March 25, 1952 R. C. LINDSTROM 2,590,425

CIGARETTE EXTINGUISHER

Filed Sept. 24, 1947

Fig. 1.

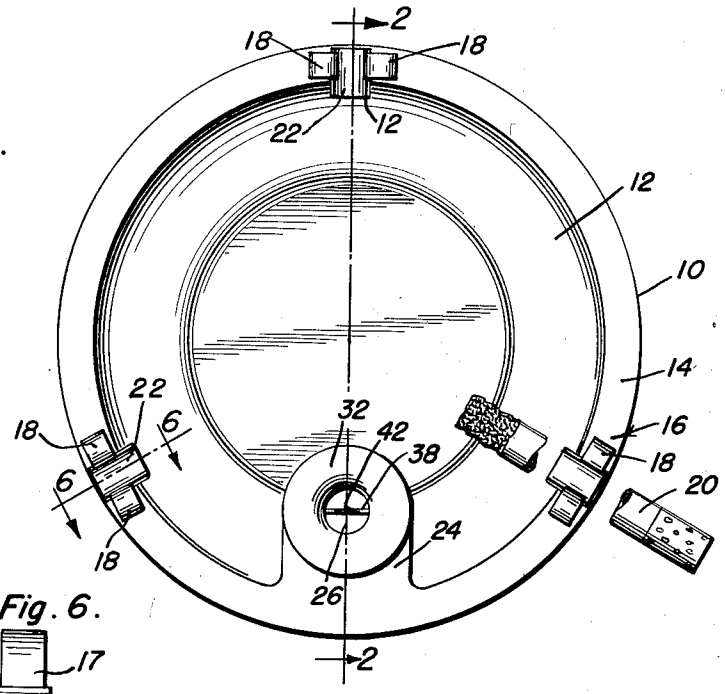


Fig. 6.

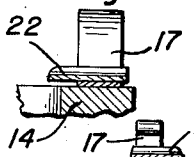


Fig. 2.

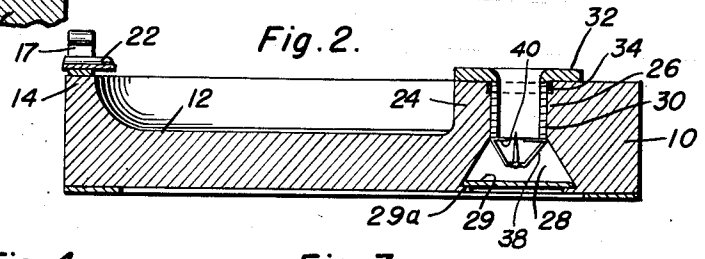


Fig. 4.

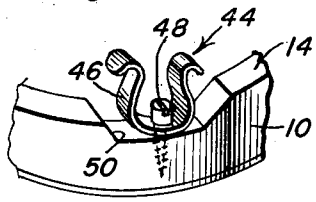


Fig. 7.

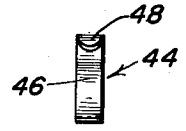


Fig. 3.

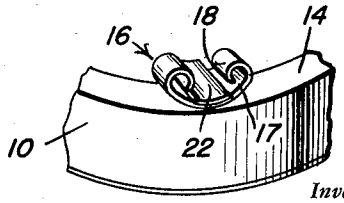


Fig. 5.



Inventor

Robert C. Lindstrom

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

Patented Mar. 25, 1952

2,590,425

UNITED STATES PATENT OFFICE

2,590,425

CIGARETTE EXTINGUISHER

Robert C. Lindstrom, Los Angeles, Calif., assignor of fifty per cent to Oscar Lindstrom, Great Falls, Mont.

Application September 24, 1947, Serial No. 775,861

1 Claim. (Cl. 131—235)

1

This invention relates to new and useful improvements in cigarette extinguishers, and the primary object of the present invention is to provide an ash tray including novel and improved means for engaging and retaining lighted cigarettes in such a manner that the same will be quickly and efficiently extinguished.

Another important object of the present invention is to provide an ash tray including novel and improved means for holding cigarettes in position so as to resist dislodgment should the ash tray be accidentally moved during use.

A further object of the present invention is to provide a cigarette extinguisher that is extremely neat and attractive in appearance.

A still further aim of the present invention is to provide an ash tray that is simple and practical in construction, strong and reliable in use, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a top plan view of the ash tray constructed in accordance with the present invention;

Figure 2 is a vertical sectional view taken substantially on the plane on section line 2—2 of Figure 1;

Figure 3 is a fragmentary perspective view of a portion of the tray showing the cigarette holder used in conjunction with the present invention;

Figure 4 is a fragmentary perspective view of a portion of the tray in slightly modified form and showing the cigarette holder also in modified form;

Figure 5 is a perspective view of the cigarette engaging and retaining member;

Figure 6 is a sectional view taken substantially on the plane of section line 6—6 of Figure 1; and

Figure 7 is a side view of the holder shown in Figure 4.

Referring now to the drawings in detail, wherein, for the purpose of illustration, there is disclosed a preferred embodiment of the present invention, the numeral 10 represents a circular body dished out or recessed as at 12 to form an annular flanged portion 14.

Circumferentially spaced holders designated generally by the numeral 16 are rigidly carried

2

by the flanged portion 14. These holders comprise substantially U shaped members 17 of spring metal having their ends 18 curled inwardly to yieldingly grip a cigarette 20 inserted therein. An arcuate bearing plate 22 is fixedly carried by each of the holders and forms a seat for the cigarette received by the holder, as shown in Figure 1.

An integral projection 24 carried by the member 10 at one side is provided with a chamber 26 terminating at its lower end in a substantially enlarged conical portion 28 having a flexible fire resistant disk 29 forced through its lower open end to seat on a shoulder 29a in portion 28. Received in the chamber 26 is a sleeve 30 having an annular flange 32 at its outer end that bears upon the outer face of the projection about the chamber. It is preferred that this sleeve be constructed of a fire resistant material. An annular washer 34 carried by the outer periphery of the sleeve bears against the inner walls of the chamber to retain the sleeve in position to the chamber.

The numeral 36 represents the cigarette engaging and retaining member generally comprising a substantially U shaped element of spring wire 38 having its terminals 40 turned outwardly in opposite directions. These terminals 40 are curved to extend beneath the lower edge of the sleeve 30 and are rigidly secured thereto by any suitable means. Rigidly secured to the lower portion of the element 38 is the lower portion of a pointed element 42.

In practical use of the device thus described, a lighted cigarette is inserted into the chamber so that the pointed element 42 extends into the lighted cigarette to be retained in position within the chamber with the lighted end of the cigarette's end portion 28. The smoke from the cigarette will pass into the enlarged portion 28 of chamber 26 and the smoke quickly fills the portion 28 and chokes the lighted end of the cigarette, it being noted that the lighted end of the cigarette will also tend to consume the relatively small portion of oxygen in the portion 28 to further aid in extinguishing the lighted end of the cigarette.

Attention is now directed to Figures 4 and 7, wherein there is disclosed the cigarette holder 44 in slightly modified form. In this embodiment, the U shaped member 46 having its ends curved outwardly is removably secured by a fastener 48 in a notched portion 50 provided in the flanged portion 14 of the member 10. This fas-

tener also furnishes a bearing surface on which the cigarette bears.

In view of the foregoing description taken in conjunction with the accompanying drawings, it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention, the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and within the scope of the appended claim.

Having described the invention, what is claimed as new is:

A cigarette tray comprising a body having an upstanding marginal flange, a projection integrally formed with said flange and extending radially inwardly of the flange, said projection including a substantially vertical bore having an enlarged lower portion, a sleeve received in the upper end of said bore and having an upper flange bearing against the upper face of said projection, a substantially U-shaped wire member disposed in the enlarged portion of said bore, arcuate extensions at the ends of said U-shaped member fixed to the lower end of said sleeve, an elongated upwardly disposed pointed element fixed to said substantially U-shaped member at the bottom of the U and having its upper portion entering the sleeve, and a fire resistant disk mounted in the enlarged portion of said bore.

ROBERT C. LINDSTROM.

REFERENCES CITED

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

UNITED STATES PATENTS

Number	Name	Date
Re. 15,698	Downey	Oct. 16, 1923
177,456	Blackford	May 16, 1876
232,453	Carrington	Sept. 21, 1880
603,051	Bahan	Apr. 26, 1898
867,250	Davis	Oct. 1, 1907
1,137,443	Ackerman	Apr. 27, 1915
1,436,405	Rockwood	Nov. 21, 1922
1,574,599	Briscoe	Feb. 23, 1926
1,829,844	Altmayer	Nov. 3, 1931
1,889,801	Bessmer	Dec. 6, 1932
1,894,128	Schult	Jan. 10, 1933
1,941,617	Neahr	Jan. 2, 1934
1,999,245	MacKenzie	Apr. 30, 1935
2,101,200	Spangler	Dec. 7, 1937
2,167,261	Sadtler	July 25, 1939
2,448,105	Lynch	Aug. 31, 1948
2,495,496	Agee	Jan. 24, 1950

FOREIGN PATENTS

Number	Country	Date
35,362	Germany	Nov. 5, 1885
362,210	Italy	Aug. 17, 1938