The present invention relates to containers and more particularly to a container for various size twist drills.

Devices of this general type are known to the art but have not heretofore enabled the goods within the container to be readily accessible for insertion and removal nor clearly observable while housed within such container.

It is accordingly an object of the present invention to provide a container especially for twist drills wherein the latter may be readily inserted and removed individually from such container without disturbing the remaining drills within the container.

Another object of the present invention is the provision of a container for twist drills wherein the drills are securely housed against accidental dislodgement from separate compartments within the container and yet such drills may be individually readily removed without disturbing any of the other drills in their separate compartments.

A further object of the present invention is the provision of a container for twist drills wherein the latter may be readily inserted and removed individually from separate compartments within such container and in which at least a portion of such container is sufficiently transparent to enable the user to select the proper size drill for his purpose.

Still further objects of the present invention will become obvious to those skilled in the art by reference to the accompanying drawing wherein:

Figure 1 is a front elevational view of the drill container of the present invention, with a portion of the container broken away to better illustrate the device.

Fig. 2 is a side elevational view of the container as shown looking at the right side of Fig. 1.

Fig. 3 is a top view of the container as shown in Fig. 1.

Fig. 4 is a cross-sectional view taken on the line IV—IV of Fig. 1 looking in the direction of the arrows.

Fig. 5 is a cross-sectional view on a slightly larger scale taken on the line V—V of Fig. 1 and looking in the direction indicated by the arrows.

Fig. 6 is a cross-sectional view on a slightly larger scale taken on the line VI—VI of Fig. 1 and again looking in the direction indicated by the arrows, and

Fig. 7 is an inverted side view showing the manner in which one of the desired size twist drills is removed from the container.

Referring now to the drawing more in detail for a better understanding of an embodiment which the present invention may take, there is shown in Fig. 1 a slightly distorted segmental or fan-shaped container preferably formed of a back 6 which may have a base 7 molded as an integral part thereof and an arcuate-shaped front cover plate 8. Although this container 5 may be formed of metal or the like, I prefer, for purposes of economy, to make it of a plastic composition and while the back 6 may be of any selected color of plastic, the front plate 8 is desirably transparent, at least sufficiently as to make the twist drills 9 housed within the container sufficiently observable so that the desired size of drill 9 may be selected by the user.

As can be seen from the several figures, the back 6 is provided with a plurality of integral partitions 10 of varying length extending normal to its surface which together with the slightly arcuate-shaped front cover plate 8 form a series of longitudinally extending narrow compartments 12 varying in width and depth so as to accommodate therein individual twist drills varying in size. Spaced a short distance above the upper end of the partitions 10, but in line therewith, the back plate is provided with slots 13 extending to the upper end thereof, so that flexible fingers 14 are thus formed in alignment with each of the compartments 12. It will also be noted, especially from Figs. 1, 4 and 7, that each of the flexible fingers 14 is provided with a lateral projection 15 adjacent their upper end which extends toward the arcuate-shaped transparent front plate 8 and may even contact the latter, to thus close the upper end of each compartment 12 and preventing the twist drills 9 from accidentally dropping out of their respective compartments when the container is inverted.

When a user wishes to remove a twist drill 9 from the container 5 it is only necessary to spring the selected flexible finger 14 in a direction away from the front cover plate 8, as shown in Figs. 4 and 7 and upon inverting the container 5 in the manner shown in Fig. 7, the desired size twist drill 9 will drop readily out of its respective compartment 12 without disturbing any of the other drills within the container, since all the other drills are prevented from sliding out of their individual compartments by the lateral projection 15 forming with the front plate 8 an end closure for the compartments 12.

In order to secure the arcuate-shaped front plate 8 to the back 6, such front plate is provided with a pair of lugs 16 and 17 at each side thereof, which are engageable with a pair of corresponding notches 18 and 19 provided in each side wall 20 of the back 6, as shown in Figs. 1 and 2. Due to the tension of the arcuate-shaped front plate 8 the lugs 16 and 17 are accordingly maintained securely in these side wall notches 18 and 19.

It should thus become obvious to those skilled in the art that a container for twist drills has been provided by the present invention which is exceptionally economical to manufacture. Moreover by making the front plate at least partially transparent, the desired size twist drill can be readily selected and removed from the container, simply by springing the corresponding compartment finger, with its lateral projection, out of the way, thus enabling the selected drill to quickly slide out of its individual compartment without in any way disturbing or dislodging the remaining drills within their separate compartments. When use of the selected drill is completed it can be just as readily restored in its individual compartment by again springing the flexible finger away from the face plate and dropping the drill into its compartment.

Although one embodiment of the present invention has been shown and described, it is to be understood that still further embodiments thereof may be made without departing from the spirit and scope of the appended claims.

1 claim:

1. A container for twist drills of various sizes and lengths comprising a back, a cover plate spaced from said back, a plurality of longitudinally extending partitions of varying length disposed between said said back and said cover plate and forming therewith a series of narrow compartments of varying lengths and widths to accommodate said twist drills, a series of slots in said container in alignment with said partitions to form a plurality of longi
3. A container for twist drills of various sizes and lengths comprising a back having a substantially arc-shaped top edge, a cover plate spaced from said back and secured thereto with at least a portion of said cover plate being transparent to enable the twist drills to be observed while in said container, a plurality of longitudinally extending partitions of varying length molded integrally with said back and disposed normal to the surface thereof for a portion of the length of said back and forming a series of narrow compartments with said cover plate to accommodate said twist drills, a series of slots in said back substantially in alignment with said partitions to form a plurality of flexible fingers corresponding in number to said compartments and provided with lateral projections adjacent their upper end extending toward said cover plate to prevent accidental dislodgement of said twist drills from said compartments but said fingers being bendable to move said lateral projections out of the way of the free removal of said individual twist drill from its separate compartment when desired, and at least a portion of said cover plate being transparent to enable said twist drills to be observed while in said container, a plurality of partitions of varying length molded integrally with said back normal thereto and extending longitudinally thereof for a portion of its length to form a series of narrow compartments with said partially transparent cover plate for the accommodation of said twist drills, a plurality of slots extending downwardly from the arc-shaped top edge of said back and substantially in alignment with said partitions to form flexible fingers corresponding in number to said compartments and each finger having a lateral projection adjacent its upper end extending toward said cover plate to close the end of said compartment and prevent accidental dislodgement of said twist drills from their respective compartments but said fingers being bendable to move said lateral projections out of the way of the free removal of each individual twist drill from its separate compartment when desired, and a base, molded integral with said back, to enable said container to be maintained in an upright position.

5. A container for twist drills of various sizes and lengths comprising a back of molded plastic material having a substantially arc-shaped top edge and provided with notches in each of its side walls, a cover plate of molded transparent plastic material of substantially matching configuration to that of said back and provided with lugs engaging the notches in said back to secure said back and cover plate together in a spaced relation relative to their parallel surfaces, a plurality of partitions of varying length molded integrally normal to said back and extending longitudinally thereof upwardly from the bottom for a substantial distance of said back and forming with said transparent cover plate a series of narrow compartments for the accommodation of said twist drills, a plurality of slots extending downwardly from the arc-shaped top edge of said back and substantially in alignment with said partitions to form a plurality of flexible fingers corresponding in number to said compartments and each finger having a molded integral projection adjacent its upper end extending toward said cover plate to close the end of said compartment and prevent accidental dislodgement of said twist drills from their respective compartments but said fingers being bendable to move said lateral projections out of the way of the free removal of each individual twist drill from its separate compartment when desired, and a base, molded integral with said plastic back to enable said container to be maintained in a vertical position.

References Cited in this file of this patent.

UNITED STATES PATENTS

2,506,199 Coley ------------------ May 2, 1950
2,666,967 Poitrat ------------------ Jan. 26, 1954

FOREIGN PATENTS

504,716 France ------------------ Oct. 9, 1919
225,154 Great Britain ------------------ Nov. 27, 1924