

120,234

PATENT



SPECIFICATION

Application Date, Apr. 6, 1918. No. 14,565/17.

Complete Accepted, Nov. 7, 1918.

COMPLETE SPECIFICATION.

Improvements in Lighters for Lamps, Tobacco Pipes and for other similar purposes.

I, FREDERICK WILLIAM BELL, of 97, Lambert Street, Hyson Green, Nottingham, Mechanic, 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:—

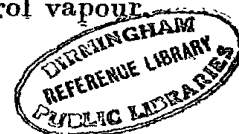
5 This invention relates to improvements in lighters of the type used by smokers and which can also be used for lighting lamps and for other similar purposes, and has reference to lighters provided with a reservoir for petrol or the like and a wick which is ignited by a spark obtained the automatic rotation of a wheel in contact with a piece of flint, and in which such wheel is rotated
10 by the lid. The present invention has for its object improvements in the construction and simplification of the spark producing mechanism and in the general construction of the lighter.

In the accompanying drawing:—

15 Fig. 1 is a longitudinal section of the improved lighter, and
Fig. 2 is a part transverse section of the same.

According to this invention the improved lighter has an outer casing 1 the lower part of which is filled with cotton wool 2 or the like and this is saturated with petrol or its equivalent and forms the reservoir of the lighter. At the upper part of the casing 1 there is an inner casing 3 which is a sliding fit in
20 the outer casing and is easily removable therefrom. At the front of the inner casing there is a slot within which the spring catch 4 for the lid 5 is attached. On the top of the inner casing there is a tube 6 for the wick 7 and another tube 8 for a flint 9 which is pressed into contact with the sparking wheel 10 by a spring 11. The inner casing is also provided with side lugs 12 which
25 form bearings for the axle 13 upon which the sparking wheel 10 is mounted, and this wheel and the lid 5 turn with the axle. In one arrangement the wheel is solid with the axle and the ends of the axle are reduced to fit holes in the lugs 12. The sparking wheel 10 is provided with teeth 14 on part of its circumference and at the back has a flat 15 which fits against the inside of
30 the lid and by which the lid turns with the wheel as it moves to its open position, and for so turning the lid there is a spring 17, one end of which rests upon the top of the inner casing and the other end against the inside of the lid. The spring shown is wrapped round one end of the axle 13 and is then passed through a hole in the wheel and afterwards wrapped round the other
35 end of the axle. The lid is also provided with a cowl 16 which encloses the wick when the lid is closed and prevents evaporation of the petrol vapour.

[Price 6d.]



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. In a lighter of the type herein referred to the combination of an outer casing forming a reservoir, an inner casing slidably attached to such outer casing, lighting mechanism carried by such inner casing and a sparking wheel with a flat at the back fitting against the inside of the lid substantially as herein set forth. 5

2. A lighter in two parts constructed, arranged and operating substantially as herein described with reference to the accompanying drawing. 10

Dated the 4th day of April, 1918.

W. H. POTTER, M.I.Mech.E.,
Patent Agent,
Albert Street, Nottingham,
Agent for the Applicant. 15

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

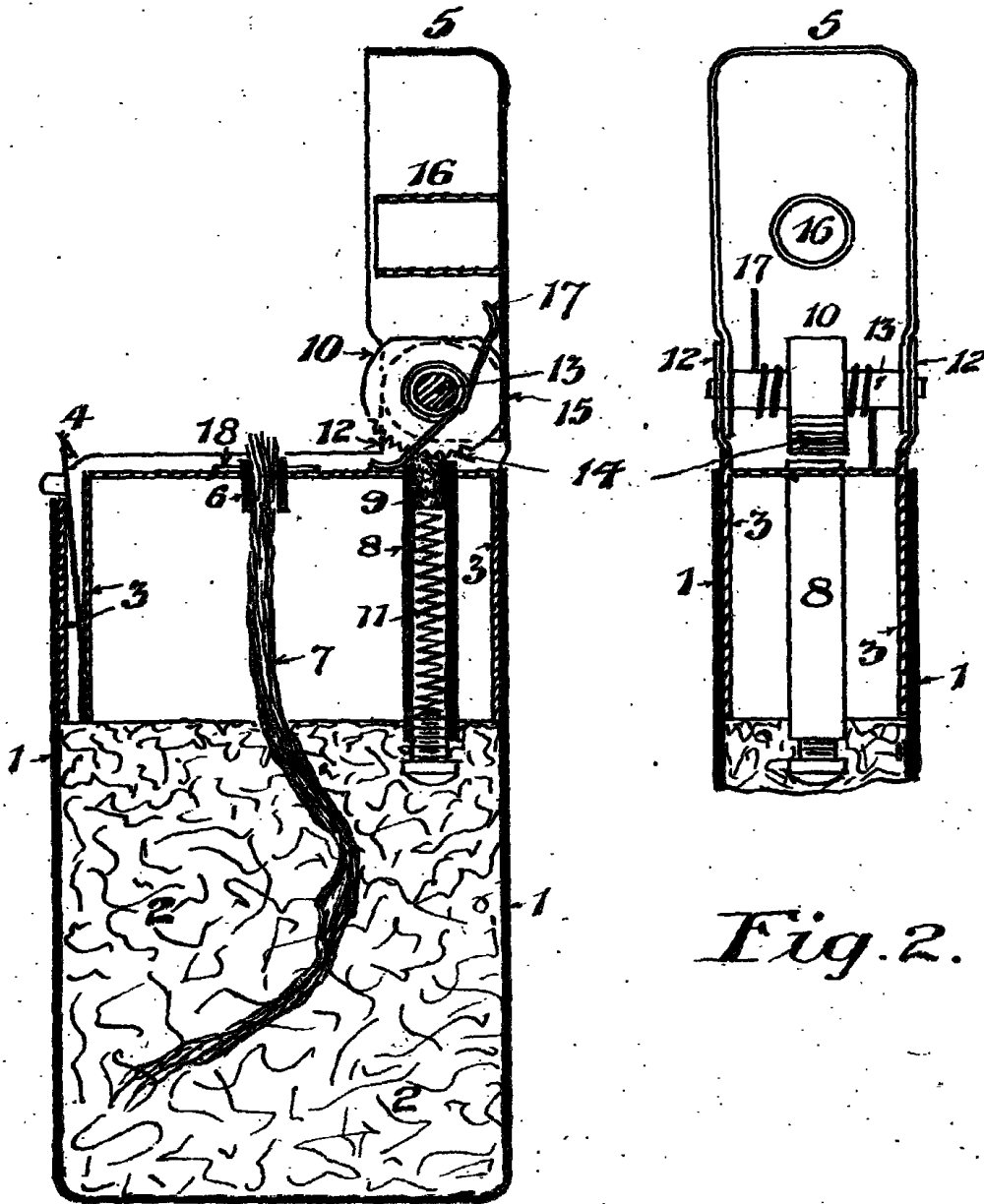


Fig. 1.

Fig. 2.

