

PATENT SPECIFICATION



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PROVISIONAL SPECIFICATION.

Improvements in Smokers' Petrol Lighters.

We, FREDERICK CHARLES WISE, WILLEY GREENWOOD, and FREDERICK CHARLES GENDERS, all of 5 and 7, Johnson Street, Notting Hill Gate, London, W. 8, British subjects, do hereby declare the nature of this invention to be as follows:—

This invention relates to a smoker's petrol lighter of the kind comprising a casing provided with a wick tube and with an ignition element, and the invention consists in combining a lighter of this kind with a flame-regulating device in the form of a hand wheel which is mounted on the wick tube and which operates one or a plurality of spur wheels arranged so as to engage the wick for moving the latter up and down the tube. The hand wheel and the spur wheels

are mounted on a spindle which is preferably housed in a sleeve, the latter being incorporated with the wick tube and arranged at right angles to the same. The sleeve may be closed at one end and furnished at the other end with a gland which holds the spindle in position.

Where the wick receives its petrol supply from a filling material such as cotton-wool the casing is provided with a cage adapted to retain a portion of the wick under the wick tube and prevent the cotton-wool from being drawn into the tube so as to foul the flame regulator.

Dated this 24th day of October, 1927.
HANS & DANIELSSON,
321, St. John Street, London, E.C. 1,
Registered Patent Agents.

COMPLETE SPECIFICATION.

Improvements in Smokers' Petrol Lighters.

We, FREDERICK CHARLES WISE, WILLEY GREENWOOD, and FREDERICK CHARLES GENDERS, all of 5 and 7, Johnson Street, Notting Hill Gate, London, W. 8, British subjects, 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 relates to a smoker's petrol lighter of the kind comprising a casing provided with a wick tube and with an ignition element, and the invention consists in combining a lighter of this kind with a known type of flame regulating device in the form of a hand wheel which is mounted on the wick tube and which operates by means of a spindle one or a plurality of spur wheels arranged so as to engage the wick for moving the latter up and down the tube.

The invention is illustrated in the accompanying drawing which represents a part section of the lighter.

The lighter comprises a casing *a* which supplies petrol to a wick *b* and which carries an abrasive wheel *c* and a flint *d*

whereby the wick can be ignited. The wick is fed through a wick tube *e* which, according to the invention, is incorporated with a transversely arranged sleeve *f* containing a spindle *g*. One end of the sleeve is closed and the other open. The spindle is supported on the one hand in a recess in the closed end of the sleeve and on the other hand in a gland *h* which screws into the open end of the sleeve. The spindle projects through the gland and carries at its outer end a hand wheel *i* whereby it can be turned. It is also fitted with one or a plurality of spur wheels *k* arranged so as to engage the wick *b* and move it in known manner up and down the tube when the spindle is turned, for regulating the flame.

Mounted inside the casing *a* is a cage *l* through which the wick passes and in which a portion of the wick is coiled up. By this arrangement the cotton wool *m* which holds the petrol charge in the casing, is prevented from being drawn into the wick tube *e* so as to foul the flame regulator.

Having now particularly described and

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

5 1. The combination with a petrol lighter of the kind referred to, of a flame regulating device in the form of a hand wheel which is mounted on the wick tube and which operates by means of a spindle
10 one or a plurality of spur wheels arranged so as to engage the wick for moving the latter up and down the tube.

15 2. A petrol lighter with a flame regulating device according to Claim 1 wherein the spindle is held in a sleeve which is closed at one end and fitted at the other end with a gland.

3. A petrol lighter with a flame regulating device according to Claim 1 or 2 and wherein the casing contains cotton wool whereby the wick is supplied with petrol, comprising a cage arranged in the casing and adapted to retain a portion of the wick coiled up under the wick tube and prevent the cotton wool from being drawn into the tube so as to foul the flame regulator. 20 25

Dated this 24th day of July, 1928.

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

