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PATENT



SPECIFICATION

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*Complete Left, Sept. 26, 1918.*

*Complete Accepted, Feb. 6, 1919.*

PROVISIONAL SPECIFICATION.

**Improvements in Lighters of the Pocket Kind.**

We, WILLIAM HENRY MOORE, Managing Director of a Limited Company, of 23 & 24, Warstone Lane, Birmingham; and WILLIAM ALLEN TAYLOR, Foreman, of 1, Sandown Grove, Lozells Road, Birmingham, do hereby declare the nature of this invention to be as follows:—

The invention provides the hereinafter described improvements in a lighter of the pocket kind usually used for lighting cigarettes, cigars and pipes.

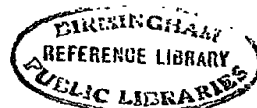
The lighter according to the invention uses petrol or other suitable spirit. The body-part of said lighter is provided by a deep tubular piece permanently closed at the bottom. This body-part forms a petrol container, and within it is pushed right to the bottom a quantity of absorbent cotton. A distance from its open upper end said body-part may be externally provided with a shoulder. Said body-part is preferably formed from a length of circular tube.

The burner-piece of the lighter is also a fairly long tubular structure, open at its lower end, and closed at its upper end except for a very small upwardly projecting wick tube, which is preferably circular and central. This burner-piece for the greater part of its length is adapted to fit tightly within the body-part aforesaid, and for its full length contains absorbent cotton, which also forms the wick entering the wick tube and projecting above, and which cotton also projects beyond the lower end of the burner-piece. When the latter engages the body-part the cotton of the burner-piece contacts the cotton of the body-part, and there is practically a gas-tight joint in the engagement by reason of the long length and the tight push-in fit.

To the upper end of the burner-piece is permanently applied a steel striker-ferrule whose active edge comes slightly above the height of the wick in the wick tube on one side only, said wick tube being in greater part not surrounded by the ferrule. The latter is open-tube like, and is applied to the burner-piece by tightly fitting the upper end thereof and by snapping over a stud carried by said burner-piece, which stud holds the engagement of the ferrule with the burner-piece, but in a detachable manner. The end edge of the ferrule acts as a stop up to which the burner-piece is pushed into the body-part.

A third part of the lighter is a cap also made from a tube-like length closed at its upper end, which cap is adapted to push over the steel ferrule and on to the body-part to effectively enclose the burner and make good joint with the body-part, preferably up to the shoulder, aforesaid, of said body-part. This

[Price 6d.]



cap is provided, preferably on its upper inclined end, with a block of striker compound, of a kind well known, to operate with the steel ferrule by a striking operation to create a sparking sufficient to light the gas at the burner.

The three principal parts of the lighter aforesaid so fit together as to stop evaporation of the spirit, so that only a few spots of petrol are necessary to feed the lighter for two or three days. 5

Combined with the aforesaid pieces, preferably by attachment to the body-part, is a suitable pocket clip, whereby the lighter is held to the pocket in an upright position or thereabouts.

Dated this 25th day of March, 1918.

GEORGE T. FUERY,  
Patent Agent,  
8, Newhall Street, Birmingham.

### COMPLETE SPECIFICATION.

#### Improvements in Lighters of the Pocket Kind. 1

We, WILLIAM HENRY MOORE, Managing Director of a Limited Company, of 23 & 24, Warstone Lane, Birmingham, and WILLIAM ALLEN TAYLOR, Foreman, of 1, Sandown Grove, Lozells Road, Birmingham, 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:—

The invention relates to a lighter of the pocket kind burning petrol or other spirit and in which the pyrophoric material is mounted upon the outside of a detachable cap and the striker ferrule is arranged upon the burner piece concentrically with the wick.

In this type of lighter the invention provides the hereinafter described and claimed constructional features. The body-part of the lighter is tube-like but closed at its bottom: A burner piece, formed of a tube length, detachably fits within the body-part sufficiently far for an effective gas-tight joint, the upper end of this burner piece being formed into a wick tube. This burner piece contains the wick and the major part of the absorbent cotton. A striker ferrule is detachably applied to the upper end of the burner piece. A covering cap fits over the striker ferrule and burner piece and carries a piece of pyrophoric material or striker compound. Absorbent cotton is contained within the bottom of the body-part and also within the burner piece and the wick depends from the wick tube into and through said cotton to be ignited above the wick tube from the striking action of the compound upon the upper edge of the ferrule. Combined with the exterior of the lighter is a limb clip suitable for holding the lighter to the pocket in an upright position.

The invention is represented by the accompanying sheet of drawings.

Fig. 1 is a vertical section of the complete lighter closed.

Fig. 2 is a transverse section of Fig. 1 on the dotted lines A.

Fig. 3 is a transverse section of Fig. 1 on the dotted lines B.

Fig. 4 is a transverse section of Fig. 1 on the dotted lines C.

Fig. 5 is a transverse section of Fig. 1 on the dotted lines D.

Fig. 6 shows a vertical section of the cap separate.

Fig. 7 shows a vertical section of the burner piece and ferrule separate and without the absorbent cotton and the wick.

Fig. 8 is a vertical section of the body part separate and without the absorbent cotton.

Fig. 9 is an elevation of the cap showing the limb clip applied whereby the lighter can be held to the pocket in upright position.

Fig. 10 is an elevation of the ferrule and of the upper end only of the burner-piece.

5 The body part *a* is a tube-like piece permanently closed at the bottom *a*<sup>1</sup>. This part forms a petrol or spirit container and within it is placed a quantity of absorbent cotton. A distance from its open upper end said body part may be externally provided with an annular shoulder *a*<sup>3</sup>.

10 The burner piece *c* is a tube length open at its lower end and closed at its upper end except for the upwardly projecting wick tube *c*<sup>2</sup> which is in any convenient way made a part of said burner piece but is preferably central and circular. This burner piece for the greater part of its length is adapted to fit tightly within the body part *a* and for its full length contains absorbent cotton and also a wick *c*<sup>3</sup> which at its upper end enters the wick tube *c*<sup>2</sup> to project above. When the burner piece *c* engages the body part *a* a tight push-in fit the absorbent cotton of the two parts contact and there is a gas-tight joint in the engagement by reason of the long length with which the burner piece extends into the body part. As an air escape when pushing the burner piece into the body part a groove *c*<sup>4</sup> in the burner piece may be provided.

20 To the upper end of the burner piece is detachably but permanently applied a steel striker ferrule *d* whose active edge *d*<sup>2</sup> comes slightly above the height of the wick in the wick tube. Said ferrule is open tube-like in construction and is applied to the burner piece by tightly clipping the upper end thereof and by snapping over a stud *c*<sup>5</sup> carried by the burner piece, which stud holds the engagement of the ferrule with the burner piece both against rotation and longitudinally. The lower end *d*<sup>3</sup> of the ferrule operates as a stop up to which the burner piece *c* is pushed into the body part *a*.

25 The remaining part of the lighter is a cap *e* also made from a tube-like length closed at its upper end *e*<sup>2</sup> which at *f* is fitted with a block of striker compound well known to operate with the steel ferrule *d* by a striking operation to create a sparking sufficient to light the gas at the burner. This cap pushes over the ferrule *d* and over the upper end of the body part up to the shoulder *a*<sup>3</sup> a tight push-in fit and when in position stops evaporation of the spirit so that only a few spots of petrol are necessary to feed the lighter for two or three days.

30 Combined with the cap *e* is a limb clip *g* fixed to said cap at the one end *g*<sup>2</sup> and operative to hold the lighter closed in upright position within the user's pocket, the fabric of the pocket being gripped between the clip and the cap as usual in holding fountain pens to the pocket.

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

1 A lighter of the kind described comprising a body-part formed by a tube-like piece permanently closed at its bottom, a burner piece which is tubular, contains the wick and the major part of the absorbent cotton, and detachably fits within the body-part by push-in fit sufficiently far for an effective gas-tight joint, a striker ferrule applied to the upper end of the burner piece to be carried thereby, and a covering cap fitting over the ferrule and burner piece and carrying a piece of striker compound, substantially as described.

2. A lighter in accordance with the preceding claim and in which the striker ferrule is detachably applied to the upper end of the burner piece by said ferrule being open tube-like and having a snap action onto the stud carried by the burner piece, substantially as described.

55 3. A lighter in accordance with either of the preceding claims and comprising a body part, burner piece, striker ferrule, and covering cap con-

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structed and applied to each other in the manner substantially as described with reference to the drawings.

4. A lighter in accordance with any one of the preceding claims combined with a limb clip to hold the lighter to the pocket in an upright position, substantially as described.

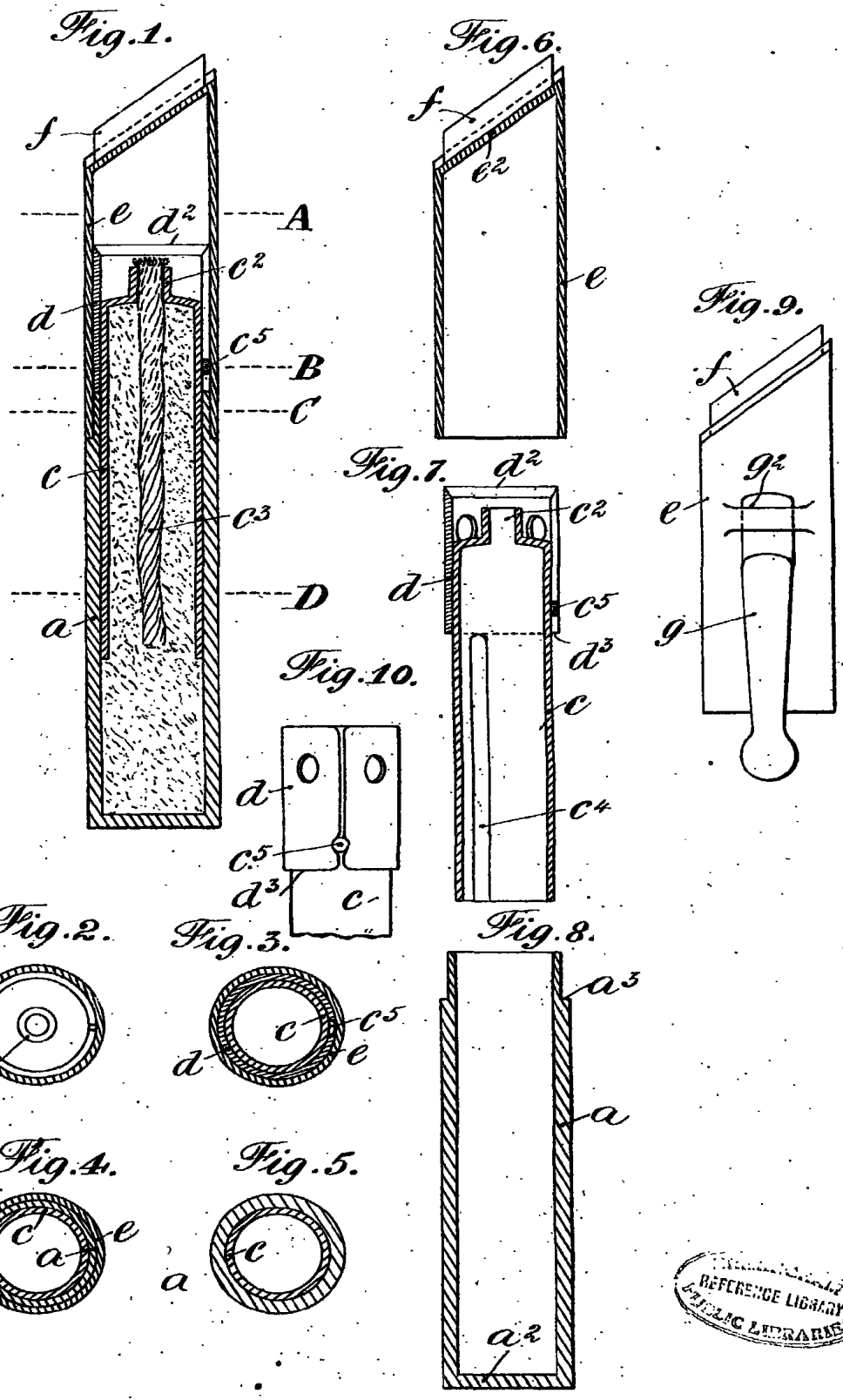
Dated this 25th day of September, 1918.

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8, Newhall Street, Birmingham.

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Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1919.

[This Drawing is a reproduction of the Original on a reduced scale.]



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