

RESERVE COPY

PATENT SPECIFICATION



Application Date: May 5, 1939. No. 13536/39.

520,571

Complete Specification Accepted: April 26, 1940.

COMPLETE SPECIFICATION

Improvements in Pyrophoric Lighters for Cigarettes and the like

We, BARNETT PEARLMAN, of 20, The Ridgeway, Golders Green, London, N.W.11, and JOHN HENRY COLLINS, of 59, Southwood Lane, Highgate, London, N.6, both 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 pyrophoric lighter for cigarettes and the like, of the kind in which a pivotally mounted arm, carrying an extinguisher that normally covers the wick, is articulated with a second arm adapted to be manually actuated to cause the extinguisher to be moved away from the wick against the action of a spring which returns the arms to their initial positions, a striking wheel being also rotated during movement of the extinguisher away from the wick.

According to this invention the second arm of the lighter is pivotally carried upon a lever that has attached thereto, adjacent the pivot of the second arm, one end of a helical spring that has its other end suitably anchored whereby it tends to move the lever towards a vertical position relatively to the initial position of the second arm.

The invention is illustrated by way of example in the accompanying drawing, in which

Figure 1 is an elevation, partly in section, of a pyrophoric lighter, in its normal position, and

Figure 2 is an elevation thereof, partly in section, with the extinguisher moved away from the wick.

As shown, the pyrophoric lighter comprises an arm 2 carrying an extinguisher 1 and being pivotally mounted on a pin 3 supported by a member 5. Likewise a striking wheel 4, suitably actuated, is carried upon the pin 3. In this case, however, a second arm 11, which is adapted to be manually actuated, is pivotally mounted at 12 upon a lever 13, itself pivotally mounted at 14 between the parallel limbs of the member 5. The arm 11 has a bifurcated end consisting of two limbs 15 disposed one on each side

of the arm 2 and connected thereto by pins 16 which permit of relative movement of the arm 2 and the limbs 15 about the said pins 16. The lower side of each limb has a recess 17 that registers with the pin 3, when the members of the lighter are in their normal positions. Extending between a finger 18 on the member 5 and a stud 19 on the lever 13 adjacent the pivot 12 is a helical spring 20 which tends to move the lever counter-clockwise towards a vertical position. When a downward pressure is applied to the arm 11 a movement takes place of the lever 13 about its pivot 14 whereby the end of the arm 11 adjacent its pivot 12 is depressed and simultaneously moved further away from the striking wheel 4, the spring 20 being thereby stressed. This movement of the lever causes the recesses 17 to be moved out of register with the pin 3, thereby initiating a raising of the end of the arm 11 adjacent the striking wheel. Such raising of one end of the arm 11 aids in the initial movement of the arm 2 which is thereafter pulled by the arm 11 into the position shown in Figure 4. By releasing the pressure exerted on the arm 11 the spring 20 moves the arms 2 and 11 to their initial positions.

It can thus be seen that with pyrophoric lighters according to this invention the movement of the extinguisher away from the wick and its return movement to cover the wick are controlled in a simple manner merely by exerting pressure on the second arm or by removing such pressure.

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

1. A pyrophoric lighter of the kind specified, wherein the second arm is pivotally carried upon a lever that has attached thereto, adjacent the pivot of the second arm, one end of a helical spring that has its other end suitably anchored whereby it tends to move the lever towards a vertical position relatively to the initial position of the second arm.

55
60
65
70
75
80
85
90
95
100
105

2. A pyrophoric lighter as claimed in Claim 1, wherein the second arm is provided with a recess that normally is in register with a pin upon which the first arm is pivotally mounted, but is moved out of register with the pin upon manual actuation of the second arm to initiate a lifting movement of the extinguisher away from the wick.
- 5 3. A pyrophoric lighter as claimed in Claim 1, wherein the second arm has a bifurcated end portion, the limbs of which extend one on each side of the first arm.
- 10 4. A pyrophoric lighter as claimed in Claim 1 or in Claim 2, wherein the two arms are connected together by pins which allow of relative movement of the arms about said pins.
- 15 5. The form of pyrophoric lighter constructed, arranged and operating substantially as described with reference to the accompanying drawing.
- 20

Dated this 5th day of May, 1939.

D. YOUNG & CO.,
11 & 12, Southampton Buildings,
London, W.C.2,
Agents for the Applicants.

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

