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PATENT



SPECIFICATION

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PROVISIONAL SPECIFICATION.

Improvements in Cigar and Pipe Lighters.

I, ALFRED RICHARD WALTER, of Park View, Church Lane, Ealing, in the County of London, Optician, do hereby declare the nature of this invention to be as follows:—

This invention has reference to cigar and pipe lighters of the kind in which a cord or strip of tinder is ignited by a spark obtained by turning a toothed or milled steel wheel against a flint of pyrophora.

Such lighters as hitherto made usually comprise a tubular body to the outside of which is secured the ignition device and through which is passed the tinder cord; the latter has hooked to it one end of a chain the other end of which is attached to a ball designed to close the upper end of the tubular body when the tinder cord is withdrawn within the said body.

Now, according to my invention a length or cartridge of the tinder cord, instead of passing through the tubular body of the device, is carried in a cylindrical holder which slides or telescopes in the said body and to which the inner end of the ball chain is attached. To prevent the chain from catching in the upper end of the body and thus preventing the withdrawal of the cylindrical holder I advantageously split the upper end of the cylindrical holder in order to enable it to yield to permit of the passage of the chain.

In practice the lower or trumpet end of the cylindrical holder may be open or closed. In either case petrol or other spirit may be introduced into the holder, the tinder cord serving as a wick. With this form of lighter, therefore, when the petrol has been consumed or partly consumed the tinder ignites in the usual way and the lighter can thus be used alternatively as a tinder light in the wind or as a flame light indoors whilst any vapour remains in the wick or a supply of petrol is accessible.

The ignition wheel is mounted as usual upon the upper end of a tube secured to the outside of the body of the lighter end containing the flint which is held against the wheel by means of a spring. This spring is enclosed in the tube and is held therein by a cover or cap closing the lower end of the tube and advantageously comprising a bifurcated pin having a head, one of the legs of the pin being bent outwards so as to engage a slot in the tube when the pin is inserted in the end of the latter.

The trumpet or expanded end of the cylindrical holder is advantageously made with two holes, one serving for the attachment of a guard chain and the other, which extends obliquely through the holder, for the insertion of a pin designed to prevent the tinder cord, where a long length passing through the holder is used, from being pulled out.

The lower end of the tubular body may be split in say six places and the

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divisions are bent or sprung inwards, so as to provide a spring or gripping action upon the sliding cylinder.

Dated the 11th day of June, 1918.

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COMPLETE SPECIFICATION.

Improvements in Cigar and Pipe Lighters.

I, ALFRED RICHARD WALTER, of Park View, Church Lane, Ealing, in the County of London, Optician, 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 reference to cigar and pipe lighters of the kind in which a cord or strip of tinder is ignited by a spark obtained by turning a toothed or milled steel wheel against a flint of pyrophora.

Such lighters as hitherto made usually comprise a tubular body to the outside of which is secured the ignition device and through which is passed the tinder cord; the latter has hooked to it one end of a chain the other end of which is attached to a ball designed to close the upper end of the tubular body when the tinder cord is withdrawn within the said body.

Now, according to my invention a length or cartridge of the tinder cord, instead of passing through the tubular body of the device, is carried in a cylindrical holder which slides or telescopes in the said body and to which the inner end of the ball chain is attached. To prevent the chain from catching in the upper end of the body and thus preventing the withdrawal of the cylindrical holder I advantageously split the upper end of the cylindrical holder in order to enable it to yield to permit of the passage of the chain.

In practice the lower or trumpet end of the cylindrical holder may be open or closed. In either case petrol or other spirit may be introduced into the holder, the tinder cord serving as a wick. With this form of lighter, therefore, when the petrol has been consumed or partly consumed the tinder ignites in the usual way and the lighter can thus be used alternatively as a tinder light in the wind or as a flame light indoors whilst any vapour remains in the wick or a supply of petrol is accessible.

The ignition wheel is mounted as usual upon the upper end of a tube secured to the outside of the body of the lighter end containing the flint which is held against the wheel by means of a spring.

The lower end of the tubular body may be split in say six places and the divisions bent or sprung inwards, so as to provide a spring or gripping action upon the sliding cylinder.

In the accompanying drawing—

Figure 1 is a side view of one form of cigar and pipe lighter constructed according to the invention.

Figure 2 is a view at right angles to Figure 1.

Figure 3 is a sectional side view of the lighter, and

Figure 4 is a view of a detail hereinafter described.

a indicates the tubular body of the lighter and *b* the cylindrical holder into which is inserted a length of tinder cord *c* and which is arranged to telescope into the tubular body *a*, the lower end of which is split at, say, six points, as indicated at *d* Figures 1 and 2, in order to cause the said body *a* to grip the

cylindrical holder *b* with the necessary tension. *e* is the ball designed to close the upper end of the body *a* and which is held in place by means of the chain *f* one end of which is secured to the said ball and the other end to a spring tongue *g* formed on the upper end of the cylindrical holder *b*, as shown in Figure 3 and in the detail view Figure 4, the spring tongue serving, as described, to permit the free passage of the chain within the body.

The lower or flared end of the cylindrical holder *b* may be either open or closed. In the construction illustrated it is shown closed by means of the screw plug *h* which is furnished with an eye *i* by which it can be fitted to a guard chain if desired.

The tubular body *a* has fitted to it the ignition device which comprises the serrated ignition-wheel *j* pivotally mounted at *k* upon the upper end of the tube *l* which contains the flint *m*. The latter is held in frictional engagement with the wheel *j* by means of the plunger *n*, the rod *o* of which has coiled around it a spring *p*. The lower end of the rod *o* is bent outwards and passes through the slot *q* in the tube *l*, the projecting portion *r* serving as a handle by means of which the plunger *n* can be depressed in the said tube for the purpose of renewing the flint when necessary, an opening *s* being formed in the upper part of the tube *l* to allow of the removal of the used flint and the insertion of a fresh one.

As above described the tinder cord *c* may be impregnated with petrol both when the holder *b* is open and closed at the lower end. The lighter can thus be used either as a flame light or as a tinder light according as there is or is not petrol in the cord *c*.

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 cigar and pipe lighter of the kind herein referred to wherein the tinder cord is carried in a holder which slides telescopically in the body of the lighter, substantially as hereinbefore described.

2. A cigar and pipe lighter of the kind claimed in the preceding claiming clause wherein the lower end of the sliding tinder holder is closed as herein described.

3. A cigar and pipe lighter consisting of the parts constructed and arranged substantially as hereinbefore described and illustrated in the accompanying drawing.

Dated the 11th day of December, 1918.

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

