

140,346

PATENT



SPECIFICATION

Convention Date (France), Mar. 22, 1919.

Application Date (in the United Kingdom), Nov. 11, 1919. No. 27,904/19.

(Patent of Addition to No. 129,653. Convention Date (France), July 12, 1918).

Complete Accepted, Mar. 25, 1920.

COMPLETE SPECIFICATION.

Improvements in Electric Lighters.

I, **BENOIT LOUIS DÉCHELLE**, a citizen of the French Republic, of 3, rue de Marseille, Lyons, France, Manufacturer, 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 consists in improvements in, or modifications of, the invention described in the Specification filed with my Application for Letters Patent No. 129,653 dated 11th July, 1919, and the object of the invention is to simplify the construction of the apparatus and improve its efficiency.

The invention is illustrated in the annexed drawing, in which

10 Fig. 1 is an elevation of the apparatus, partly in section, Fig. 2 a plan view, partly in section, and Fig. 3 a view of the friction rod.

According to the invention the spirit container, instead of being outside the box or casing *a*, is placed within the upper part of the said casing, the latter having at the top a hole through which the container is inserted. The container consists of an outer cylinder *c*¹, closed at the bottom, and an inner concentric tube *c*² which fits tightly in a hole in a cover *c*⁴ near the top of the container and terminates a short distance from the bottom thereof. An annular chamber *c*³ is thus formed in the container under the cover *c*⁴, and this chamber and the space left below the tube are filled with cotton or other absorbent material, packed more closely at the bottom than at the top. This absorbent material is saturated with spirit poured into the container through the tube *c*². The cover *c*⁴ has an air hole normally closed by a screw *k*, the latter being removed while the spirit is poured in. The container has a dished cover *l* having a central hole for the upper end of the tube *c*², upon which the collar *f*¹ of the friction rod rests when the rod is inserted into the tube.

The lower tubular part *f*² of the friction rod, containing the wick, has a longitudinal slot and is embraced by a sliding ring *f*³, which has an inwardly directed pin or spike projecting through the slot and engaging the wick, so that the wick can be adjusted by moving the ring.

30 The core of the coil *d* is a soft iron bar *d*², instead of a bundle of rods of iron, and the coil is fixed vertically in the casing by means of a white metal bracket *d*³ soldered to the wall of the casing.

The holder *i* of the grid is fixed to flanges *m* of the casing, by means of four screws *p*, instead of being held by a spring.

[Price 1/-]



The binding posts for the electric wires are screws *n*, each having on it two nuts *o*, *o*¹ for gripping the wire between them.

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. The modification of the electric lighter described in my prior specification cited, wherein the spirit container is disposed within the upper part of the casing, said container consisting of an outer cylinder having a floor and cover and a tube depending into the said cylinder through a hole in said cover.

2. The modification of the electric lighter described in my prior specification cited, wherein the tubular friction tube has a longitudinal slot and carries a sliding ring having a pin or spike entering said slot and engaging the wick.

3. The modification of the electric lighter described in my prior specification cited, wherein the core of the coil is a bar of soft iron and the coil is held in the casing by a bracket soldered to the wall of the casing.

4. The modification of the electric lighter described in my prior specification cited, wherein the holder of the grid is fixed by screws to flanges of the casing.

5. The modification of the electric lighter described in my prior specification cited, wherein the terminals are screws with nuts thereon for gripping wires.

Dated this 11th day of November, 1919.

For the Applicant,

HERBERT HADDAN & Co.,
Chartered Patent Agents,
31 & 32, Bedford Street, Strand, W.C. 2, London.

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

FIG. 1

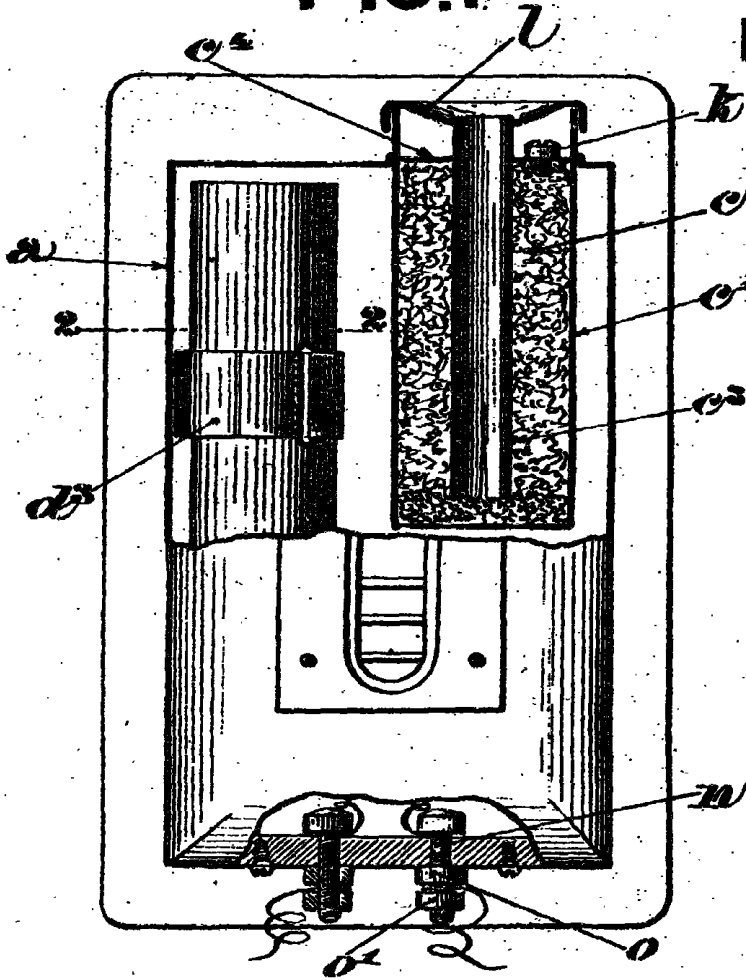


FIG. 3

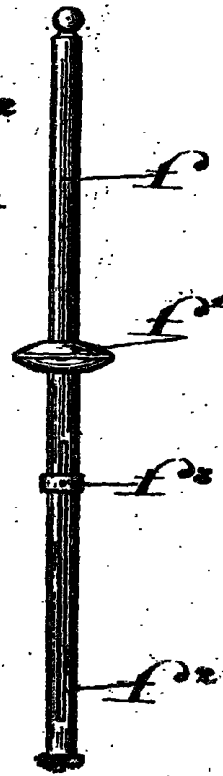


FIG. 2

