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G. PARKER ET AL
SMOKER'S IGNITING DEVICE
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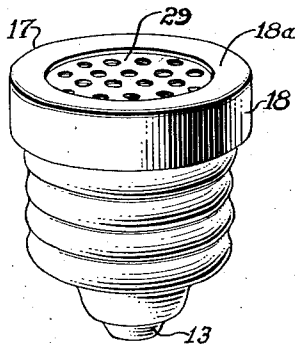


Fig. 1

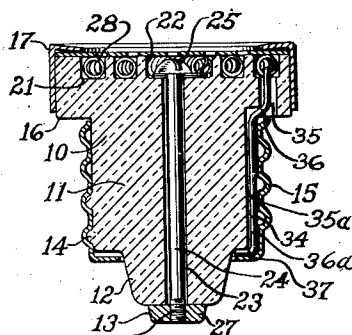


Fig. 2

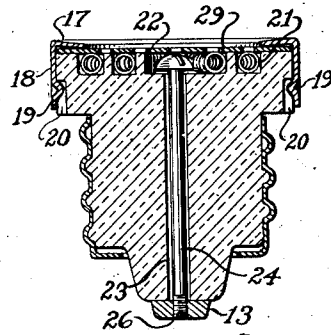


Fig. 3

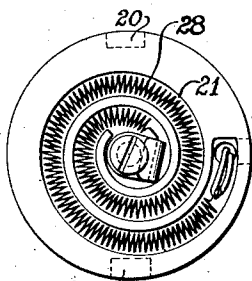


Fig. 4

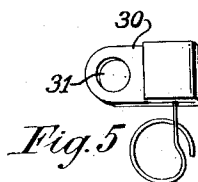


Fig. 5

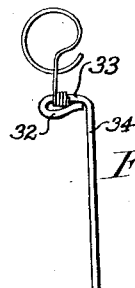


Fig. 6

Fig. 8

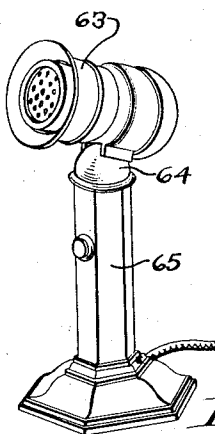
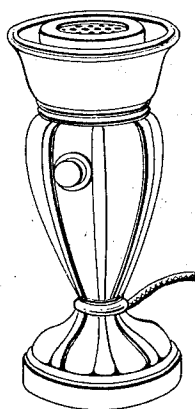


Fig. 9

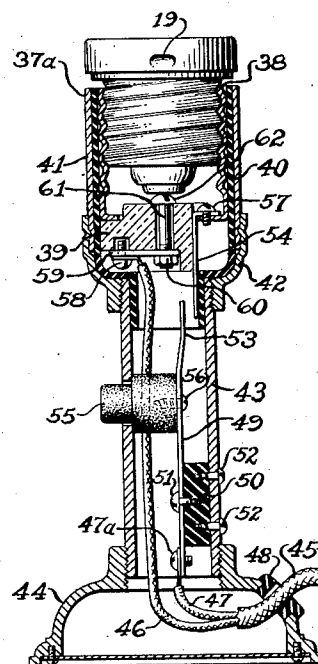


Fig. 7

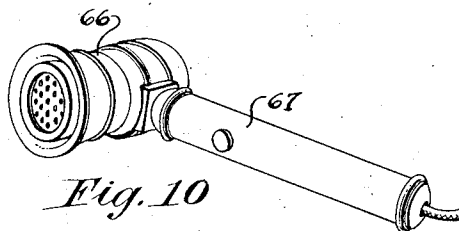


Fig. 10

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SMOKER'S IGNITING DEVICE.

Application filed September 30, 1924. Serial No. 740,754.

This invention relates to smokers' articles and more particularly to an electrical device for igniting cigars, cigarettes, or pipes without the use of matches.

5 One object of this invention is to provide a smoker's electric igniting device of the above nature which may be plugged into any ordinary electric lamp socket or electric appliance outlet.

10 A further object is to provide a smoker's igniting device of the above nature which will be simple and compact in construction, inexpensive to manufacture, easy to install and manipulate, ornamental in shape, and
15 very economical and durable in use.

With these and other objects in view, there have been illustrated on the accompanying drawings several forms in which the invention may conveniently be embodied
20 in practice.

Fig. 1 represents a perspective view of the smoker's igniting unit.

Fig. 2 is a sectional transverse view of the same.

25 Fig. 3 is a sectional transverse view of the same taken along a plane at right angles to the view shown in Fig. 2.

Fig. 4 is a top plan view of the same, with the holding ring and mica disc removed.
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Fig. 5 is a perspective view of the central connecting member for joining the inner end of the spiral heating coil to the center terminal pin.

35 Fig. 6 is a perspective view of the outer connecting member for joining the outer end of the spiral heating coil to the outer terminal wire.

Fig. 7 is a sectional view of one of the smoker's igniting units as it appears when installed in a special form of holder adapted to maintain the unit with its heating surface horizontal.
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Fig. 8 is a perspective view of a slightly modified form.
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Fig. 9 is a perspective view of one of the lighting units as it appears when installed in another modified form of holder adapted to maintain the unit with its heating surface substantially vertical.
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Fig. 10 is a view of one of the smoker's igniting units installed in a third form of holder.

Referring now to the drawings in which
55 like reference numerals denote correspond-

ing parts throughout the several views the numeral 10 indicates a one-piece body member preferably of porcelain or molded insulating material. The body member 10 has an intermediate cylindrical portion 11, below which is a conical lower section 12 adapted to serve as a seat for the center contact disc 13. The intermediate portion 11 is provided with a helical hub 14 at its lower end to fit the threads of a screw shell 15 adapted to fit over the body member 10, the exterior surface of said shell being adapted to engage the threads of a lamp socket. The body member 10 is enlarged at its upper portion to form a flange 16 upon which a cover ring 17 is adapted to fit, said ring comprising a depending skirt 18 and a flat top section 18^a, said skirt 18 having a plurality of depressions 19 adapted to seat within registering recesses 20 in the flange 16.
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The top of the body member 10 is flat and is provided with a spiral groove 21, said groove being of rectangular cross-section and communicating at its inner end with an enlarged circular recess 22. The recess 22 leads to a vertical passage 23 passing entirely through the body 10, said passage 23 serving to fit about a central terminal pin 24. The pin 24 has a slotted head 25 at its upper end, and is threaded at its lower end to receive a nut 27 which serves as the center contact of the plug.
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In order to provide the device with an incandescent surface for igniting cigars, cigarettes, or pipes, a coil of resistance wire 28 is fitted within the spiral groove 21, said resistance wire being covered by a perforated mica disc 29 held in place by the ring 17, previously described. The heat from the incandescent resistance wire is partly radiated through the perforations in the mica disc and partly passes by conduction through the mica itself, so that a cigar, cigarette, or pipe placed in contact with the mica disc will be readily ignited.
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In order to connect the inner end of the spiral resistance coil 28 to the central terminal pin 24, an improved type of connecting member 30 is employed, said connecting member being constructed from a short metal strip having an aperture 31 at one end to fit around the pin 24, and having its other end bent upon itself to clamp the inner extremity of the resistance coil 28 placed therebetween.
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In order to electrically connect the resistance coil 28 to the outer screw shell 15, the outer extremity of the coil 28 is wound about one side 33 of an elongated loop 32 disposed at right angles to the straight portion of an outer depending terminal wire 34. The wire 34 extends vertically downward through an aperture 35 in the flange 16, and is then bent inwardly at 36 and then downwardly at 36^a, where it fits in a groove 35^a formed in the side of the intermediate section 14. The lower extremity 37 of the wire 34 is bent inwardly at right angles around the shoulder next to the conical section 12.

By means of the above construction, when the screw shell 15 is engaged upon the body 10, it will contact with the lower extremity 37 of the terminal wire 34 and form a tight electrical connection therewith.

In the device shown in Fig. 7 the smoker's igniting unit is shown installed in a special form of holder 37^a adapted to rest in vertical position upon a table or other support. The holder 37^a includes a metal socket member 38 which is connected at its base to an insulating body member 39. The socket member 38 and the body member 39 are carried within a cup-shaped insulating member 40, which in turn fits within an outer cylindrical shell 41. The outer shell 41 is preferably detachably connected as by a threaded coupling member 42, to a lower tubular member 43, having exterior threads at its top and bottom portions. The lower portion of the tubular member 43 is screwed into a hollow base 44.

Electricity is supplied to the device by a two-wire cord 45 comprising a pair of wires 46 and 47, said cord passing through a button or eye 48 in the side of the casing 44. The wire 47 passes upwardly within the base 44 and is connected by a screw binding post 47^a to a resilient metallic strip 49 which in turn is secured to the tube 43 by means of an insulated member 50 and screws 51 and 52.

The upper end of the resilient strip 49 is bent laterally and upwardly at 53, and is adapted to engage a depending stationary contact member 54, whenever a push button 55 attached to the strip 49 by a screw 56 is operated by the user. The stationary contact member 54 passes upwardly through the base of the socket shell 38 and is bent at right angles and secured to said base by a screw 57.

The other wire 46 passes up through the tube 43 and is connected by a binding screw 58 to a horizontal metal connecting strip 59, said strip being secured at its inner end, by a nut 60, to a central connecting pin 61, said pin having a head 62 adapted to engage with the center contact 27 of the lighting unit.

In operation, when the button 55 is

pressed, the circuit will be closed temporarily, causing the spiral coil to be quickly heated to incandescence, said heat being continued as long as the pressure on the button 55 is maintained.

When through using the device, the smoker will release the button 55, whereupon the resiliency of the contact strip 49 will open the circuit and permit the coil to cool off.

In the form of device shown in Fig. 9 the holder is similar to that shown in Figs. 7 and 8, except that in Fig. 9 the heating unit is received in a socket member 63 which is adjustably connected by a ball and socket joint 64 to a vertical support 65. As will be evident, in this modification of holder the heating unit will be maintained with its heating surface substantially vertical.

In the modified form of device shown in Fig. 10 the holder shown is adapted, when not in use, to rest in a horizontal position upon a table, said holder comprising a socket portion 66 and a handle 67 joined thereto in any suitable manner.

One advantage of this invention is that the ignition unit may be easily and quickly screwed into any standard electric light socket or appliance outlet, such as are commonly found in houses and buildings.

While the invention is especially adapted for use upon desks, smoker stands, tables, and the like, it may also be employed upon automobiles, or in any other location desired.

While there have been disclosed in this specification several forms in which the invention may be embodied, it is to be understood that these forms are shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosures but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claims.

Having thus fully described the invention, what is claimed as new, and for which it is desired to secure Letters Patent, is:

1. In a smoker's electric igniting device, a body member of insulating material, a screw shell on said body member adapted to engage with the screw shell of an electric light socket, and interior terminal member passing through said body member and insulated from said screw shell, a heating coil of resistance wire seated in a groove in the top of said body member, one end of said coil being electrically connected to said screw shell, and means for electrically connecting the other end of said coil to the interior terminal member, said means comprising a metal strip having an aperture surrounding said central terminal member

and having its other end clamped around the end of the coil to hold it firmly in position.

2. In a smoker's electric igniting device, a base member having a socket adapted to be connected to a source of electric current, said socket having center and shell contacts, a heating unit adapted to be plugged into said socket, a switch in said base for closing the circuit through said unit, said unit comprising a central solid substantially cylindrical insulating body, a metal terminal member passing downwardly through said body

and having a center contact at its lower end for engaging with the center contact of the socket an electric heating unit located on the top of said unit and connected with said terminal member, and means for connecting the outer end of the heating coil to the shell contact of said socket. 15

In testimony whereof, we have affixed our signatures to this specification. 20

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