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STORAGE CHAMBER FOR SPARKING METAL

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Fig. 1.

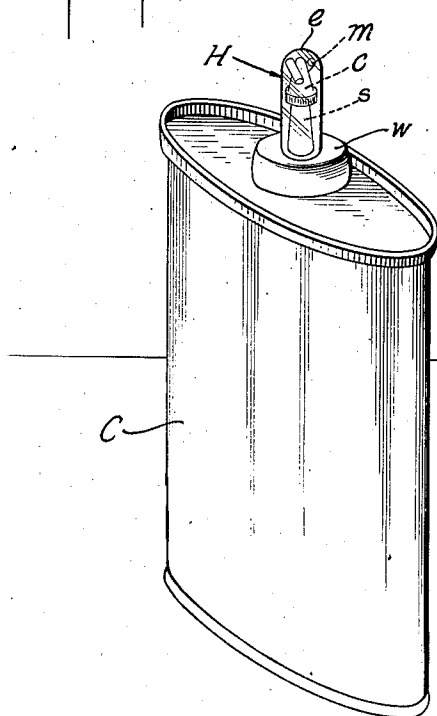
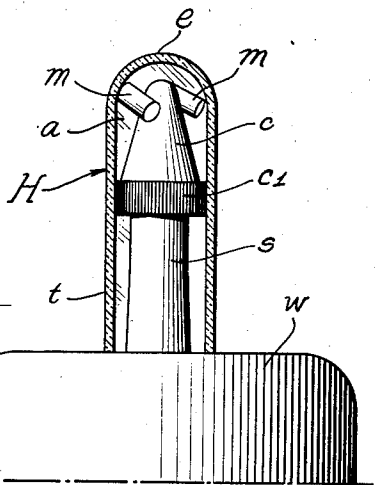


Fig. 2.

Fig. 3.

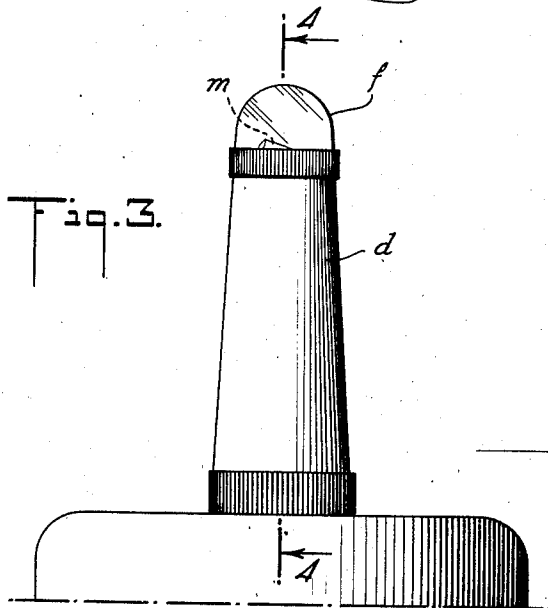
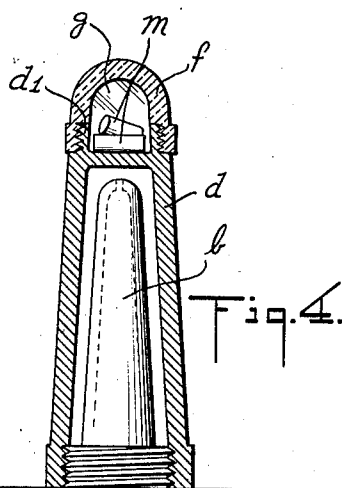


Fig. 4.

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STORAGE CHAMBER FOR SPARKING METAL

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Application April 24, 1941, Serial No. 390,075

1 Claim. (Cl. 206—47)

My invention relates to storage chambers for one or more pieces of sparking metal.

In accordance with my invention, the spout of a liquid-containing receptacle is received within a tubular member formed of transparent material which renders visible one or more pieces of sparking metal disposed or stored in a chamber formed in part at least by said tubular member preferably at the closed end thereof.

Various other objects, features and advantages of my invention will become apparent from the following description.

My invention resides in the storage chamber for sparking metal, combined spout and tubular member arrangement, features and combinations of the character hereinafter described and claimed.

For an understanding of my invention and for an illustration of some of the forms thereof, reference is to be had to the accompanying drawing, in which:

Figure 1 is a perspective view illustrating a preferred form of the invention;

Fig. 2 is a vertical sectional view, partly in elevation, showing the invention of Fig. 1 in an enlarged form;

Fig. 3 is an elevational view illustrating a modification of the invention; and

Fig. 4 is a vertical sectional view, partly in elevation, taken on the line 4—4 of Fig. 3 looking in the direction of the arrows.

Referring to Figs. 1 and 2, C represents any suitable container having therein a liquid medium such, for example, as a high test gasoline adapted to serve as a fuel for pyrophoric lighter mechanisms. As shown, the upper wall of the container C carries a circular wall structure *w* forming a chamber with which communicates a discharge spout *s* to which a closure cap *c* is threaded in a manner well known in the art, the cap *c* having a serrated or grooved section *cl* adapted to be manually grasped when said cap *c* is detached from or attached to the spout *s*.

In accordance with the invention, the spout *s* and the cap *c* are adapted to be enclosed by a housing or cap H formed from a tubular wall *t* merging into a curved end section *e*. With the form of the invention herein shown, the interior diameter of the tubular wall *t* is such that it yieldingly or frictionally engages the roughened cap section *cl* whereby the housing or cap H is detachably retained in the desired position at the end of the container C as shown in Figs. 1 and 2.

As illustrated, the lower end of the tubular

wall *t* should engage the upper surface of the wall structure *w* and the length of said tubular wall *t* should be such that a chamber *a* is formed interiorly of the housing or cap H and around the cap *c* of sufficient size for the reception of one, two or more pieces *m* of ferrocium or sparking metal as customarily used in pyrophoric lighters. In the arrangement shown in Figs. 1 and 2, the grooved section *cl* of the cap *c* forms the lower surface of the chamber *a* and said cap *c*, by reason of its conical shape, affords sufficient space interiorly of the housing or cap H for storage in the end thereof of the ferrocium pieces *m* as specified.

In accordance with a preferred form of the invention, the housing or cap H is formed from suitable transparent material such as Celluloid or other plastic material whereby the pieces of ferrocium disposed therein may readily be seen by a prospective purchaser of one of the containers C.

In view of the foregoing, it will be understood that filled containers C, each having associated therewith a cap or housing H containing the sparking metal pieces *m*, may be stored for sale in a store or other distribution center. When a customer purchases a container C in order to obtain a supply of fuel for his pyrophoric lighter, he obtains, if the container C has associated therewith the arrangement of the invention as stated above, one or more pieces of sparking metal adapted for insertion in his or other pyrophoric lighters. These pieces of sparking metal may be obtained when desired merely by withdrawal of the housing or cap H from the spout *s* and, until used, may remain interiorly of the housing H and hence do not become lost or mislaid. This will be recognized as an advantageous and useful contribution to the art.

In Figs. 3 and 4, I have illustrated a modified form of the invention wherein the spout *b* of a container adapted to contain pyrophoric lighter fuel is threaded at the base thereof for the attachment of a closure cap *d* comprising a conical side wall and a transverse upper wall as shown. The closure cap *d* comprises an upwardly extending tubular section *d1* externally threaded for the attachment thereto of a cap member *f* which forms a chamber *g* adapted to receive one, two or more pieces *m* of ferrocium or sparking metal.

The closure cap *d* and/or the cap member *f* may be formed from suitable material, either transparent or non-transparent. Preferably, however, these members, particularly the cap

member *f*, are formed from transparent material as described above in connection with Figs. 1 and 2.

As regards Figs. 3 and 4, it will be understood, the same as with the construction of Figs. 1 and 2, that a purchaser of a filled container receives a supply of sparking metal pieces *m* which may be withdrawn from the chamber *g* for use as desired. However, as will be understood, the arrangement of Figs. 1 and 2 is preferred by reason of simplicity and decreased expense.

While the invention has been described with respect to certain particular preferred examples which give satisfactory results, it will be understood by those skilled in the art after understanding the invention, that various changes and modifications may be made without departing from the spirit and scope of the invention and it is intended therefore in the appended claim to cover all such changes and modifications.

What is claimed as new and desired to be secured by Letters Patent is:

A structure adapted to be associated with the spout and closure cap of a liquid-containing receptacle, the closure cap comprising a generally circular base section adapted to be manually grasped when said closure cap is to be detached from or attached to said spout, said structure being a transparent tubular member within which said spout and closure cap are received, the interior surface of said tubular member frictionally engaging said base section of the closure cap to thereby retain the tubular member in its intended position, the end of said tubular member removed from said receptacle being closed and forming with the exterior surface of said closure cap together with said base section a closed storage chamber for one or more pieces of sparking metal, said tubular member being readily detachable from said spout and closure cap when it becomes desirable either to obtain a piece of sparking metal or to remove the closure cap from the spout.

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