This invention relates to smoking pipes and tubes, and the invention comprises an illuminating means carried within the stem portion of the receptacle of the portable self-contained pipe.

The primary object of this invention is to provide a smoking pipe or tube having incorporated therein a self-contained portable lamp whereby the pipe may be used for smoking purposes as well as an illuminator.

A further object of this invention is to provide a smoking pipe or tube in which the same is provided with a bore for receiving the batteries extending substantially parallel to the bore of the smoking pipe or tube, thereby presenting a compact unit adapted to be easily carried in a personal receptacle.

Other objects and advantages of the invention will become apparent during the course of the following description, forming a part of this specification and in which,

Figure 1 is a longitudinal cross-sectional view illustrating the invention as applied to a smoking pipe and showing the manner in which the illuminating device is mounted therein;

Figure 2 is an enlarged longitudinal cross-sectional view further illustrating the manner in which the portable electric illuminator is mounted within the stem portion of the bowl;

Figure 3 is a transverse cross-sectional view taken on line 3–3 of Figure 1, looking in the direction of the arrows, illustrating the position of the bores in the bowl stem of the smoking pipe;

Figure 4 is a transverse cross-sectional view taken on line 4–4 of Figure 1, looking in the direction of the arrows, illustrating the connection between the stem of the bowl and the mouthpiece;

Figure 5 is a longitudinal cross-sectional view of the invention as applied to a smoking tube or cigarette holder;

Figure 6 is a front elevation of the modified form of the invention shown in Figure 5, illustrating the arrangement of the cigarette receiving bore relative to the lens of the illuminator;

Figure 7 is a transverse cross-sectional view taken on line 7–7 of Figure 5, looking in the direction of the arrows illustrating the manner of arranging the bores and showing the manner in which the headlamp may be unscrewed to break the contact between the batteries and the filament;

Figure 8 is a transverse cross-sectional view taken on line 8–8 of Figure 5, looking in the direction of the arrows, further illustrating the position of the bores and the general contour of the cigarette receptor and the batteries and the filament.

Figure 9 is a side elevation illustrating the invention as applied to a smoking pipe as shown in Figures 1 to 4 inclusive.

In the drawing, wherein for the purpose of illustrating the invention and wherein like reference characters will be employed to designate like parts throughout the same, the reference character 5 will generally be employed to designate the stem portion of a smoking pipe having the usual bowl 6 and the stem 5 is generally of an oval shape in cross-section in close relation to the bowl 6, while it terminates in a circular cross-section.

This construction provides an enlarged portion 7 below the bowl 6 which is adapted to be bored as at 8 for receiving a screw threaded thimble 9 into which may be screwed a suitable electric lamp designated by the reference character 10. Communicating with the bore 8 is a bore 11 having an enlarged portion 12 for receiving a reflector 13 having suitable screw threads through which the screw threads of the electric lamp 10 are passed with the reflector 13 rigidly secured to the electric lamp 10 adjacent the threaded base thereof. The reflector 13 is provided near its outer end with screw threads 14 for receiving an internally screwed through collar 15 having one of its ends overturned as at 16 for retaining a lens 17. By tightening the internally Screw thread collar 15 upon the reflector 13, the electric lamp 10 may be screwed or unscrewed from its socket 9 whereby the contact of the electric light 10 will be moved out of engagement with the positive electrode 18 of an electric battery 19 which is received in a bore 20 aligned with the bores 8 and 11. If desired, the bore 20 may be extended to receive another battery 21 as shown in Figures 1 and 2.

The bowl of the pipe 6 communicates with a metallic tube 21 which is mounted in a bore 22 directly above the bore 20 so that communication between the bowl 6 through the port 23 to the stem 24 may be established. It is to be noted that one end of the tube 21 is formed with an angle portion 25 adapted to extend beyond a metal ferrule 26 secured to the end of the stem 5 and that the free end of the angle portion 25 is enlarged as at 28 and is externally screw threaded as at 29 for receiving corresponding screw threads 30 formed in an enlarged bore 31 of the mouth-piece bore 32 whereby the mouth-piece 33 is provided.
2 24 may be screw threaded onto the enlarged portion 28 of the angle tube 25.

In the form of the invention illustrated in Figures 5 to 8 inclusive, the reference character 28 will generally be employed to designate the receptor portion of a cigarette holder preferably oval-shape in cross-section as shown in Figures 7 and 8 and terminating at one end in a circular portion which is confined within a metal ferrule 6a. The opposite end of the receptor 28 is provided with a tubular extension 7a for receiving a cigarette or other smoking cartridge. The bore of the projection 7a communicates with a bore 8a in the receptor portion 28 as at 9a and it is housed in the cigarette holding tube 7a as clearly shown in Figure 5. Mounted within the bore 8a is a metallic tube 10a which has one end presented to the tapered bore 9a while the opposite end is provided with an angle portion 11a and terminates in an enlarged screw threaded portion 13a which extends through the metal ferrule 6a in order that a mouth-piece 13a having internal screw threads at the enlarged portion of the bore 13a may be screwed onto and off of the enlarged portion 12a.

Extending obliquely to the bore 8a is a bore 14a which extends from a point close to the angle portion 11a of the tube 10a to a position forward thereof wherein the bore terminates in an enlarged bore 15a having internal screw threads for receiving an internally screw threaded collar 16a. Directly forward of the screw threaded collar 16a there is provided a bore 17a enlarged as at 18a for receiving an electric lamp reflector 19a, lens holder 20a and lens 21a similar in construction to the reflector and lens holder shown in Figures 1 and 2. The electric lamp 22a is screw threaded into the screw threaded collar 16a so that the contacts 23a of the electric light 22a will engage a small pair of electric batteries designated by the reference character 24a. As shown in Figure 5, the positive terminals of the electric batteries 24a are connected in series and electric contact is established through the negative sides of the batteries through a wire 26a connecting the screw threaded collar 16a and the metal tube 10a which has its angle portion 11a positioned to the end or negative side of the battery.

Connection between the screw threaded thimble 28 as shown in Figures 1 to 4 inclusive, to the batteries is established by means of the screw threaded thimble 9 engaging one end of the metallic tube 21 as clearly illustrated in Figures 1 and 2 so that the angle portion 29 of the metallic tube 21 may engage one end of one of the batteries 19 or the negative side of the battery.

In operation of the device, the user merely has to turn the internall screw threaded collar 15 shown in Figures 1 to 4 inclusive and the internall screw threaded collar 20a shown in Figures 5 to 8 inclusive, which causes the screw threaded portion of the electric lamp to move into and out of the screw threaded collars 3 and 16a whereby the contacts of the electric lamp will be moved into and out of engagement with the positive contact of the foremost battery. It is also understood, that the device may be easily carried in the user's pocket and the portable self-contained electric lamp in no way interferes with the smoking qualities of the pipe or cigarette holder.

It is also to be understood, that the form of the invention herewith shown and described is to be taken as a preferred embodiment of the invention and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention, or the scope of the sub-joined claims.

1. In combination with a smoking appliance, of a portable electric lamp contained therein comprising an electric bulb mounted within the forward portion of the smoking appliance, a reflector and lens unit projecting beyond the forward portion of the smoking appliance for turning the electric bulb in its socket, electric batteries mounted in back of the electric bulb and within the stem portion of the smoking implement, said batteries having positive terminals presented to the electric bulb, one of which is in direct contact therewith and a tube for connecting the opposite terminal of the electric bulb to the negative side of the battery, said tube also forming a conduit from the smoking implement to the mouth-piece thereof.

2. In combination with a smoking appliance of a self-contained portable electric lamp mounted therein consisting of an electric bulb mounted in the forward portion of the smoking appliance, a reflector secured to the electric bulb, a lens mounted in front of the reflector, an internally screw threaded thimble for holding the lens to the reflector, whereby turning of the internally screw threaded thimble will move the electric bulb into and out of its socket, an electric battery mounted directly in back of the electric bulb having its positive terminal engaging the central contact of the electric bulb, and a tube connecting the smoking appliance to the mouth-piece, said tube also forming one of the connections between the electric bulb and the battery.

3. In combination with a smoking appliance, having a tobacco receptacle and a mouth-piece, of a portable self-contained electric lamp mounted in close relation to the tobacco receptacle, said portable self-contained electric lamp comprising a screw threaded thimble inserted into a bore in the forward portion of the tobacco receptacle directly thereunder, an electric bulb screw threaded into the screw threaded thimble, a reflector secured to the electric bulb, a transparent member carried by the reflector, a battery mounted in back of the electric bulb whereby the positive contact thereof will engage one of the terminals of the electric bulb, and a tube connecting the tobacco receptacle of the smoking appliance to the mouth-piece thereof whereby said tube will also form the other connection between the electric bulb and the battery.

4. In combination with a smoking appliance of a portable self-contained electric lamp carried in the stem portion of the pipe, said portable self-contained electric lamp consisting of a screw threaded thimble inserted into a bore in the forward portion of the bowl of the pipe directly thereunder, an electric bulb threaded into the screw threaded thimble, a reflector screw threaded onto the electric bulb whereby the reflector will be rigidly attached to the electric bulb, a transparent lens carried by the reflector, a battery mounted directly in back of the electric bulb so that the positive terminal thereof engages one of the contacts of the electric bulb, and a conduit connecting the bowl of the pipe to the stem thereof, said conduit also forming another connection between the electric bulb and the battery.