No. 853,314. PATENTED MAY 14, 1907.

P. J. NAWN.

COMBINED CIGAR CUTTER AND LIGHTER.

APPLICATION FILED MAR. 12, 1906.

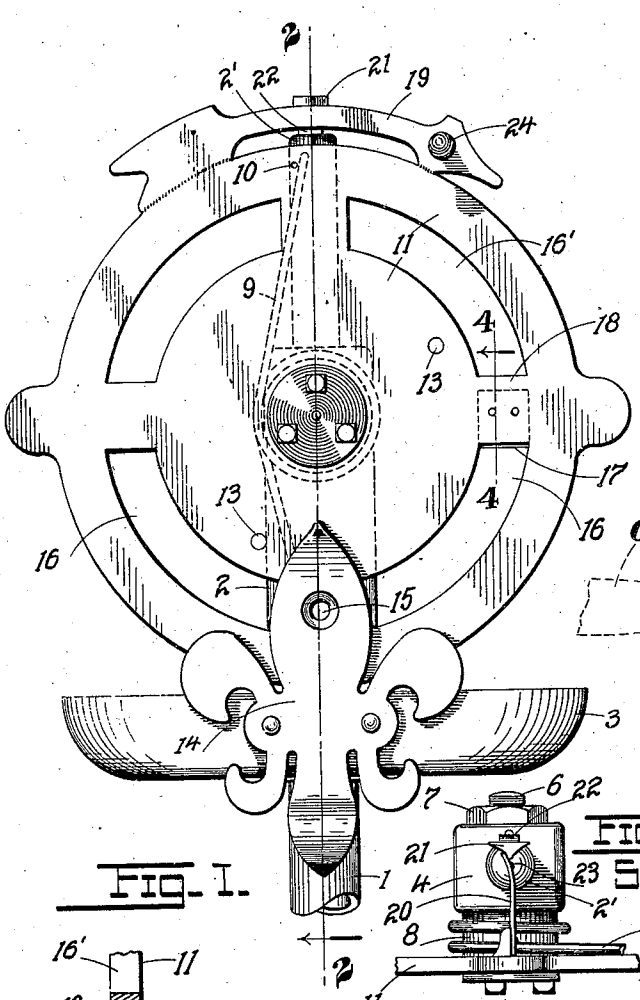

FIG. 1.

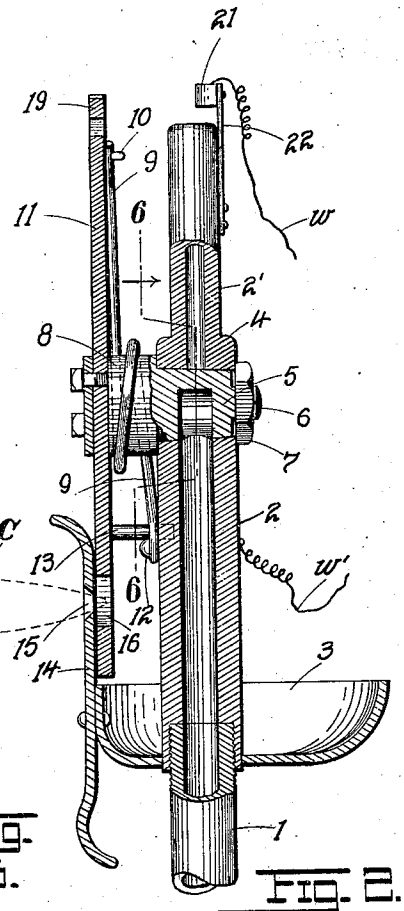

FIG. 2.

FIG. 5.

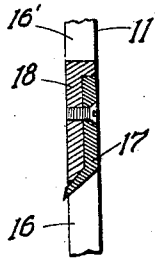

FIG. 4.

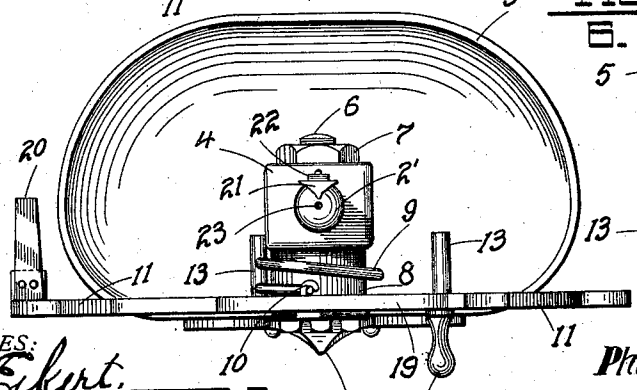

FIG. 3.

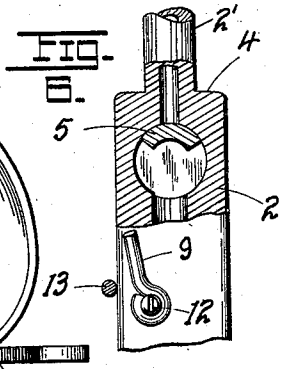

FIG. 6.

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COMBINED CIGAR CUTTER AND LIGHTER.

No. 853,314. Specification of Letters Patent. Patented May 14, 1907.

Application filed March 12, 1906. Serial No. 305,606.

To all whom it may concern:

Be it known that I, PHIL J. NAWN, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in a Combined Cigar Cutter and Lighter, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in combined cigar cutters and lighters; and it consists in the novel construction and arrangement of parts more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a face elevation of the device; Fig. 2 is a vertical transverse section on the line 2—2 of Fig. 1; Fig. 3 is a top plan thereof; Fig. 4 is a sectional detail on the line 4—4 of Fig. 1; Fig. 5 is a top plan (omitting the waste receptacle) with the cutter disk rotated ninety degrees or sufficiently to bring the electric contacts together; and Fig. 6 is a vertical sectional detail on the broken line 6—6 of Fig. 2.

The object of my invention is to construct a cigar cutter which upon severing the tip of the cigar brings into operation the lighting device from which the cigar may be lighted.

A further object is to construct a device whose principle of operation need not necessarily restrict it to gas lighters, but may extend to any other class, as for example electric, incandescent and the like as may suggest themselves to the skilled mechanic, all as will be more fully apparent from a detailed description of the invention which is as follows:

Referring to the drawings, 1 represents a gas supply pipe leading to any source of supply (not shown), said pipe terminating in a burner tube 2 carrying a waste receptacle or basin 3 to catch the cigar tips cut off by the knife. Mounted in the tube 2 beneath the shoulder 4 is a hollow conical rock-valve 5 having a screw-threaded stem 6 at one end, over which is passed a securing nut 7, the opposite end of the valve terminating in a head 8 about which is looped the central portion of a spring 9, one end or arm of the spring frictionally and yieldingly bearing against a pin or staple 10 on the cutter disk 11 which is secured centrally to said head 8, and the opposite end or arm of the spring being secured by a screw 12 to the burner tube 2. The rear face of the cutter-disk is provided with a pin 13 which arrests movement thereof in one direction by striking the burner tube, the point of arrest corresponding to the normal position of the disk when not in commission.

Secured to the receptacle 3 directly in front of and in proximity to, the cutter disk is a cigar-supporting plate 14 (in the present instance of ornamental design) provided with an inwardly tapering opening or socket 15 for receiving the tip of the cigar C, the cigar tip projecting into the semiannular space 16 cut from the disk and being in the path of rotation of the cutting edge of the knife or cutter 17 secured to the disk on one of the radial webs 18 between one end of the space 16 and the adjacent segmental space 16′. Surmounting the edge of the disk is an index or arrow-head 19 to indicate the direction in which the cutter disk shall be turned to cut off the cigar tip.

Projecting from the rear of the cutter at a point diametrically opposite to the knife or blade 17 is a yielding contact arm or wiper 20 which, with the rotation of the cutter disk to the point where the knife severs the cigar tip (a rotation substantially equal to an arc of 90 degrees), contacts or wipes against a bevel contact head 21 at the end of a rigid arm 22, the latter being either insulated from the burner tube which carries it, or being made of insulating material, the conducting wire *w* leading to any source of electrical energy (not shown) being in electric connection with the head 21. The return wire *w′* may be connected to any conducting portion of the device (which is made of metal). The peripheral wall of the hollow valve 5 which normally shuts off the supply of gas to the burner tip 2′ overlaps the wall of its casing on either side of the passage or bore of the hollow tip 2′ a trifle less than 90 degrees, so that by turning the disk a full 90 degrees by which time the cutting edge of the blade has passed through the tip and severed the same, the passage of the gas past the valve into the burner tip and out through the jet orifice 23 has already taken place. So that the gas begins to escape a trifle in advance of the production of the electric sparks as a result of the rubbing between the contacts 20, 21, which as above stated takes place substantially simultaneously with the cutting off of the cigar tip. The arrow 19 is provided with

a knob 24 by which the disk may be seized and given a turn in the proper direction.

The operation of the device may be described as follows: The cigar is inserted into the socket 15 whose inner edge forms a complementary shearing edge with the cutting edge of the blade 17, and the disk 11 is given a turn of 90 degrees or far enough to cut off the cigar-tip. By that time the valve 5 (which revolves with the disk) will have opened the passage for the gas, the latter escaping through the jet orifice 23 where it is ignited by the electric sparks formed by the contacts between the electrodes 20 and 21. Upon releasing the disk the spring 9 will restore the parts to their normal position, the pin 13 arresting the disk at the proper point of its return movement by striking the wall of the pipe 2.

Having described my invention, what I claim is:

1. In a combined cigar cutter and lighter, a stationary support for the cigar, an oscillating cutter therefor, a lighter, a pipe for conveying gas to the lighter, a gas-valve disposed about the axis of oscillation of the cutter and controlled by the movement of the cutter in one direction, and means for igniting the gas upon its release by the valve, substantially as set forth.

2. In a combined cigar cutter and lighter, a stationary support for the cigar, an oscillating cutter therefor, a lighter, a pipe for conveying gas to the lighter, a gas-valve disposed about the axis of the cutter and actuated to an open position by the movement of the cutter in one direction, and an igniter for the gas operated by the same movement of the cutter, substantially as set forth.

3. In a combined cigar cutter and lighter, a stationary cigar supporting plate having a socket for the insertion of the cigar tip, a spring-controlled cutter-disk oscillating in proximity to the plate, a blade on the disk for severing the cigar tip, a gas burner tube contiguous to the disk, a hollow gas-valve in said tube coupled to the cutter-disk opposite the axis of oscillation of the latter, a burner-tip having a terminal jet orifice, forming an extension of the burner-tube, an insulated arm having a contact head forming a terminal electrode of an electric circuit located in the path of the gas escaping through said orifice, and a wiper or contact arm carried by the cutter-disk and forming the opposite electrode, the parts operating, substantially as, and for the purpose set forth.

4. In a combined cigar cutter and lighter, a gas supply pipe and burner therefor, an oscillating gas-valve, a cutter connected to and oscillating about the axis of the valve and operating the same to an open position with the cutting movement of the cutter and thereby permitting the gas to flow to the burner, and an igniter for lighting the gas in connection with the aforesaid movement of the cutter, substantially as set forth.

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

PHIL J. NAWN.

Witnesses:
EMIL STAREK,
MARY D. WHITCOMB.