

March 14, 1950

A. G. ST. PIERRE ET AL
ELECTRIC CANDLE LIGHTER

2,500,584

Filed April 22, 1949

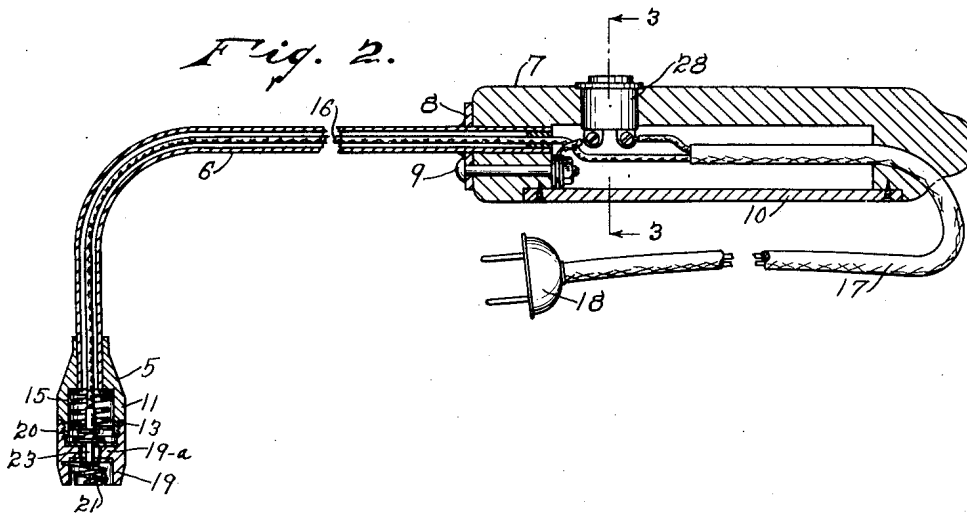
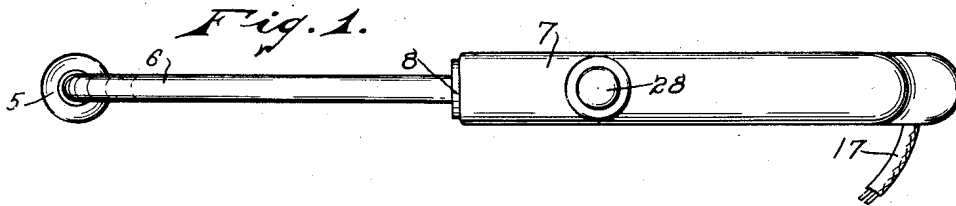


Fig. 3.

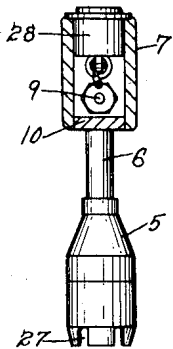
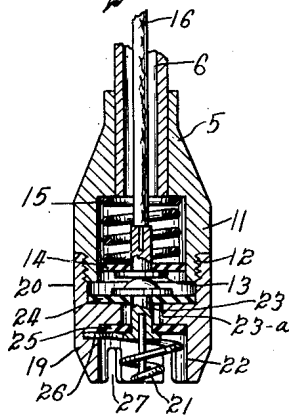


Fig. 4.



INVENTOR.
ALBERT G. ST. PIERRE
TREFLE W. BRETON
BY

Louis V. Lucia
ATTORNEY.

UNITED STATES PATENT OFFICE

2,500,584

ELECTRIC CANDLE LIGHTER

Albert G. St. Pierre and Trefle W. Breton,
Hartford, Conn.

Application April 22, 1949, Serial No. 89,066

1 Claim. (Cl. 219—32)

1

This invention relates to candle lighters and more particularly to an electrical lighter which is especially adapted for lighting candles in high places, such as on altars or the like.

An object of the invention is to provide an electrically operated candle lighter which is highly efficient in its operation and durable in construction. A further object is to provide such a lighter having novel and important features which render the device highly practical and efficient in its operation.

Further objects and advantages of the invention will be more clearly understood from the following description and from the accompanying drawings in which:

Fig. 1 is a plan view of a candle lighter embodying our invention.

Fig. 2 is a side view thereof in central vertical section.

Fig. 3 is a sectional end view on line 3—3 of Fig. 2 with parts thereof being shown in elevation.

Fig. 4 is an enlarged side view of the lighting element in central vertical section.

As shown in the drawings, our improved candle lighter comprises a lighting head 5 which is mounted at the end of a metallic tube 6 extending from a handle 7. The said tube is preferably attached to the handle by means of a flange 8 which is secured to the tube and has a connecting screw 9 extending therethrough and through the end portion of the handle into a cavity in said handle which is covered by means of a cover plate 10.

The head 5 is constructed of an electric conducting material and conductively connected to the tube 6. The said head is formed with a central cavity surrounded by an annular wall 11 having a reduced threaded portion 12 extending therefrom. A contact member 13 is mounted on an insulating disc 14 which is slidable in said cavity and is backed by a spring member 15. The said contact member is electrically connected by a conductor 16 which extends back through the tube 6 into the interior of the handle 7, wherein it enters a suitable electric cord 17 having an extension plug 18 at the end thereof.

A tubular lighting tip 19 constructed of electric conducting material has a cross wall 19^a therein between the ends thereof defining an outer recess 22 and an inner recess formed by the wall 20 of the tip with the inner recess communicating with the cavity in the head and said wall 20 is threadedly engaged with the wall portion 12 of the head 5. A lighting element, pref-

2

erably in the form of a spiral coil 21, is mounted within the recess 22 in the outer end of the lighting tip. This element 21 has a central stem electrically connected to a contact member 23 that is mounted in the central opening 23^a in the cross wall 19^a and is electrically insulated from the tip by means of insulating washers 24 and 25 engaged with opposite sides of the cross head. The said lighting element also has a side extension 26 which is electrically connected to the tip 19 for completing an electric circuit through said element. The recess 22 is provided with notches 27 in the wall 19 thereof to enable the person using the device to see the candle wick and thereby easily determine when the wick has been ignited. It will also be understood that by locating the element in the recess 22, it is protected from damage through contact with the other articles.

An electric switch 28 of suitable construction is mounted in the handle 7 and has one side thereof connected to one of the conductors in the cord 17 and the other side connected to the tube 6 through the screw 9.

When the plug 18 is inserted into a suitable current supply and it is desired to use the lighter for lighting a candle, the tip 19 is placed over the candle so that the wick thereof will project into the recess 22 and contact the lighting element 21. The switch 28 is then closed and an electric circuit is thereby completed which extends through the tube 6, the lighting element 21 and the conductor 16 and thereby energizes the lighting element and heats it to a temperature which is sufficient to cause rapid lighting of the candle wick; the lighting action of said element being clearly accelerated by reason of the air supplied into the recess 22 through the vent notches 27.

We claim:

An electric candle lighter comprising a handle, a tubular member extending from the handle, a lighting head at the outer end of the tubular extension, said head having a detachable tip with a centrally apertured cross wall therein between its ends, defining inner and outer recesses, a contact mounted in the wall aperture and insulated from said wall and tip, a lighting element carried by said contact and positioned in the outer recess of said tip and grounded to said tip, the wall of the tip surrounding the outer recess having end opening longitudinal slots therein, a second tensioned contact in the inner recess engaged with the first named contact, a switch carried by the handle, a source of electrical energy

3

having one lead wire attached to one terminal of the switch and the other lead wire attached to the second contact and a wire connection between the tubular extension and the other terminal of the switch.

ALBERT G. ST. PIERRE.
TREFFLE W. BRETON.

4

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,294,597	Apfel -----	Feb. 18, 1919
1,480,011	Roden -----	Jan. 8, 1924
1,530,914	Roden -----	Mar. 24, 1925
1,697,615	Sinko -----	Jan. 1, 1929
1,819,610	Lucia -----	Aug. 18, 1931