 abutting against the end of the crank shaft 19 depresses said crank shaft 19 and causes the partial rotation of the shaft 16 rotating the cylinder 15 and delivering the match in the groove 17 onto the tray 31 where the
 30 user can take it. Immediately upon the release of the top 24 the spring 30 returns the cylinder 15 and the top 24 to their normal positions. When the top 24 is depressed the
 35 cutter blade 29 is caused to move forward against the under side of the top 24 and to pass under the aperture 25, to engage the butt of the inserted cigar to cut the same, against the tension of the spring 30. When
 40 the top 24 is released and the crank shaft 19 is actuated to return the top 24 to its normal position against the cleat 27 the cutter blade 29 is permitted to return to its substantially vertical position under its own tension.

The forward and upward movement of
 45 the bottom 18 produces an effect of preventing the clogging or binding of the matches in the receptacle as well as the continuous and regular feed of the same.

What is claimed is:—

50 1. A device of the character described comprising a body portion, an inclined bottom in said body portion, a front in said body portion, the lower edge of said front being spaced from the front edge of said
 55 bottom, a cylinder horizontally disposed below said edges, said cylinder having a longitudinal groove therein, a shaft for supporting said cylinder, a crank shaft disposed on one end of said shaft, a spring dis-
 60 posed between said cylinder and said body portion, a boxing about said crank shaft, an apertured top pivoted on said boxing, a depending flange on said top, said flange being adapted to engage said crank shaft, and a
 65 cutter carried by said boxing adapted to

engage the under side of said top and to slide against the same past the aperture of the top.

2. In a device of the character described, the combination with a match delivering
 70 machine, of a boxing on the side of said machine, a pivoted top on said boxing, means connected with said top to actuate said machine and a cutter arranged for actuating
 75 simultaneously with said top.

3. A device of the class described having a match delivering cylinder, a shaft carried by said device for supporting said cylinder, a crank shaft on said first shaft, a spring adapted to engage said cylinder, a pivoted
 80 top disposed on said device and a flange on said top, said flange being adapted to engage said crank shaft to operate the same.

4. A device of the character described comprising a match delivery machine and a
 85 cigar cutter, said cutter having a pivoted top connected to said delivery machine for the purpose of actuating the same.

5. In a device of the character described the combination of a body portion, a bottom
 90 pivotally mounted in said body portion, a grooved cylinder mounted in said body portion and connected to said body portion, a shaft for supporting said cylinder, a crank shaft on one end of said shaft, a spring dis-
 95 posed between said cylinder and said body portion, a boxing on one side of said body portion, a cover pivotally mounted on said boxing having an aperture formed there-
 100 through, a flange on said cover extended into said boxing for engagement with said crank shaft and a resilient cutter blade mounted in said boxing tensionally disposed against the
 105 under side of said cover adjacent the aperture formed therein for engagement with a cigar end upon the depression of said cover.

6. A device of the character described, comprising a match delivery machine and a
 110 cigar cutter, said cutter having a movable top connected to said delivery machine for the purpose of actuating the same.

7. A device of the character described, comprising a cigar cutter comprising a box-
 115 ing, an apertured cover pivotally disposed on said boxing, and a resilient cutter blade mounted in said boxing slidably engaged against said cover and adapted to be oper-
 120 ated by the movement of the same, a match delivery machine disposed adjacent said cigar cutter, and means disposed between said match delivery machine and said cover
 125 for the purpose of actuating said delivery machine upon the depression of said cover.

8. A device of the character described, comprising a match delivery machine, a
 125 crank shaft laterally extended from the same for the purpose of actuating said match delivery machine, a boxing disposed about said crank shaft, a cover hingedly mounted
 130 upon said boxing and engaged at its forward

extremity with said crank shaft for the purpose of actuating the same upon the depression of said cover, and a resilient cutter blade disposed in said boxing and engaged
5 against the under face of said cover at the forward end thereof for slidable engagement therewith.

In testimony whereof we affix our signatures, in presence of two witnesses.

FRANCIS M. ROSS.
JOHN A. WARD.

Witnesses:

H. E. COUGHLIN,
H. G. FREDERICK.