

1 JAN. 1931

PATENT SPECIFICATION



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Bibliothèque

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PROVISIONAL SPECIFICATION.

26 JAN. 1931

Improvements relating to Cigarette and like Lighters.

I, EDWIN AUGUSTUS POWER, a British Subject, of 111, Great Hampton Street, in the City of Birmingham, do hereby declare the nature of this invention to be as follows:—

This invention has for its object to provide an improved cigarette or like lighter of the kind in which a rotatable abrasive member is arranged to act on a so-called "flint" adjacent to a wick saturated with petrol or other inflammable spirit. The invention comprises the combination of the rotatable abrasive member with a pivoted cover piece or extinguisher, the said member being actuated by movement of the cover piece.

In one manner of carrying the invention into effect, I provide a forked pillar on the upper side of the body of a lighter, and on this pillar I pivot a cover piece or extinguisher. The cover piece may be arranged to cover or enclose the upper side of a shield arranged around the wick to protect the flame, and is preferably provided on its under side with a short tubular part which can cover the wick.

Coaxially with the pivot pin by which the cover is attached to the pillar, I secure an abrasive member of quadrantal or other convenient form, the periphery being roughened in the usual manner. This member lies in the slot or fork of the pillar and moves with the cover.

The pillar itself is hollow and contains the flint, the pillar being extended through the upper side of the body part to accommodate a sufficient length of flint, the usual adjusting screw being arranged at the lower end of the pillar extension which lies within the body part.

The abrasive member moves with the cover piece or extinguisher, and the lighter is ignited by a sharp opening movement of the cover piece.

The invention is not limited to a lighter provided with a shield around the wick, although it is preferred to use this feature, and other subordinate details may be varied as required.

Dated this 25th day of November, 1929.
MARKS & CLERK.

COMPLETE SPECIFICATION.

Improvements relating to Cigarette and like Lighters.

I, EDWIN AUGUSTUS POWER, a British Subject, of 111, Great Hampton Street, in the City of 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:—

This invention has for its object to provide an improved cigarette or like lighter of the kind in which a rotatable abrasive member is arranged to act on a so-called "flint" adjacent to a wick saturated with petrol or other inflammable spirit.

In a previously known construction an abrasive member of circular form has been mounted on the pivot of a cover piece, which cover piece was adapted for direct operation by the user's thumb or finger. In this construction the abrasive member was secured to the cover piece

[Price 1/-]

by a pin arranged parallel with the axis of the pivot pin. In another construction there was mounted on the pivot pin of a pivoted cover piece an abrasive member of segmental form presenting a flat edge which by its co-operation with the underside of the cover piece served to effect the required driving connection between the cover piece and abrasive member; in this form the cover piece was actuated by a separate finger lever in pivotal connection with the cover piece. By the present invention we are able to provide a lighter of simple construction which combines the advantageous features of the previously known lighters above described.

The invention comprises the combination of a pivoted cover piece adapted for direct manipulation by the user, and an abrasive member of quadrantal form mounted on the pivot pin of the cover piece, and arranged in driving connection with the cover piece.

In the accompanying sheet of explanatory drawings:—

Figure 1 is a side elevation of a cigarette or like lighter constructed in accordance with this invention.

Figure 2 is a side elevation with the upper part in section, and Figures 3 and 4 are opposite end views of the lighter.

In carrying the invention into effect as shown, I provide a forked pillar *a* on the upper side of the body *b* of the lighter, and on this pillar I pivot a cover piece or extinguisher *c*. The cover piece may be arranged to cover or enclose the upper side of a shield *d* arranged around the wick *e* to protect the flame, and is provided on its under side with a short tubular part *f* which can cover the wick. Coaxially with the pivot pin *g* by which the cover is attached to the pillar, I secure an abrasive member *h* of quadrantal form, the periphery being roughened in the usual manner. This member *h* lies in the slot or fork of the pillar *a* and moves with the cover *c*. One edge of the abrasive member lies along the underside of the cover piece as shown & thus affords the required driving connection between the parts.

The pillar *a* itself is hollow and contains the flint *i*, the pillar being extended through the upper side of the body part *b*, to accommodate a sufficient length of flint, the flint is held against the abrasive member *h* by a spring *j* located in the hollow pillar *a* and secured and adjusted by the screw *k* at the lower end of the pillar.

As stated above the abrasive member *h* moves with the cover piece or extin-

guisher *c*, and the lighter is ignited by a sharp opening movement of the cover piece, for effecting which a finger piece *l* is formed on the cover piece.

The invention is not limited to a lighter provided with a shield around the wick, although it is preferred to use this feature. If a flame shield is provided, however, as shown in the drawings, it is convenient to make the shield *d* detachable from the body *b*, so that the lighter can more easily be used for lighting a pipe, or a gas jet. In the lighter illustrated, the shield *d* is provided with turned over edges *m* for detachable engagement with a bead *n* on the upper side of the body part *b*. The shield is removed or replaced by sliding it along the upper side of the body part.

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 I am aware of Specification No. 311,975, and I make no claim to anything described therein, but what I claim is:—

1. In a cigarette or like lighter of the kind specified, the combination of a pivoted cover piece adapted for direct manipulation by the user, and an abrasive member of quadrantal form mounted on the pivot pin of the cover piece and arranged in driving connection with the cover piece, substantially as described.

2. A cigarette and like lighter as claimed in Claim 1, and comprising the combination and arrangement of parts, substantially as described and illustrated.

Dated this 11th day of July, 1930.

MARKS & CLERK.

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

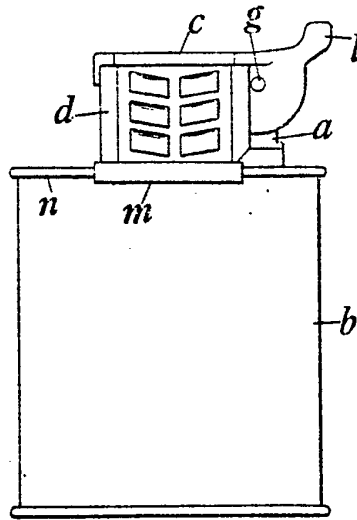


Fig.1

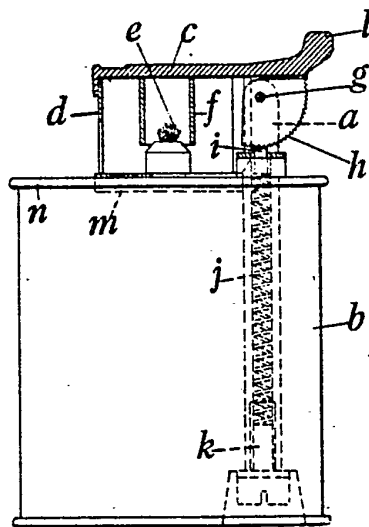


Fig.2

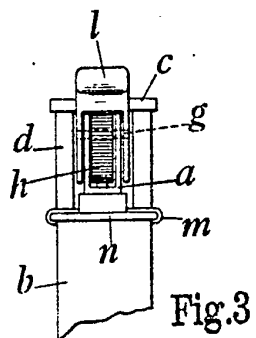


Fig.3

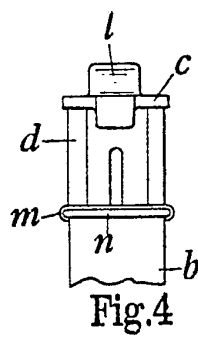


Fig.4