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W. S. MOODY

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TOOL PACKAGE

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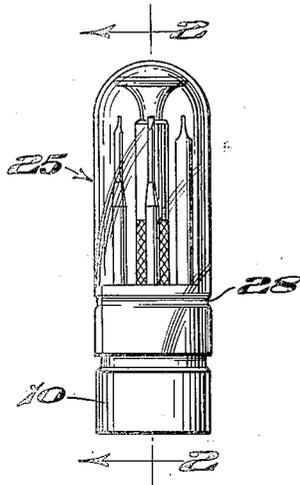


Fig. 1.

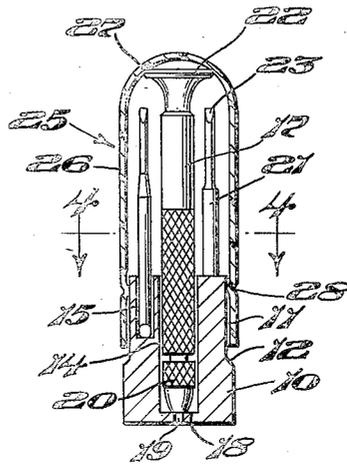


Fig. 2.

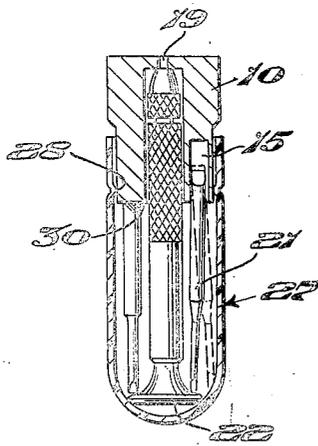


Fig. 3.

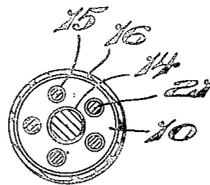


Fig. 4.

INVENTOR.

William S. Moody

BY

Parlow & Parlow
Attorneys

UNITED STATES PATENT OFFICE

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TOOL PACKAGE

William S. Moody, Cranston, R. I., assignor to
Moody Machine Products Co., Inc., a corpora-
tion of Rhode Island

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5 Claims. (Cl. 206—17)

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This invention relates to a package for a set of tools, more particular small tools which may be readily carried about by the user.

Tools have heretofore been assembled in open stands and sometimes these stands have been covered. The character of the stands has been such that if the stands were inverted or subjected to shaking up such as in transportation from one point to another the tools would slide out of their mounting and it would be necessary to re-assemble the tools with their base if the stand were to function in a normal manner. Further, the covers which have been heretofore provided have been of such a nature that they may become detached from their base and again fail to perform their function of protecting the tools.

One of the objects of this invention is to provide a package which will be of such a character that the cover will not become removed in shipment.

Another object of this invention is to provide a cover of such a character as to maintain the tools in such relation that when the package is placed in an upright position after being inverted the tools will all fall back into their normal position into which they have been assembled and which it is desired that they should be positioned for use or sales purposes.

Another object of this invention is to provide a cap which is of such a character that the tools may be readily viewed through the cover so that they will have a sales appeal.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings:

Figure 1 is an elevation illustrating the package;

Figure 2 is a sectional view through substantially the center of the package;

Figure 3 is a view similar to Figure 2 but showing the package in inverted relation; and

Figure 4 is a section on line 4—4 of Figure 2.

In proceeding with this invention I provide a base of light-weight material and recess the upper end of the base so as to receive a tool holder and a plurality of tools about the holder. The tool holder has a circular handle and in order to maintain the holder in desired position a cover of transparent character having a dome top will engage the circular handle and by reason of frictional engagement with the base will maintain the holder securely in assembled relation with

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the base and against axial movement in the base. The space provided by the cover and the relative position of the tools in the base and within the cover is such that the tools cannot leave the sockets in which they are positioned in the base when they engage the cover, which limits their movement. The curved end of the cover also directs the tools toward the center which aligns them with their sockets and makes it simple for the tools to slide back into the sockets when the package is placed upright from its inverted position.

With reference to the drawings, 10 designates the base which I have found convenient to form of a light-weight metal such as aluminum. The base is cylindrical with a reduced upper portion 11 forming a shoulder 12. At a central location in the base and extending axially thereof there is a recess 14 while smaller recesses 15 are arranged along a circular line about the recess 14 spaced therefrom approximately half way between the center recess 14 and the outer periphery of the base 16 (see Figure 4). A tool holder 17 is positioned in the central recess 14 with its end against the bottom 18 of the recess 14. An opening 18 for venting the recess is provided through the bottom of the base. This tool holder has a manually operable clutch at 20 for removably receiving a selected one of a plurality of tools 21, while at its opposite end there is a circular handle 22 provided which is swivelly related about the axis of the holder 17 for convenience in operation. This handle 22 has a recessed top. Within the smaller recesses 15 about the tool holder 17 the plurality of tools 21 are positioned, each one of the tools having an end shank or blade 23 of a different size so that the selected size may be utilized for small screws as is desired.

A transparent cap 25 having a cylindrical body 26 and a closed dome-like end 27 which partakes something of the shape of a portion of a sphere is of a size so as to telescope over the reduced portion 11 of the base and tightly frictionally fit this portion 11. Along the portion of the cap which engages the portion 11, I have deflected the stock of the cap inwardly as at 28 so that this portion yields resiliently as the cap is forced into position and serves to assist in more tightly gripping this portion of the base.

If the package is inverted as shown in Figure 3, the tools will slide somewhat in their recesses 15, perhaps initially against the surface of the cap as shown in dotted lines, but as the tool strikes the inwardly inclined portion of the cap

it will be directed so as to engage the circular handle 22 and maintain the tools substantially parallel to the holder and in line with their recess 15 so that when again placed right side up, as shown in Figure 2, the tools will all drop readily into the sockets 15 provided for them.

By forcing the cap onto the base with a tight friction fit sufficiently to engage along a circular line, the handle 22, the tool holder is maintained firmly against movement with relation to the base and the cap and prevents rattling of a heavy portion of the package. Thus, in shipment no harm comes to the merchandise. The distance between the top 30 of the base and the end of the cap is of importance in preventing the tools from being dislodged from their recesses.

I claim:

1. A tool package comprising a cylindrical base having a central axial recess with a tool holder having one end portion therein and a circular head at the other end, said base also having a plurality of recesses arranged about said axial recess and spaced therefrom, a plurality of tools to fit into said holder located in said plurality of recesses, a cylindrical cap having a curved dome-like closed end engaging the circular head of the tool holder along a circular line and an open end telescoped over said base and tightly frictionally gripping the same to maintain the holder engaging the end of said central recess in which it is located and encasing said tools.

2. A tool package as in claim 1 wherein the

distance between the end of said plurality of tools when in the bottom of their recesses and the curved end of the cap is less than the depth of each of said recesses whereby the tools cannot come out of said recesses when the package is inverted.

3. A tool package as in claim 1 wherein the distance between the end of said plurality of tools when in the bottom of their recesses and the curved end of the cap is less than the depth of each of said recesses whereby the tools cannot come out of said recesses when the package is inverted and whereby they will be directed inwardly by said curved closed end.

4. A tool package as in claim 1 wherein said cap along the telescoped portion is deflected inwardly to provide a rib engaging the base.

5. A tool package as in claim 1 wherein the cap is of transparent material.

WILLIAM S. MOODY.

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