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FOLDABLE HOLDER AND MANIPULATOR FOR BOTTLES

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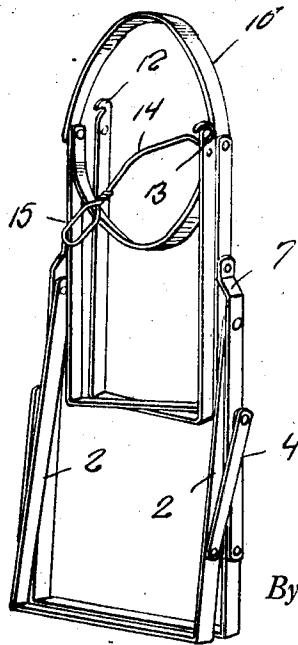
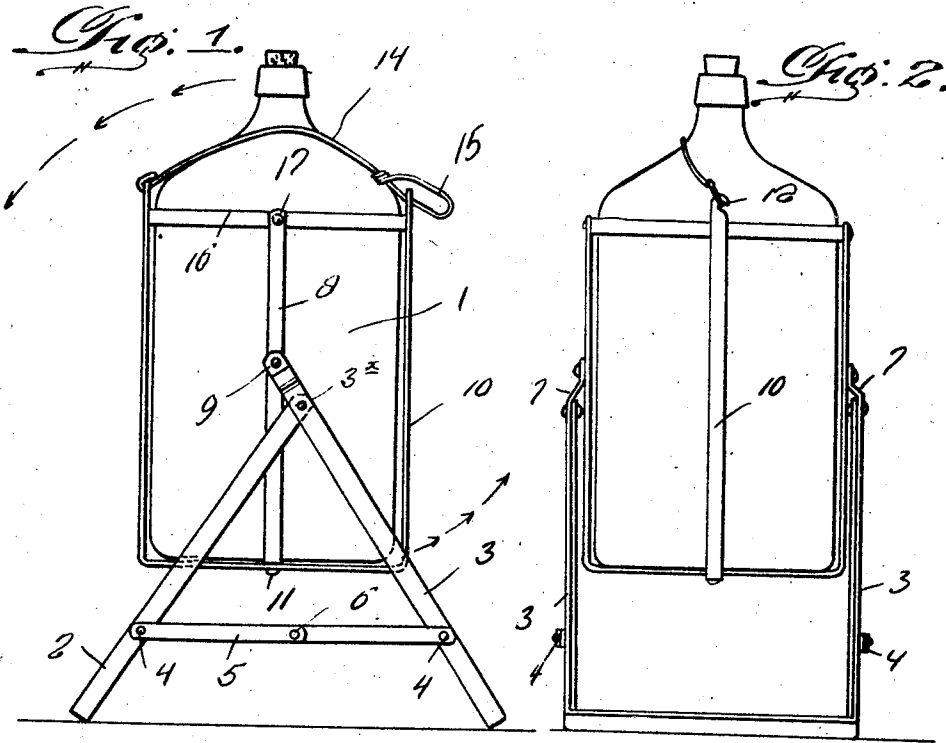


Fig. 3.

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FOLDABLE HOLDER AND MANIPULATOR FOR BOTTLES.

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My present invention has to do with devices for holding bottles and the like in such manner that the bottles or analogous devices may be swung vertically with a view to facilitating the discharge of the contents thereof; and the general object of my said invention is the provision of a holder and manipulator for bottles and the like, characterized by capacity to be folded into a bundle of small compass for storage or shipment, and also characterized by means for holding a body such as a bottle in such manner that subsequently to tilting of the bottle for the discharge of contents thereof, the release of the bottle will be followed by the gravitational return of the bottle to and the yielding maintenance of the same in an upright position in the holder.

Other objects and practical advantages of the invention will be fully understood from the following description and claims when the same are read in connection with the drawings, accompanying and forming part of this specification, in which:—

Figure 1 is a side elevation illustrating my novel holder in use.

Figure 2 is an elevation taken at right angles to Figure 1.

Figure 3 is a perspective showing my novel holder in its folded state.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

I show in Figures 1 and 2 a bottle 1 of the type generally used to contain mineral water and the like. I also show in Figures 1 and 2 the bottle 1 properly associated with my novel and advantageous holder. Among other elements the foldable holder comprises a U-shaped leg 2, of sheet metal. Adjacent to its ends the said leg 2 is pivotally connected, as indicated by 3*, to intermediate portions of the side of a similar, though longer, leg 3. Arranged at opposite sides of the legs 2 and 3 and pivotally connected at 4 thereto are links 5, the links 5 of each pair being pivotally connected together as designated by 6 so as to permit folding of the links 5 when the holder is folded as shown in Figure 3, and the inner edge portions of the leg 2 rest adjacent to the corresponding edge portions of the leg 3. The portions of the leg 3 above the pivot connection 3* are deflected slightly inward as designated by 7, Figures 2 and 3, and pivotally connected to the ends of the leg 3 is a bail-shaped member 8 comprised in the bottle receptacle of the device. The point of suspension of the bail-shaped member 8 is designated by 9, and when the bottle is in upright position, Figures 1 and 2, it will be noted that the major portion of the said receptacle is below the point of suspension 9, and consequently when the holder and the bottle therein are in upright position the holder or receptacle and the bottle therein will be yieldingly maintained in upright position; and again, it will be noted that subsequently to tilting of the bottle in the receptacle formed in part by the bail-member 8, the release of the bottle will be followed by the return of the receptacle and the bottle to upright position. In addition to the bail-shaped member 8, the bottle receptacle comprises an auxiliary bail-shaped member 10, the bottom bar of which is pivotally connected to the center of the bottom bar of the member 8 as designated by 11, this in order to permit of the members 8 and 10 being relatively arranged as shown in Figure 3 when the holder is folded or collapsed for storage or shipment. Manifestly when the device is unfolded and it is desired to put the same into use, the member 10 is swung to a position at right angles to the member 8 as appears in Figures 1 and 2. The side portions of the member 10 are longer than the side portions of the member 8 in about the proportion illustrated, and one terminal portion of the member 10 is provided with a hook 12, Figures 2 and 3, and the other terminal portion of the member 10 is provided with an aperture 13. One end of a wire handle 14 is connected to the apertured end 13 of the member 10, and at its opposite end the said wire 14 is provided with an elongated loop 15 adapted to be moved laterally into and out of engagement with the hook 12, the said loop 15 being shown in engagement with the hook 12 in Figures 1 and 2. With the handle 14 arranged and engaged as shown in Figures 1 and 2, it will be readily seen that the holder and the bottle therein may be handled with facility and carried from place to place, and it will also be understood that when the handle 14 is subjected to stress or pull as when the weight of the holder

and bottle are imposed on the handle 14, the handle 14 in engagement with the hook 12, will operate to hold the bail-shaped member 10 in proper relation to the bail-shaped member 8, i. e., at right angles to said member 8.

When the handle 14 is disengaged from the hook 12, and the bottle is removed from the holder, the legs 2 and 3 and their connecting links 5 may be compactly folded as appears in Figure 3, and the bail-shaped member 10 may be swung upon the pivot connection 11 until said member 10 rests almost in parallelism with the member 8, and it will also be noted that a ring 16 which receives the upper portion of the bottle and which is pivotally connected at 17 to the end portion of the member 8, may be swung to the position shown in Figure 3—that is to say, in such a position that the ring 16 rests in the same vertical plane as the member 8, this being materially advantageous inasmuch as it contributes to the compactness of the device in its folded state.

When my novel device is folded, and it is desired to unfold the same and set it up ready for use, the legs 2 and 3 are relatively arranged and braced as shown in Figures 1 and 2, the ring 6 is swung to a position at right angles to the upright portions of the member 8, and the member 10 is swung horizontally on the pivot connection 11 to a position at right angles to the member 8. The bottle is then placed in the receptacle formed by the members 8 and 10, and the elongated loop 15 of the handle 14 is engaged with the hook 12 of the member 10, whereupon the device is ready for use, either for the tilting of the bottle with facility, or for the carriage of the holder with the bottle therein from one point to another.

Notwithstanding the practical advantages of my novel folder as pointed out in the foregoing, it will be understood that the holder is not unduly expensive. It will also be understood that being formed entirely of appropriate metal or metals the holder is well adapted to withstand exposure, and is also well adapted to withstand the handling or usage to which devices of corresponding character are ordinarily subjected.

I have entered into a detailed description of the construction and relative arrangement of the parts embraced in the present and preferred embodiment of my invention in order to impart a full, clear and exact understanding of said embodiment. I do not desire, however, to be understood as confining myself to the specific construction and relative arrangement of parts as disclosed, my invention being defined by my appended claims within the scope of which changes in structure and changes in arrangement may be made without departure from my invention.

Having described my invention, what I claim and desire to secure by Letters Patent, is:—

1. In a foldable bottle holder and in combination, U-shaped legs pivotally connected together, the side portions of one leg being longer than the corresponding portions of the other leg and being extended above the pivot connections, foldable links connected together and interposed between and pivotally connected to the side portions of the legs, a bail-shaped receptacle member having its side portions pivotally connected at intermediate points in the length thereof to the extended portion of the comparatively long leg, a ring arranged between and pivotally connected to the side portions of said U-shaped member and adapted to be swung to and from a position in substantially the same vertical plane as said side portions, a second U-shaped receptacle member having its lower portion pivotally connected to the lower portion of the first-named receptacle member and swingable horizontally to and from a position approximately at right angles to the first-named member, the side portions of the second U-shaped member being longer than the corresponding portions of the first-named member and one of said end portions of the U-shaped member being apertured and the other equipped with a hook, and a handle rod connected to the apertured end of the second-named receptacle member and having a loop at its opposite end movable laterally into and out of engagement with said hook.

2. In a foldable bottle holder and in combination, U-shaped legs pivotally connected together, the side portions of one leg being longer than the corresponding portions of the other leg and being extended above the pivot connections, foldable links connected together and interposed between and pivotally connected to the side portions of the legs, a bail-shaped receptacle member having its side portions pivotally connected at intermediate points in the length thereof to the extended portion of the comparatively long leg, a ring arranged between and pivotally connected to the side portions of said U-shaped member and adapted to be swung to and from a position in substantially the same vertical plane as said side portions, a second U-shaped receptacle member having its lower portion pivotally connected to the lower portion of the first-named receptacle member and swingable horizontally to and from a position approximately at right angles to the first-named member, the side portions of the second U-shaped member being longer than the corresponding portions of the first-named member and one of said end portions of the U-shaped member being apertured and the other equipped with a hook, and a

handle rod connected to the apertured end of the second-named receptacle member and having a loop at its opposite end movable laterally into and out of engagement with said hook; the extended portion at the ends of the comparatively long leg being deflected inwardly, and the bail-shaped member of the receptacle being pivotally connected to the said end portions of the leg, and the major portion of the receptacle being located below the said pivotal point or point of suspension. 10

In testimony whereof I affix my signature.

L. Z. SCHLABAUGH.