

VOID: SEALS AND FEE NOT PAID.

115,383

PATENT



SPECIFICATION

Application Date, Dec. 10, 1917. No. 18,278/17.

Complete Left, Feb. 20, 1918.

Complete Accepted, May 9, 1918.

PROVISIONAL SPECIFICATION.

Improvements in or relating to Gas-lighters.

I, JOHN NEWMAN WAITE, of 47, Selsdon Road, West Norwood, S.E., Engineer, do hereby declare the nature of this invention to be as follows:—

This invention relates to lighters particularly for lighting gas jets and rings for domestic purposes but of course may be used for other purposes.

5 The object of the invention is to provide an improved device and ready means whereby gas may be ignited without the use of matches.

A lighter made in accordance with this invention consists of a skeleton frame, one side of which is adapted to be pressed into rubbing contact with a roughened surface on the said frame.

10 For example the skeleton frame may consist of a single piece of bent wire substantially rectangular in shape. The wire is coiled at the bottom in order to form a spring. At the top is provided a striking surface against which the free side of the frame is adapted to be rubbed in order to create a spark.

15 The striking surface may consist of roughened steel, carborundum or like hard surface and the extremity of the free side of the frame may be fitted with a piece of flint carborundum or the like.

The striking surface may be roughened on one or both sides and the flint on the free side may protrude either side thereof.

20 The normal position of the free side is slightly out of alignment with the striking surface and when it is desired to create a spark the free end is pressed sharply against the roughened surface.

The free end being sprung returns to its normal position when released.

A lighter made in accordance with this invention can be manufactured in all sizes very cheaply and will be effective for a considerable period.

25 Dated the 10th day of December, 1917.

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Chartered Patent Agents.

COMPLETE SPECIFICATION.

30 Improvements in or relating to Gas Lighters.

I, JOHN NEWMAN WAITE, of 47, Selsdon Road, West Norwood, S.E. 27, Engineer, do hereby declare the nature of this invention and in what manner

[Price 6d.]



the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to lighters particularly for lighting gas jets and rings for domestic purposes but of course may be used for other purposes.

The object of the invention is to provide an improved device and ready 5 means whereby gas may be ignited without the use of matches.

A portable pyrophoric gas lighter made in accordance with this invention consists of a skeleton frame, one side of which is adapted to be pressed into rubbing contact with a roughened surface on the said frame.

The invention will now be described with reference to the accompanying 10 drawings in which Figure 1 is a front view of one form of lighter made in accordance with this invention; Figure 2 is a side view thereof and Figure 3 is a front view of a modified construction of lighter.

The skeleton frame consists of a single piece of bent wire *a* substantially rectangular in shape. The wire is coiled at *b* in order to form a spring. At 15 the top is provided a striking surface *c* against which the free side *d* of the frame *a* is adapted to be rubbed in order to create a spark.

The striking surface *c* in these examples consists of roughened steel, but carborundum or other like hard surface may be provided in place thereof.

At the extremity of the free side *d* of the frame is fitted a piece *e* of ferro- 20 cerium, flint, carborundum or the like.

The striking surface may be roughened on both sides and the flint or the like may project on both sides thereof.

In the modification shewn in Figure 3 only a portion of the surface *f* is roughened as at *g* and the extremity *h* of the surface *f* is bent at right angles 25 in order to limit the movement of the free side *d*.

In order to create a spark the free side *d* is pressed sharply against the roughened surface *c* or *g*, and on release returns to its normal position.

A lighter made in accordance with this invention can be manufactured in 30 all sizes very cheaply and will be effective for a considerable period.

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 portable pyrophoric gas lighter consisting of a skeleton frame, one side of which is adapted to be pressed into rubbing contact with a roughened surface 35 on the said frame.

2. A portable pyrophoric gas lighter constructed substantially as described with reference to the accompanying drawings.

Dated the 20th day of February, 1918.

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

Fig 1.

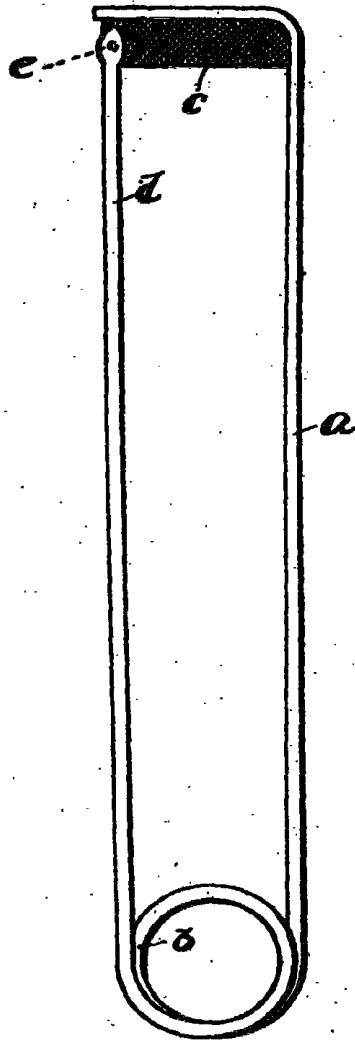


Fig 2.



Fig: 3.

