

ference of the body 26 providing additional stability. Each corner of the bottom plate 28 is broken or cut at an angle so that no sharp corners remain, as shown in FIG. 1. Elimination of sharp corners eliminates the incidences of gouging or other types of damage which may be encountered during shipment and storage of the container 10. In the event a container 10 is dropped or turned on its side, the substantially square shape of the base plate 28 insures that the container 10 will not roll, and thereby substantially reducing the jolting action and possible damage to the drill bit contained within the container 10.

Most drill bits are of the three cone type having a plurality of teeth extending therefrom for drilling the well. During shipment, the drill bit teeth may be damaged if the drill bit is not securely anchored within the container 10. To substantially reduce the risk of damaging the drill bit teeth, a removable insert 30 is positioned on the bottom 28 of the inner member of the container 10. The drill bit rests on the insert 30 and the drill bit teeth dig into and grab the insert 30 so that sideward movement of the drill bit is prevented. The insert 30 is press fit in the body 26. The weight of the bit on the insert 30 also tends to substantially eliminate any movement of the insert 30 within the container 10. The insert 30 may be a piece of wood cut to the appropriate shape, for example, ply wood. The insert 30, however, is not limited to ply wood as it may be of any resilient or cushioning-type material having the capability of cushioning the drill bit and preventing the drill bit teeth from impacting the bottom 28 of the container 10.

Referring again to FIG. 2, it will be observed that the container 10 of the present invention receives the drill bit within a cavity defined by the tubular body 26 of the inner component of the container 10. The tubular body 12 of the outer component of the container 10 slides over the body 26. The threaded shank of the drill bit extends through the opening 22 in the ring plate 14. In FIG. 2, the body 12 of the outer member is depicted as substantially enclosing the body 26 of the inner member. In the event the drill bit has a longer body, the outer component may only partially telescope or slide over the inner component. The body 12 of the outer component is limited in its downward movement over the inner component upon engagement of the edge 24 of the ring plate 14 with the beveled or tapered back surface of the drill bit as shown in FIG. 2.

Referring now to FIGS. 1 and 7, the take up latch for locking the components of the container 10 together is shown in greater detail. The latch includes an upstanding angle bracket 32 welded to the bottom plate 28. Two angle brackets 32 are provided. The angle brackets 32 are welded adjacent opposite corners of the base plate 28. One side forming the angle brackets 32 includes a plurality of spaced apertures 34 for receiving the hook end 36 of the take up bolt 20 therethrough.

As best shown in FIG. 7, the take up bolt 20 comprises a hook end 36, a take up tube 37, a threaded shaft 38, and a heavy-duty wing nut 40. The upper end of the take up tube 37 is provided with intended threads for threadably engaging the shaft 38. The elements of the take up bolt 20 are welded together to form a single component permanently mounted to the outer component body 12.

The take up bolt 20 is assembled by initially threading the shaft 38 through the tube 37. The lower end of the shaft 38 is not threaded at 39. Once the shaft 38 and the tube 37 are threaded together as shown in FIG. 7, the

shaft 38 and tube 37 cannot be separated. The blank on the shaft 38 at 39 acts as a stop to prevent separation of the shaft 38 from the tube 37. The hook 36 is then welded to the lower end of the take up tube 37. The upper end of the shaft 38 is advanced through the hole in the tabs 18 and the wing nut 40 is welded to the upper end of the shaft 38. Once assembled in this manner, the take up bolt is permanently mounted to the ring plate 14 and cannot be lost or misplaced.

Referring now to FIG. 3, it will be observed that the angle brackets 32 and the body 26 of the inner component define a gap therebetween permitting the body 12 of the outer component to slide down between the body 26 of the inner component and the angle brackets 32. As previously mentioned, the body 12 slides down over the body 26 until the tapered back surface of the drill bit is engaged by the edge 24 of the ring plate 14. At this point, the take up bolt 20 is adjusted to extend through one of the apertures 34 in the angle brackets 32. The wing nuts 40 are turned to advance the shaft 38 into the tube 37, thereby forcing the outer component downward to force the drill bit to dig into the insert 30.

In FIGS. 4-6, an alternate embodiment of the invention is disclosed. The embodiment of the invention described heretofore in FIGS. 1-3 is substantially the same as the embodiment shown in FIGS. 4-6. Therefore, like reference numerals are employed in the description of the embodiment shown in FIGS. 4-6 to identify similar components.

Referring now to FIG. 4, the alternate embodiment of the invention is generally identified by the reference numeral 50. The container 50 includes an outer and inner component defined by the tubular bodies 12 and 26, respectively. A pair of handles 52 are mounted to the body 12 of the outer component. The handles 52 may be welded or otherwise mounted to the body 12 and extend outwardly therefrom substantially perpendicular to the body 12. The handles 52 are positioned so that they may be easily engaged by a forklift (not shown in the drawing) or other like device for lifting the container 50. The area on the body 12 below the handles 52 is free of any obstructions so that the forks of forklift may slide under the handles 52 and thereby lift the container 50 for loading and unloading for shipment or movement about the well site.

Tie down or fastening of the outer component to the inner component is accomplished by a flat strap fastener arrangement. A pair of U-shaped brackets 54 are welded adjacent opposite corners of the base 28 as shown in FIGS. 4 and 5. The brackets 54 includes a pair of legs 56 which extend upwardly to define a space therebetween. The legs 56 include aligned holes for receiving a clevis pin 58 therethrough. One end of the clevis pin 58 includes an enlarged head so that it cannot pass through the aligned holes in the legs 56. The opposite end of the clevis pin 58 includes a drilled hole therethrough for receiving a hair pin cotter 60 to lock the clevis pin 58 to the brackets 54. A flexible line or wire 55 connects the pin 60 to the clevis pin 58 so that the pin 60 is not separated from the clevis pin 58.

A pair of brackets 62 are mounted to the body 12 of the outer component so that when the two components are properly positioned, the brackets 62 are in substantial alignment with the brackets 54. The brackets 62 are U-shaped, having the legs 64 thereof welded to the body 12. The legs 64 include aligned square holes for receiving a split bolt 66 therethrough.