P. AMADEO.

COMBINATION MATCH LIGHTER AND CIGAR CLIPPER.

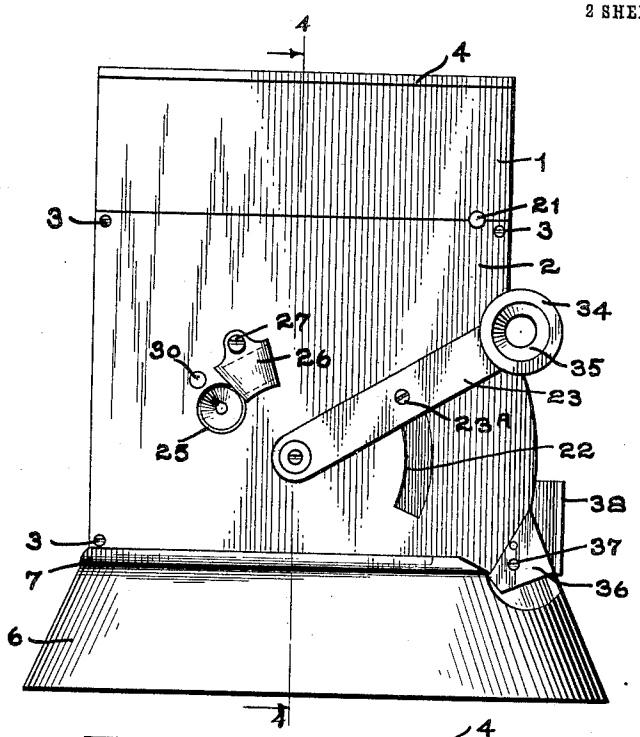
APPLICATION FILED AUG. 7, 1912.

1,067,209.

Patented July 8, 1913.

2 SHEETS—SHEET 1.

Fig. 1.



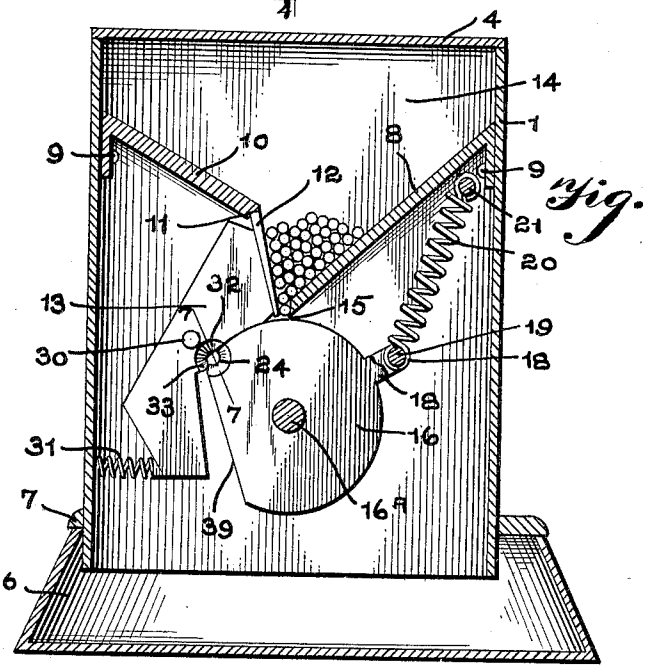


Fig. 2.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

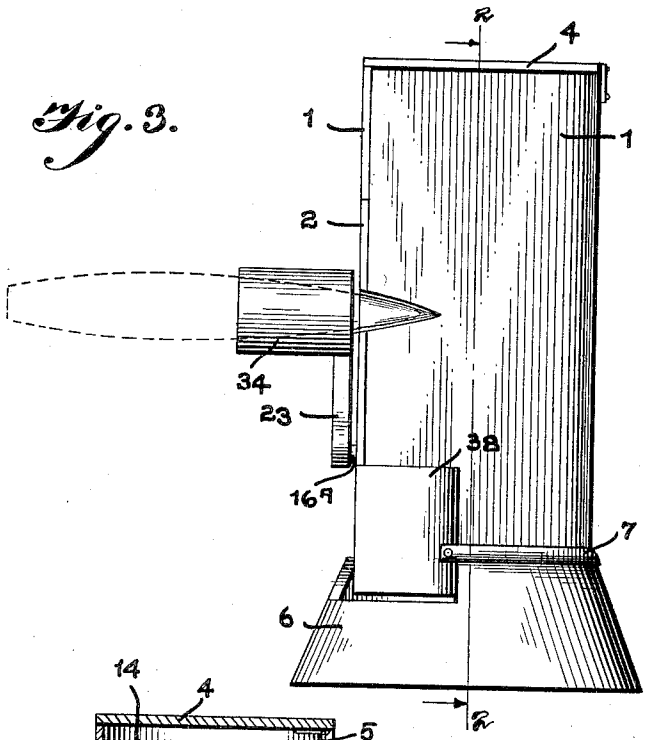
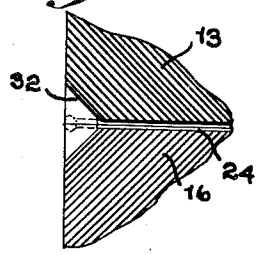


Fig. 7.



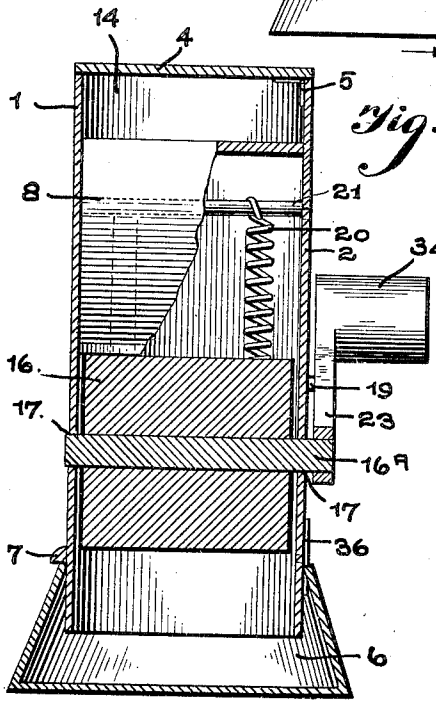


Fig. 4.

Fig. 5.

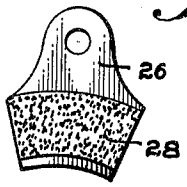
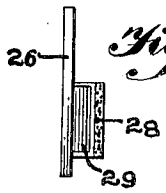


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

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COMBINATION MATCH-LIGHTER AND CIGAR-CLIPPER.

1,067,209. Specification of Letters Patent. Patented July 8, 1913.

Application filed August 7, 1912. Serial No. 713,898.

To all whom it may concern:

Be it known that I, PAUL AMADEO, a subject of the King of Italy, residing at Shenandoah, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in Combination Match-Lighters and Cigar-Clippers, of which the following is a specification.

My invention relates to an improved apparatus for clipping the ends of cigars and furnishing a lighted match to the user, and has for its primary object, to provide a combined machine, with an improved match discharging mechanism, so that a lighted match may be ejected from the match containing hopper, by the downward movement of the cigar clipping arm.

A further object is to provide an improved feed mechanism whereby the matches in the hopper are agitated slightly, thus obviating any possibility of the matches becoming clogged at the discharging point.

A still further object is to provide an improved match striking agent, which can easily be removed and supplied with new match striking material.

A further object is to provide a device of the character described, which is simple in construction, strong and durable in use, and can be manufactured at an extremely low cost.

With these and other objects, my invention consists of certain novel features of construction, and arrangements of parts, which hereinafter will be more fully described and pointed out in the claims.

In the accompanying drawings, Figure 1, is a view in front elevation of my improved apparatus. Fig. 2 is a longitudinal section partly in elevation, on the line 2—2 of Fig. 3. Fig. 3, is a side elevation. Fig. 4, is a vertical section on the line 4—4 of Fig. 1, with part of hopper wall broken away to illustrate parts behind same. Fig. 5, is an enlarged detailed elevation of the match striking agent. Fig. 6, is a view taken at right angles to Fig. 5, and Fig. 7, is a fragmentary section on the line 7—7 of Fig. 2.

My apparatus is so constructed as to have an outer casing 1, with a removable front plate 2, secured to the side walls of casing 1, by means of screws 3. A hinged top 4 is provided and is secured to the casing 1, by hinges 5, for the purpose of recharging the match hopper.

A separate hollow base 6 is provided and is adapted to receive the casing 1. An outwardly projecting flange 7 is so positioned on casing 1, as to limit the downward movement, when said casing is placed in the hollow base 6. This hollow base 6 receives the burnt matches and cigar clippings, and casing 1 can be easily removed and the refuse matter cleaned out of the hollow base.

In the upper end of casing 1, is a relatively long partition wall 8, secured to the side walls of casing 1, by rivets 9. Opposite the partition 9, is secured a shorter wall 10, by means of rivets 9. At the lower end of wall 10, an annular groove 11, is formed to receive an upwardly projecting plate 12, secured to the pivoted contacting block 13. The combination of the partitions 8 and 10 and plate 12 with front and rear walls of casing 1, forms a hopper 14, with a match discharging slot 15, at its lower extremity.

Positioned directly under hopper 14, is a feeding cylinder 16 rigidly mounted on shaft 16ª, said shaft being journaled to the front and rear walls of casing 1, by means of bearings 17. Integral arms 18 are formed on cylinder 16, and are perforated at their extremities to receive bar 19, which projects through the slot 22 of plate 2 and secured to the arm 23, by means of a screw 23ª.

Coil springs 20 at their lower ends are secured to the bar 19, the upper end of said springs are fastened to a bar 21, which is supported in the front and rear walls of casing 1.

A semi-circular groove 24 is formed on the periphery of cylinder 16, and is so positioned, that when bar 23 is pressed downward, it will position itself immediately under the slot 15, ready to receive a match. This groove 24 registers with an opening 25 in plate 2. The end of the groove 24 nearest the plate 2, is beveled, as most clearly shown in Fig. 7. By this novel construction, it will be noted that the head of the match does not come in contact with any surface, thus enabling said match to burn freely.

A striking block 26 is removably secured through an opening in plate 2 by means of a screw 27. The block is placed in the direct path of the groove 24. The inner surface of block 26 is supplied with a roughened plate

or sheet 28, over a beveled block 29, rigidly secured to block 26 and which extends through a correspondingly shaped opening in plate 2 into the path of movement of the head of a match held in the groove 24 of cylinder 16.

The contacting block 13 mounted on a shaft 30, journaled in the front and rear walls of the casing 1, is provided for the purpose of holding the match in operative position. A slight pressure is exerted on this block, by the spring 31, located at its lower extremity. A beveled portion 32 is formed and the combination with beveled portion of cylinder 16 complete a circular beveled opening. An ear 33 is so constructed on block 13, to limit downward movement of the match, and at the same time allow the burnt match to be discharged into the base 6, as will be more fully hereinafter described.

At the free end of arm 23, is a circular handle 34, with a beveled opening 35 therein, adapted to receive the end of a cigar. Located in the path of the arm 23, at the bottom of casing 1, is a knife blade 36 held in position by screws 37. An L-shaped guard 38 is provided to direct the cigar ends into the base 6.

The operation of my improved apparatus is as follows: Having supplied hopper 14 with matches, a cigar is inserted in the opening of handle 34. The handle is then pressed downward until the end of the cigar is cut by the blade 36. The feeding cylinder 16 being secured to the arm 23, will rotate, thus bringing groove 24 beneath slot 15, ready to receive a match. The bar 23 is then released and the springs 20 will cause the arm 23 to again return to its normal position as shown most clearly in Fig. 2. As the cylinder is moved to its normal position by means of the springs 20, the match located in the groove 24 will have its head rubbed against the striking surface 28, igniting the match. When the lighted match reaches the opening 25, it is burning so that a cigar may be placed against the flame and ignited while the match is held securely in the groove 24 by means of the spring-pressed block 13. When this operation is repeated, and the groove 24 starts on its upward movement, the burnt match will rest on the ear 33, until the flat portion 39 of cylinder 16, moves around, then the match will fall into the base 6. The rotary movement of cylinder 16 will cause the block 13 to move slightly, thus it will be seen that the plate 12 will slightly agitate the matches in the hopper 14, obviating the possibility of the matches becoming clogged.

I have specifically described the construction and arrangement of parts, but I desire it to be understood that I do not limit myself to the exact forms and location of parts, as many changes might be made therein, without departing from the spirit and scope of my invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:—

1. A device of the character described, comprising a hopper having one stationary inclined wall at its lower outlet end, a block pivoted between its ends, a plate secured to said block and constituting a movable wall at the open lower end of the hopper, a spring holding said block in normal position, a rotary match delivering member contacting with the surface of said block, said rotary member having a match receiving groove therein adapted to register with the lower end of the hopper, and the movement of a match by the rotary member contacting with the block, causing the block to pivot and permit a match to fall into the open lower end of the hopper against the surface of the rotary member, substantially as described.

2. A device of the character described, comprising a hopper having one stationary inclined wall at its lower outlet end, a block pivoted between its ends, a plate secured to said block and constituting a movable wall at the open lower end of the hopper, a spring holding said block in normal position, a rotary match delivering member contacting with the surface of said block, said rotary member having a match receiving groove therein adapted to register with the lower end of the hopper, and the movement of a match by the rotary member contacting with the block, causing the block to pivot and permit a match to fall into the open lower end of the hopper against the surface of the rotary member, said block having a groove therein to register with the groove in the rotary member when the match reaches a pre-determined position, and match striking means located in the path of movement of the head of the match between the outlet of the hopper, and said groove in the block, substantially as described.

3. A device of the character described, comprising a hopper having one stationary inclined wall at its lower outlet end, a block pivoted between its ends, a plate secured to said block and constituting a movable wall at the open lower end of the hopper, a spring holding said block in normal position, a rotary match delivering member contacting with the surface of said block, said rotary member having a match receiving groove therein adapted to register with the lower end of the hopper, and the movement of a match by the rotary member contacting with the block, causing the block to pivot and permit a match to fall into the open lower end of the hopper against the surface of the rotary member, said block having a

groove therein to register with the groove in the rotary member when the match reaches a pre-determined position, a match striking means located in the path of movement of the head of the match between the outlet of the hopper, and said groove in the block, said block and said rotary member having straight walls which when the rotary member moves in a direction to receive a match from the hopper, form an outlet passage through which the burnt match falls, substantially as described.

4. In a device of the character described, the combination with a casing, a hopper in the casing having a restricted outlet at its lower end through which a single match is adapted to be discharged, a rotary member below the hopper and having a match receiving groove therein, a spring-pressed block against the rotary member, a match striking block secured to the casing and having a roughened surface in the line of movement of the head of the match when the latter is in the groove, said casing having an opening therein opposite which the match while burning is positioned, said rotary member and said spring pressed block having straight portions between which the match is adapted to fall when the rotary member moves in the direction to receive a second match, and means for operating the rotary member, substantially as described.

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

PAUL AMADEO.

Witnesses:
ANTHONY DUGAN,
LOUIS ABRAMSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."