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COMPLETE SPECIFICATION.

Improvements in or relating to Pipe Lighters.

I, HENRI GUIDO LEMOINE, of 1A, Buissonniere, Perriers-sur-Andelle (Eure) France, a French Citizen, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

It is known how difficult it is to light a pipe with an ordinary lighter owing to the fact that the flame always stands vertically in spite of the fact that the lighter is held in an inclined position. One is therefore compelled to turn the pipe upside down and to place it above the flame, which frequently causes the dropping of particles of tobacco and which also prevents the smoker from watching how the lighting proceeds.

The present invention relates to lighters of the type in which a wick soaked with petrol is ignited by means of a spark produced by a flint or like device; it has for its object an improved lighter which permits to light the pipe in its normal position.

According to the invention, I provide in the casing of a lighter of the type described a little air pump which supplies a nozzle operating at the centre of the wick so that by the operation of the piston of this pump the flame, besides being lengthened is compelled to take the rectilinear direction of the air jet, so that every point of the surface of the tobacco in the pipe may be reached by the flame as desired.

In the preferred manner of carrying out the invention, which is not by any means limitative, the pump consists in a cylinder placed transversely to the casing of the lighter, with a piston which, being flush with one of the faces of the lighter, is placed naturally under one of the fingers of the user, which renders its operation particularly easy. A small tube starting from the cylinder ends in a horizontal nozzle which, passing through the wick carrier, penetrates at the centre of the wick, which is placed horizontally. Owing to this construction, the lighting can be performed by holding the lighter in the usual manner, that is to say vertically,

[Price 1/-]

The appended drawing shows as an example the manner of carrying out the invention.

The single figure of this drawing is a vertical transverse section.

As is seen in this drawing, across the casing 1 of the lighter and at about half its height, is placed a small horizontal cylinder 2 provided with a bottom 3 flush with the wall 4. In this cylinder can move a piston 5 having the shape of a stamped small cup, pressed by a spring 6 against a small shoulder 7 on the cylinder, in such a way that this piston is flush with the other wall 8 of the casing. The suction takes place concentrically to the piston by means of a slight clearance which, besides, facilitates its working.

The vertical axial plane of the cylinder 2 passes preferably through the axis of the wick carrier 9 which, here, has its opening on one side so that the tip of the wick 10 is horizontal.

From the back portion of the cylinder 2 starts a small vertical tube 11 which, passing through the top 12 of the casing, ends in an external pipe connection 13. The latter is superposed to a boss 14 of the wick carrier which is bored axially at 15 in the prolongation of the orifice provided for the wick. The bore 15 is threaded to receive a tubular screw 16 the head 17 of which, coming in position against a packing 18, closes tightly the pipe connection 13, which, on the other hand, presses on a packing 19 inserted between itself and the boss 14.

This screw has, inside the pipe connection, a portion 16^a of lesser diameter, which is provided with orifices 20 allowing the air arriving by the tube 11 to have access to the internal passage of the screw and thereby to a nozzle 21 which is at the end of the said screw.

This nozzle is placed at the centre of the wick and opens near the tip of the latter when the screw is screwed home.

It is easily understood that, the lighter being lit, if the piston 5 is pressed back with the finger, air will be forced to the orifice of the nozzle and will lengthen and bend down the flame with a certain force, increasing its power to light the tobacco,

and that, the lighter being suitably held, one can in this manner attack one after the other, all the reachable surfaces of the tobacco within the pipe without ceasing to hold the latter in the mouth in its normal position.

Besides the lighting taking place completely and perfectly, the fall of particles of tobacco which cannot be prevented with the method hitherto in use, is avoided.

It is understood that the invention is not limited to the manner of carrying it out described and represented, the pump, for example, can be of a more effective type, but thereby less simple, and the wick carrier may be in any direction, the nozzle opening at its centre in any case. It is evident, however, that if, for example, the tip of the wick is vertical as is ordinarily the case, one would be obliged to hold the lighter differently in order to reach the tobacco inside the pipe.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A pipe lighter of the type described characterised by a casing containing an air pump which supplies a nozzle opening at the centre of the wick, so that the air driven out by the said air pump lengthens the flame and bends it according to the direction of the air jet.

2. A pipe lighter as claimed in claim 1, further characterised in that the piston of the pump is arranged so as to be operated by one of the fingers of the hand holding the lighter.

3. A pipe lighter as claimed in claim 1, further characterised in that the pump is placed transversely to the casing and communicates by means of a vertical tube with a horizontal nozzle screwed in the wick carrier, the orifice of which is sideways and directed horizontally.

4. A pipe lighter of the type described, substantially as described with reference to the appended drawing.

Dated this 24th day of January, 1931.
MEWBURN, ELLIS & Co.,
70 & 72, Chancery Lane, London, W.C. 2,
Chartered Patent Agents.

[This Drawing is a full-size reproduction of the Original.]

