Dec. 7, 1937. H. R. SPANGLER 2,101,200

CIGARETTE EXTINGUISHER

Filed Sept. 1, 1936

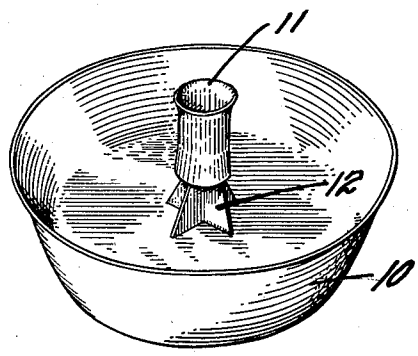


Fig. 1

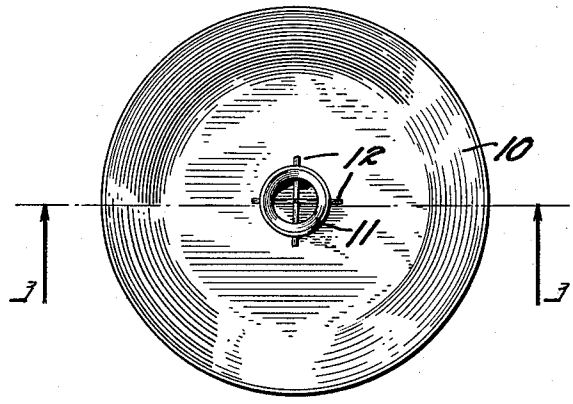


Fig. 2

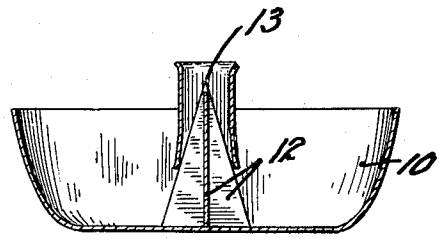


Fig. 3

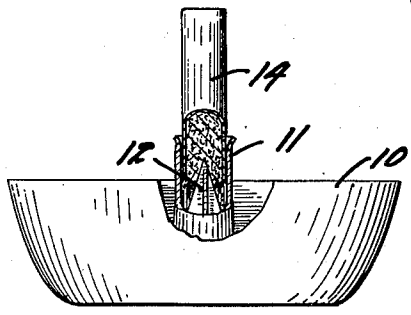


Fig. 4

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CIGARETTE EXTINGUISHER

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Application September 1, 1936, Serial No. 98,836

2 Claims. (Cl. 131—51)

This invention relates to a device for extinguishing cigarettes and cigars, more particularly the former. The principal object of the invention is to provide a neat and compact device which will instantly extinguish a cigarette without damage thereto, so that the cigarette may be again lighted when it is desired to resume smoking.

Another object of the invention is to provide a device of this character which will absolutely stop the annoying smoke arising from a discarded or laid aside cigarette.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:—

Fig. 1 is a perspective view illustrating the invention applied to an ash tray.

Fig. 2 is a plan view thereof.

Fig. 3 is a section, taken on the line 3—3, Fig. 2.

Fig. 4 is a side view partially broken away, illustrating a cigarette in place in the extinguisher.

The invention in the drawing is illustrated positioned in an ashtray or receiver 10. It is, of course, not limited to this particular position but may be attached to any article or supporting surface in any desired position.

The principle of operation of the extinguisher is the immediate absorption or radiation of the heat from the glowing cigarette embers which instantly lowers the temperature thereof below the ignition point. This may be accomplished in many ways. The embodiment illustrated is simply one of the constructions which will carry out this principle.

The invention comprises a cylindrical tube 11 flared slightly at its top to facilitate the insertion of the end of a cigarette and preferably but not necessarily flared slightly at its top to facilitate the passage of ash therethrough. The tube 11 is mounted on a series of triangular plates 12, preferably provided with sharpened edges and terminating at their tops in a relatively sharp point 13, below the upper extremity of the tube 11.

The tube 11 and the plates 12 are formed of metal having a relatively high heat conductivity, such as copper, silver or brass, etc. A very satisfactory material has been found to be copper, plated with silver. Both the copper and the silver have high heat conductivity, and in addition to this, the silver being bright, acts to reflect and radiate heat.

The tube 11 is soldered or otherwise secured permanently to the tubes 12 and the latter may be secured to any suitable supporting surface such as the ash tray 10. The extinguished ashes fall through the open bottom of the tube into the tray 10.

In use, the burning end of a cigarette such as indicated at 13, is forced within the tube 11. This causes the plates 12 to enter into the burning embers and divide the heated extremity into small areas. These small areas are completely surrounded by cold metal of high heat conductivity, which instantly lowers the temperature of the burning extremity to a point below the ignition temperature so that it becomes immediately extinguished.

It is desired to call attention to the fact that the lower extremity of the tube 11 is open, so that air may readily flow therethrough. Therefore the extinguishing is not dependent upon a cutting off of the air supply.

While a specific form of the improvement has been described and illustrated herein, it is desired to be understood that the same may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having thus described the invention, what is claimed and desired, secured by Letters Patent is:—

1. A cigarette extinguisher comprising: a metallic tube; a plurality of pointed metallic plates extending within and intersecting each other within said tube so as to divide the burning extremity of a cigarette as it is forced into said tube.

2. A cigarette extinguisher comprising: a plurality of metallic plates intersecting each other, said plates being pointed at the axis of intersection; and a metallic tube surrounding said pointed extremities and supported by said plates.

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