

No. 753,672.

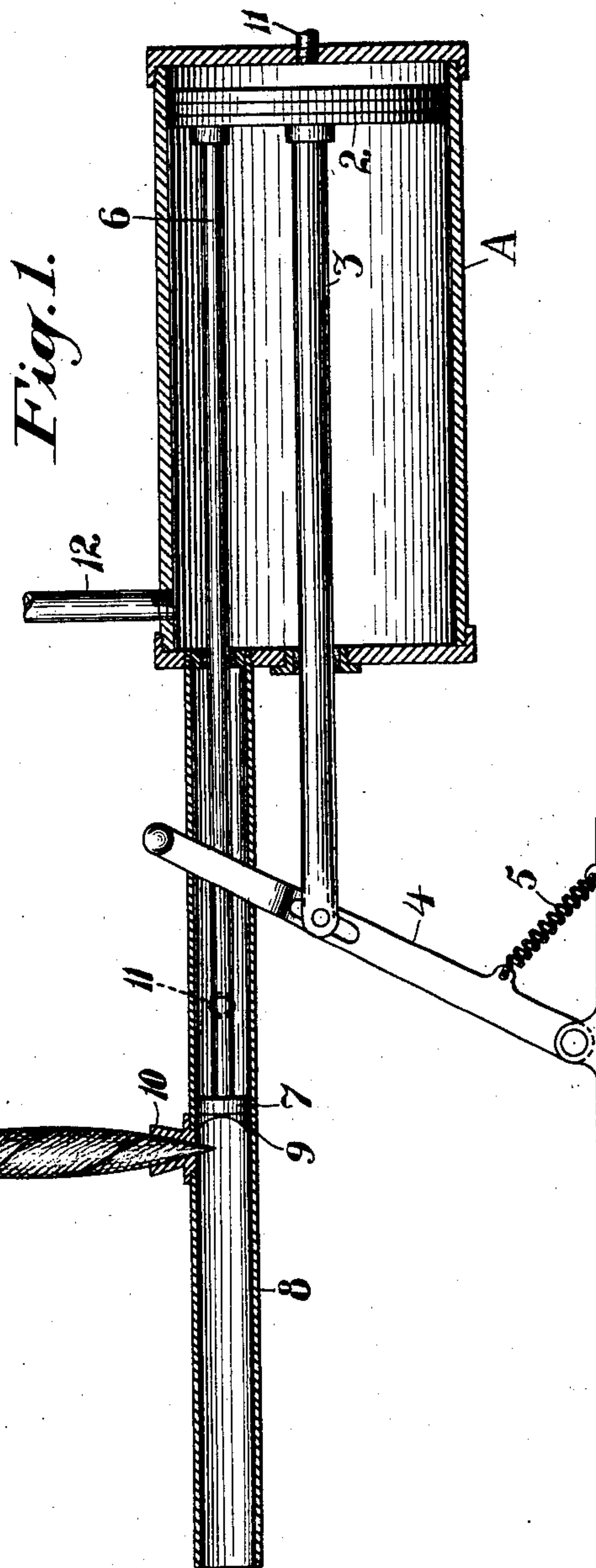
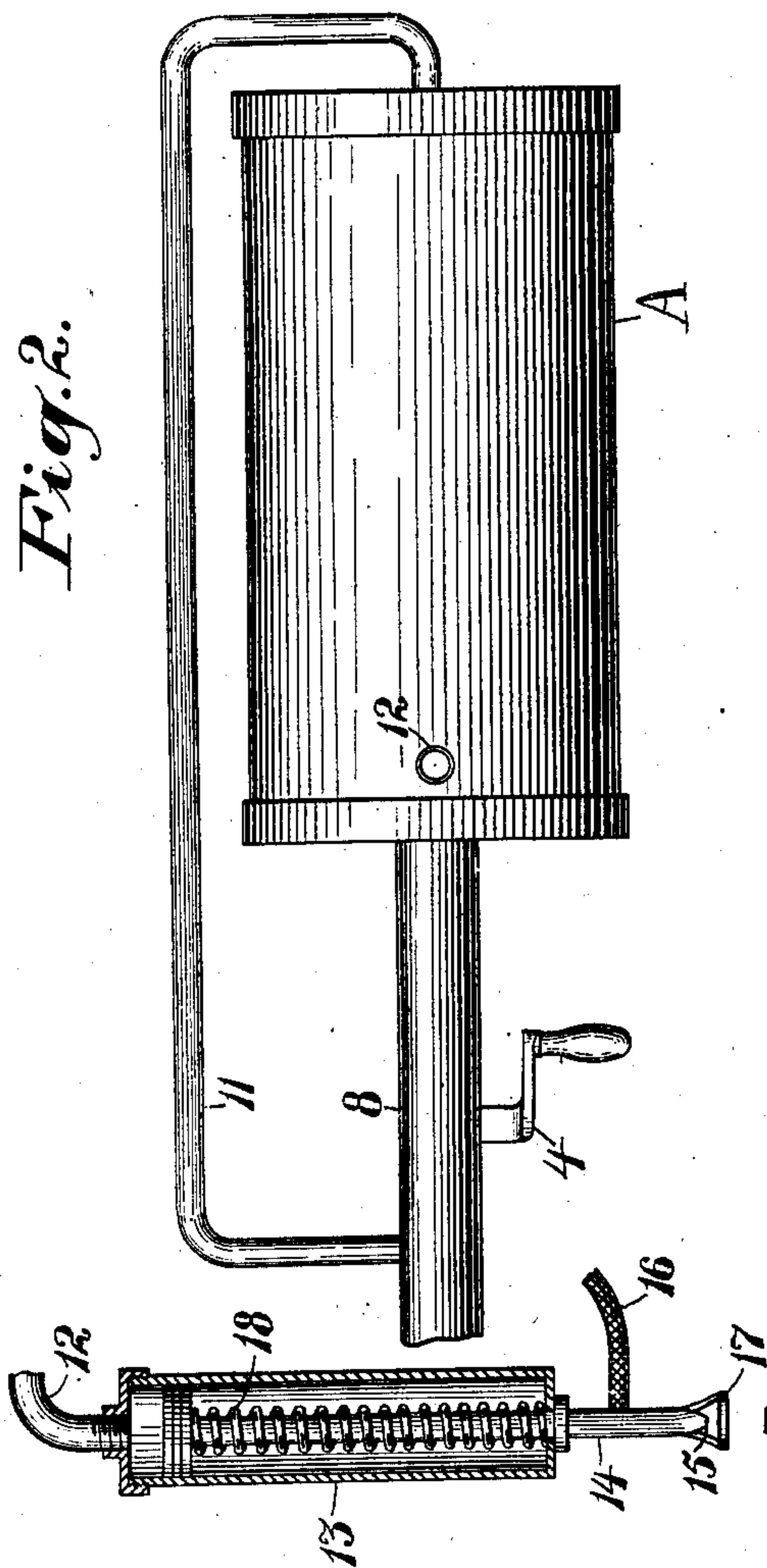
PATENTED MAR. 1, 1904.

W. M. COOMBS & C. C. O'CONNELL.

CIGAR CUTTER AND LIGHTER.

APPLICATION FILED SEPT. 21, 1903.

NO MODEL.



Witnesses:-

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UNITED STATES PATENT OFFICE.

WILLIAM M. COOMBS AND CHARLES C. O'CONNELL, OF SAN FRANCISCO, CALIFORNIA; SAID COOMBS ASSIGNOR TO MINNIE B. COOMBS, OF SAN FRANCISCO, CALIFORNIA.

CIGAR CUTTER AND LIGHTER.

SPECIFICATION forming part of Letters Patent No. 753,672, dated March 1, 1904.

Application filed September 21, 1903. Serial No. 174,007. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM M. COOMBS and CHARLES C. O'CONNELL, citizens of the United States, residing at the city and county of San Francisco, State of California, have invented new and useful Improvements in Cigar Cutters and Lighters, of which the following is a specification.

Our invention relates to improvements in cigar cutting and lighting devices. Its object is to provide an apparatus of simple construction, whereby the tip of the cigar is cut off, a light applied to the cigar, and a suction created mechanically through the cigar to ignite the tobacco, all by a single movement of the operator.

It consists of the parts and the construction and combination of parts, having reference to the accompanying drawings, in which—

Figure 1 is a longitudinal vertical section of my apparatus. Fig. 2 is a plan view of the cylinder.

A represents a cylinder of suitable size and construction, having a piston 2 and a suitably packed piston-rod 3. The outer end of the rod is engaged by a lever 4, by which the piston is reciprocated. A spring 5 keeps the piston-rod in normally retracted position.

6 is a rod secured to the piston 2 and extending through the head of the cylinder and reciprocable in unison with rod 3. Rod 6 is suitably packed, like rod 3, to prevent any leak of air from cylinder A and carries a small piston-plunger 7 on its outer end. The rod and plunger are incased in a tube 8, secured to cylinder A. The plunger carries a cutter 9 on its outer side, which coöperates with the walls of tube-cylinder 8 to sever the cigar-tip when a cigar is inserted into the holder 10.

The space in cylinder A at the back of piston 2 is connected with the space in tube 8 between plunger 7 and the head of cylinder A by a pipe 11, and the space in front of piston 2 communicates through pipe 12 with a cylinder 13, disposed in axial alinement with the holder 10. The tube-cylinder 13 carries a normally retracted spring-pressed piston-rod

14, having a hollow tip portion 15, connecting, through tube 16, with a suitable source of gas-supply.

The conical cigar-holder 10 is tapped into tube-cylinder 8 at such a point as to be immediately in advance of plunger 7 when the latter is in normally retracted position.

In operation a cigar is inserted tip end into holder 10, the space between the holder and jet being sufficient to accommodate cigars of all standard sizes. By an actuation of lever-handle 4 piston 2 is moved to form a compression at the front end of cylinder A and a suction at the rear end, and plunger 7, with its cutter 9, moves across the path of the intruded cigar, cutting off the tip, which is discharged through the open end of tube 8. The compressed air in cylinder A seeks an outlet through pipe 12 into cylinder 13, where it acts on the plunger of rod 14 to reciprocate the rod outward, carrying the lighted jet-tip 15 against the end of the cigar. The jet may be provided with an annular stop projection 17, which engages the cigar and prevents the flame being smothered, at the same time allowing the flame to impinge upon the tobacco. The compression in cylinders A and 13 continues during the time that the operator is drawing handle 4 toward him and holding it and piston-rod 14 against the tension of the respective springs 5 and 18. Meanwhile on plunger 7 having moved across the severed end of the cigar the port leading to pipe 11 is uncovered, and a vacuum in the space behind plunger 7 is created by the action of piston 2 in cylinder A. Since the only inlet to tube-cylinder 8 behind plunger 7 is through the holder and cigar, the flame from the jet-tip is drawn against and into the cigar to light the latter. When a proper "light" is assured, the operator releases lever 4, which flies back to its original position by means of spring 5, and the lighted jet is lifted out of engagement with the cigar by the spring 18. The cigar is thus cut and lighted before ever being inserted into the mouth, and the dust that is often drawn into the mouth on the first few puffs in lighting a

cigar by the old method is here cleared away by the suction of the device.

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

1. In a cigar cutter and lighter, the combination of stationary cigar-holding means; a reciprocating lighter positioned axially in line with said holding means; a reciprocating tip-cutter having a coördinate movement with the lighter; means for operating the cutter and fluid-pressure connections supplied by the cutter-operating means for advancing the lighter to the cigar.

2. In a cigar cutter and lighter the combination with a stationary cigar-holder, and an air-compressor mechanism including a cylinder, a piston and a piston-rod, of a cutter carried by said piston, and a lighting means axially in line with the cigar-holder and operated by a fluid-pressure generated by and during the movement of the piston.

3. In a cigar cutter and lighter, the combination of a cylinder, a piston therein, means for reciprocating the piston, cigar-holding means and cigar-lighting means maintained one axially in line with the other, and a reciprocating cutter, said cutter operatable by the direct movements of the piston and said lighting means operated by a fluid-pressure generated by the piston in advancing the cutter.

4. In a cigar cutter and lighter, the combination of a cylinder, a piston therein, means for reciprocating the piston, cigar-holding means, a cutter and a cigar-lighter reciprocable in unison with the piston and advanced to the cigar by a fluid-pressure generated by the piston during the advance of the cutter.

5. In a device of the character described, the combination with a cigar-holder of lighting mechanism, said mechanism including a reciprocating jet-tip and fluid-pressure means for reciprocating said tip.

6. In a device of the character described, the combination with a cigar-holder, of a cylinder in line with said holder, a piston therein, a piston-rod, means for reciprocating said rod and

a gas-jet attachment on the outer end of said rod.

7. In a device of the character described the combination with a cigar-holder of a cylinder in axial alinement therewith, a piston in said cylinder, a normally retracted piston-rod, igniting means carried by said rod, and means for forcing the piston outward.

8. In a device of the character described, the combination of a cylinder, a piston therein, means for reciprocating the piston, a cigar-holder, cigar-lighting means, connecting-passages with said lighting means and the space on one side of said piston and connecting-passages between the cigar-holder and the opposite side of said piston.

9. In a device of the character described, the combination of a cylinder, a piston therein, a piston-rod, means for reciprocating the latter, a rod secured eccentric to the piston and extending exterior to the cylinder, a plunger upon said exterior portion of the rod, a tubular casing in which said plunger operates, a cutter on said plunger and cigar-holding means in the path of said cutter.

10. In a device of the character described, the combination of a compression-cylinder, a piston therein, means for reciprocating said piston, a tubular casing, a plunger in said casing reciprocable in unison with the piston of the compression-cylinder, a cutter rigid with said plunger, cigar-holding means in the path of the cutter, connecting-passages between the space behind said plunger and the space on one side of the piston of the compression-cylinder and cigar-lighting mechanism operatable by the movements of the piston in said compression-cylinder.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

WILLIAM M. COOMBS.
CHARLES C. O'CONNELL.

Witnesses:

S. H. NOURSE,
JESSIE C. BRODIE.