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CONTAINER FOR HOLDING A SET OF DRILLS AND PUNCH

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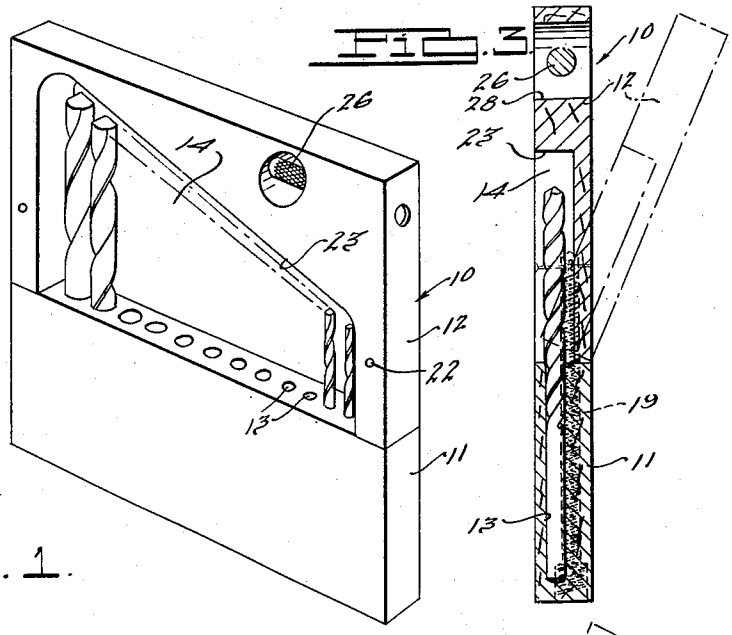


FIG. 1.

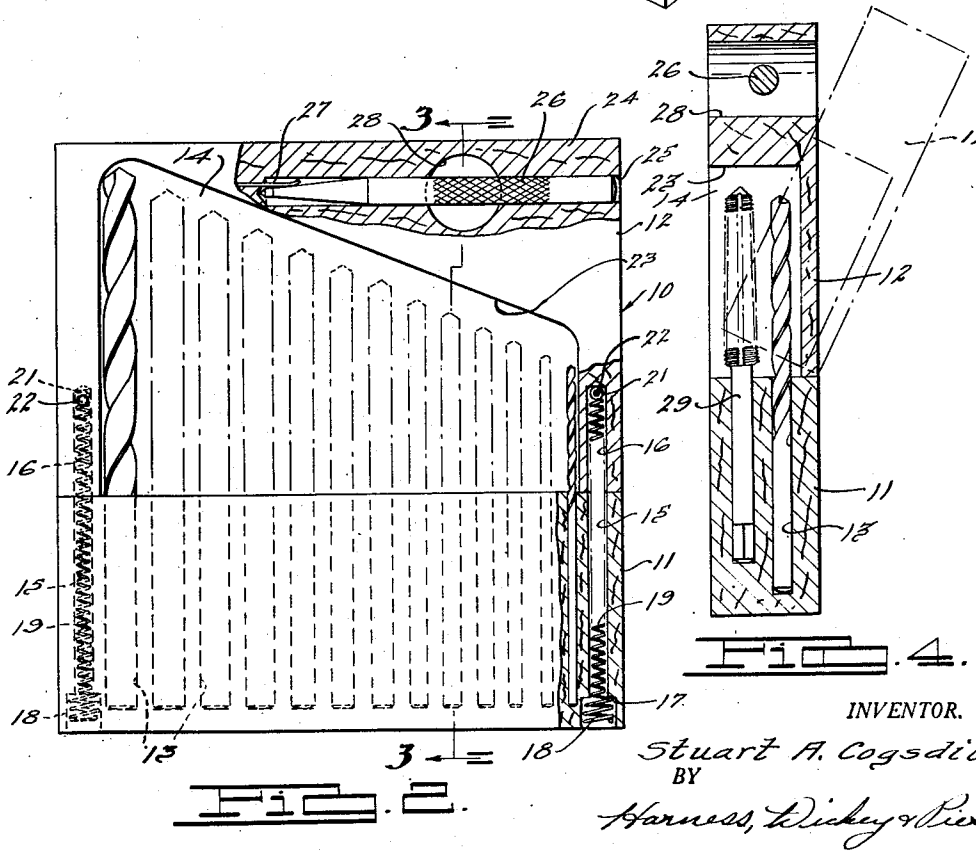


FIG. 2.

FIG. 3.

FIG. 4.

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CONTAINER FOR HOLDING A SET OF DRILLS AND PUNCH

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4 Claims. (Cl. 206—17)

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This invention relates to tool containers, and particularly to a container for drills, reamers, punches and the like.

The container of the present invention embodies a base block of wood having a series of holes drilled therein for receiving the shanks of different size drills, reamers and the like. The cover element for the case embodies a second block of the same length and thickness as the base block, having a cavity routed in the face thereof for receiving the ends of the tools projecting from the base block when the two blocks are in aligned relation. When the tools are of different lengths, the tips will be disposed along a line sloping at an angle to the base of the block. The top edge of the cavity routed from the cover block is also sloped to be adjacent to the tips and to prevent the tools from being removed or from falling from the base block when the cover block is aligned therewith. Aligned apertures are provided in the two blocks along the side edges in each of which a spring is disposed and anchored to each of the blocks under tension to form a spring hinge to retain the blocks aligned and to permit the cover block to be hinged backwardly from the base block and uncover the tools.

The cover block is made rectangular and when the cavity has the upper edge disposed at an angle a corner is provided in which a punch may be recessed so as to be available when the drills or other tools are used. An aperture is disposed through the block intersecting the aperture in which the punch is disposed so that the thumb and forefinger may be employed on each side of the block in the aperture for engaging and moving the punch outwardly of the cover block. A spring is provided in the punch receiving aperture in position to engage the end of the punch for securing it in the aperture. One or a plurality of rows of tools may be encased in this manner and retained against loss by the cover but rendered accessible when the cover is tilted backwardly on the base block.

Accordingly, the main objects of the invention are: to provide a container for tools which is simple in construction and economical of manufacture; to provide a container for tools which is made from a base block and a cover block, the former of which is provided with apertures for receiving the shanks of the tools, the latter of which has a recess in which the tools extend when the two blocks are in aligned relation; to form a container for tools from a base block having apertures of different sizes for receiving

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the shanks of tools and a cover block having a recess for encompassing the tip ends of the tools when in aligned relation with the base block, with the blocks retained in aligned relation by spring hinges disposed in apertures therein; and, in general, to provide a container for tools which retains the tools in position readily accessible for use.

Other objects and features of novelty of the invention will be specifically pointed out or will become apparent when referring, for a better understanding of the invention, to the following description taken in conjunction with the accompanying drawing, wherein:

Figure 1 is a perspective view of a container for holding tools embodying features of this invention;

Fig. 2 is a view in elevation, with parts in section, of the container illustrated in Fig. 1;

Fig. 3 is a sectional view of the structure illustrated in Fig. 2, taken on the line 3—3 thereof, and

Fig. 4 is a view of structure, similar to that illustrated in Fig. 3, showing a modified form thereof.

Referring to the figures, a container 10 is illustrated, embodying a base block 11 and a cover block 12 which are made of wood. A hard wood such as birch, maple and the like is preferably employed so that a durable case will be provided having a pleasing appearance. It is to be understood that other material, such as plastic, metal and the like can also be employed in the construction of the cover and base blocks. The base block 11 is provided with a plurality of apertures 13 of progressively increasing size, of such diameter as to receive the shanks of a series of different sized drills, as illustrated in the figure. The cover block 12 has a cavity 14 cut in the face thereof of such depth as to cover the tool ends projecting from the base block 11 when the two blocks are in aligned relation. Thirteen drills running in sixty-fourths from 1/16" to 1/4" inclusive, can be supported in a case approximately 4½" square and 3/8" thick. The sizes of the drills are preferably stamped in the base block on the front surface thereof in alignment with the respective drills.

Apertures 15 are provided in the side edges of the base block which extend entirely therethrough in alignment with apertures 16 extending a substantial distance within the cover block, as illustrated in Fig. 2. The apertures 15 at the bottom of the base block are enlarged at 17 to receive the enlarged ends 18 of springs 19, hav-

ing on the upper end a hook or eye 21. A tool is employed which extends through the spring 19 in engagement with the hook 21 to stretch the spring when advancing the hook into engagement with the ends of the apertures 16. A tack 22 is driven from the back face of the cover block 12 through the hook 21 when the spring is stretched to retain the spring tensioned within the apertures 15 and 16. The enlarged end 18 of the springs secures the lower end of the spring in the bottom of the aperture 15. The springs retain the cover block in alignment with the base block but permit the cover block to be tilted backwardly to render the tools accessible for use.

It will be noted that the cavity 14 has the upper edge 23 sloping to conform with the ends of the tools mounted in the base block 11 so as to provide approximately the same clearance between the tips of the tools and the edge 23 of the cavity. This provides a corner 24 in the cover block in which an aperture 25 is drilled for the reception of a punch 26. A spring 27, preferably of the flat type, is driven into the end of the aperture 25 in position to engage the tip end of the punch 26 for locking it in the aperture. An aperture 28 is provided through the front face of the cover block in the corner 24 transverse of the aperture 25 which it intersects, to permit the thumb and forefinger to engage the punch on opposite sides of the cover block and move it outwardly of the aperture 25. Since the punch is always used with drills, taps and like tools, the container supports the punch so that it is available with the tools carried thereby.

In Fig. 4 a slightly modified form of the invention is illustrated, that wherein the thickness of the cover and base blocks of the container are increased to support and cover a plurality of rows of tools, such as drills and reamers 29. Accordingly, various changes may be made to the base and cover blocks to conform to the number and size of the tools which are to be encased thereby. When fewer tools are employed, the container can be made much narrower than the height and when tools of larger diameter are to be encased thereby, the thickness of the container is increased. When a plurality of rows of tools are supported in the container, as illustrated in Fig. 4, the apertures 15 and 16 for the hinge springs are preferably disposed near the back face of the blocks to permit the hinge action of the cover block relative to the base block without unduly stretching the springs.

What is claimed is:

1. A container for supporting a plurality of tools embodying a base block made of wood having apertures drilled therein through an edge surface thereof for receiving the shanks of tools and supporting each of said tools with one end extending outwardly of said base block, a cover block therefor likewise made of wood having an edge surface adapted to abut said surface of said base block and having a cavity provided in the front face thereof communicating with said edge surface thereof to receive the ends of the tools

projecting from the base block, and hinge means for supporting and yieldably holding the two blocks in aligned relation with said edge surfaces thereof in abutting relationship while permitting said cover block to hinge relative to said base block.

2. A container for supporting a plurality of tools embodying a solid base block having apertures therein for receiving the shanks of the tools, a solid cover block therefor having a cavity provided in its front face to receive the ends of the tools projecting from the base block, hinge means for supporting and yieldably holding the two blocks in aligned relation while permitting the cover block to hinge relative to the base block, said cover block having above said cavity an aperture for receiving a punch, and locking means in said aperture for engaging a lateral surface of said punch for securely retaining said punch therein.

3. A container for supporting a plurality of tools embodying a solid base block having apertures therein for receiving the shanks of the tools, a solid cover block therefor having a cavity provided in its front face to receive the ends of the tools projecting from the base block, hinge means for supporting and yieldably holding the two blocks in aligned relation while permitting the cover block to hinge relative to the base block, said cover block having above said cavity an aperture for receiving a punch, and locking means in said aperture for engaging a lateral surface of said punch for securely retaining said punch therein, said cover block having an aperture extending through the front face thereof in communication with said punch aperture.

4. A container for supporting a plurality of tools embodying a solid base block having apertures therein for receiving the shanks of the tools, a solid cover block therefor having a cavity provided in its front face to receive the ends of the tools projecting from the base block, hinge means for supporting and yieldably holding the two blocks in aligned relation while permitting the cover block to hinge relative to the base block, said cover block having above said cavity an aperture for receiving a punch, and spring means in said aperture for engaging a lateral surface of said punch for securely retaining said punch therein.

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