

Nov. 10, 1942.

T. R. GOETTIE

2,301,775

COMBINED CIGARETTE CASE AND LIGHTER

Filed March 17, 1941

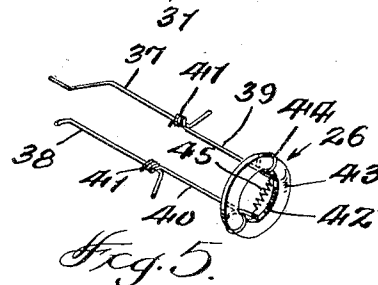
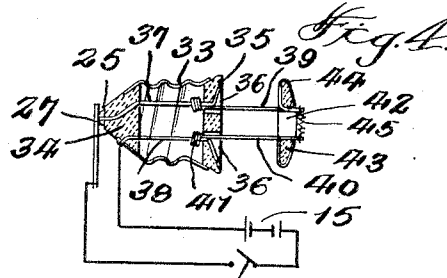
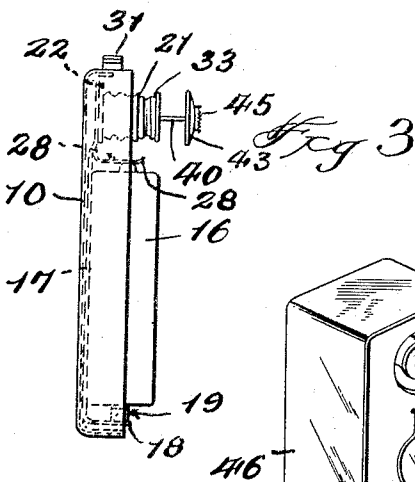
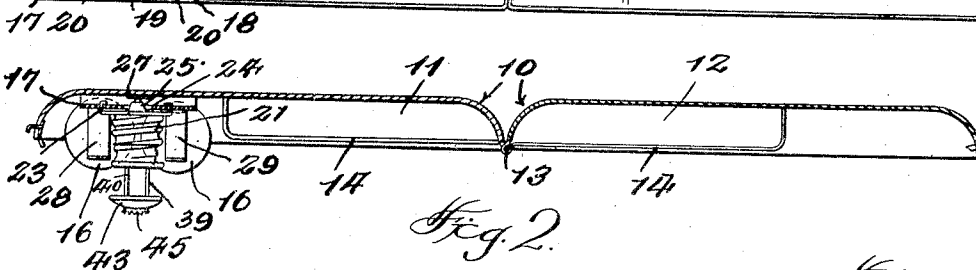
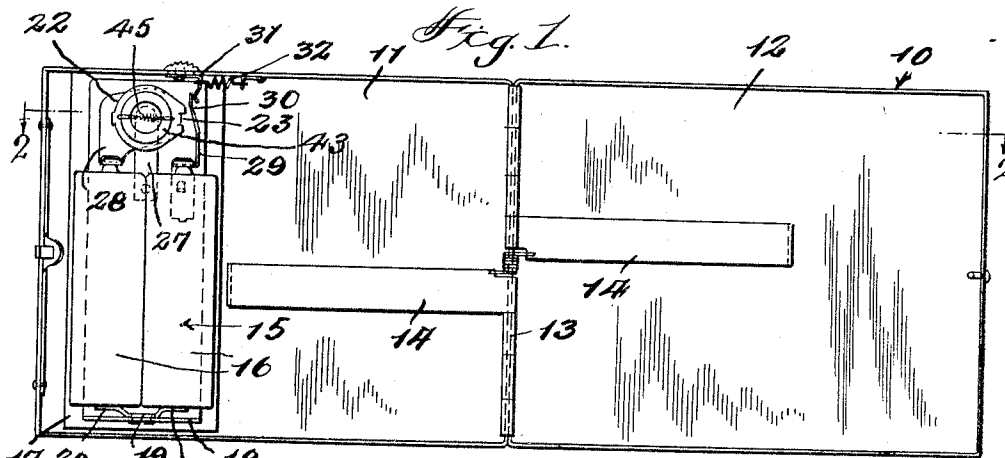
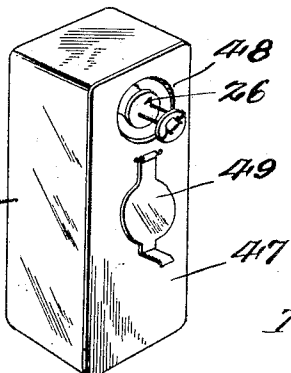


Fig. 6.



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## UNITED STATES PATENT OFFICE

2,301,775

## COMBINED CIGARETTE CASE AND LIGHTER

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Application March 17, 1941, Serial No. 383,848

2 Claims. (Cl. 219—32)

This invention relates to a combined cigarette case and lighter, and it consists in the constructions, arrangements and combinations herein described and claimed.

It is the cardinal object of the invention to provide a novel construction of lighter adapted to be incorporated with a cigarette or cigar case, in which the lighter unit is adjustable from normal position to an extended position for lighting a pipe, in the latter case, it being necessary to extend the lighting unit to a position as to be readily placed in the bowl of the pipe for igniting the tobacco.

It is a still further object of the invention to provide an igniting unit which may be operatively connected in a circuit similar to the ordinary electric bulb of portable flashlights and the like.

A more specific object of the invention is the provision of an igniting means extensibly associated with a screw threaded base member forming the connection with a socket of an electrical circuit.

Additional objects, advantages and features of invention will be apparent from the following description considered in conjunction with the accompanying drawing, wherein

Figure 1 is a plan view of a cigarette case, in open position, having my lighter incorporated therein.

Figure 2 is a sectional view on the line 2—2 of Figure 1.

Figure 3 is an end view thereof.

Figure 4 is a diagrammatic view of a circuit which may be employed.

Figure 5 is a fragmentary perspective view of the igniting unit.

Figure 6 is a modification illustrating the installation of the igniting unit in a lighter case only.

Attention is first invited to Figures 1, 2 and 3, wherein there is shown a conventional construction of cigarette case 10, consisting of a pair of hinged compartments 11 and 12, adapted to be closed upon one another, as well understood.

The hinge 13 of the case also mounts respective cigarette holding straps 14, which are of lesser length than the respective compartments to permit installation of a battery unit 15 in the compartment 11 and to accommodate this unit in the compartment 12.

In the present instance, a pair of dry cells 16 are shown supported upon an insulation strip 17, suitably fixed in the compartment 11, but in slightly spaced relation, as shown in Figure 2. The strip 17 has a right angular foot 18 at the

base thereof, upon which a contact plate 19 is secured, the plate having oppositely disposed spring arms 20 forming contact with the bases of respective cells 16 which are arranged in parallel relation. Adjacent the upper portion of the insulation strip 17, a socket 21 is secured, in the present instance, this is accomplished by the provision of a plate 22 fixed to the socket and having tongues 23 extended through the strip and bent therebeneath. In addition, the strip 17 is provided with an opening 24 through which the base contact 25 of the igniting unit 26 may extend so as to engage a contact strip 27 fixed to the case.

The socket 21 also has a spring contact arm 28 constructed to engage the positive pole of one of the dry cells 16, and a spring contact arm 29, fixed to the case is arranged so as to engage the positive pole of the other dry cell, the latter contact arm having an upward extension 30 cooperable with a sliding switch arm 31, carried exteriorly of the case, as shown in Figure 1. The switch arm 31 is tensioned by a spring 32 to hold the arm in open position, yet yieldable under manual pressure to make contact with the arm 31, for energizing the igniting unit 26.

The igniting unit 26 will now be described, attention being invited particularly to Figures 4 and 5. The unit consists of a screw threaded shell 33 complementary to the socket 21, and comprises a base closure 34 bearing the contact 25 and an outer closure cap 35, the latter having a pair of openings 36. One of the openings 36 has fixed therein a conductor wire 37 in electrical connection with the contact 25, and the other opening 36 mounts a conductor 38, one end of which is electrically connected with the shell 33.

Upon each of the conductors 37 and 38 respective wires 39 and 40 are slidably mounted, the wires being extended outwardly of the closure cap 35 through respective openings 36. In the present instance, the wires 39 and 40 each have a portion snugly wound upon respective conductors 37 and 38, as indicated at 41, which in addition to forming a good electrical contact with the conductors, serve to limit outward movement of the wires through engagement with the cap 35.

Each of the wires 39 and 40 are extended through an aperture 42 of an annular disk 43 of insulating material and turned therearound as at 44, the ends of the wires being positioned without the opening 42 a short distance, and in a plane coextensive with the conductors 37 and 38. A filament 45 is secured between the ends of the wires 39 and 40, the filament being thus supported for application to a cigarette or cigar when

in normal position and when the wires 39 and 40 are in extended position as shown in Figures 3 and 4 may be readily inserted into the bowl of a pipe.

In Figure 6, the igniting unit 26 previously described is illustrated as housed in an elongated casing 46, containing the batteries, etc. The front wall 47 may be hinged or otherwise fixed to the casing and has an opening 48 through which the filament may be withdrawn to an extended position. A closure 49 is hingedly connected to the wall 47 adapted to swing over the opening 48 when the filament is in retracted position.

While I have shown and specifically described my invention, this is by way of illustration only, and I consider as my own all such structure as fairly falls within the scope of the appended claims.

I claim:

1. An igniting unit for use in a socket comprising a base for detachable connection in the socket, said base having a pair of conductors housed therein and extending longitudinally thereof, and having stop means adjacent the ends of the con-

ductors, a conductor slidably engaged upon each of the first named conductors and having portions adapted to engage the stop means in the outer position of their movements, means for connecting the last named conductors for simultaneous sliding movement, and a filament extended between the ends of the last named conductors.

2. An igniting unit for use in a threaded socket comprising a threaded shell, an insulator plug in one end thereof and a closure cap in the other end, said closure cap having a pair of openings, a conductor engaged in each of the openings, one of said conductors terminating medially and exteriorly of the plug and the other conductor being electrically connected to the shell, second conductors extended through respective openings of the closure cap parallel to the first named conductors and having helices for accommodating said first named conductors, said second named conductors having an insulator disk adjacent their free ends, and a filament connected between the free ends of the second named conductors.

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