Nov. 3, 1925. 1,559,792

W. G. SEABOLD

CARBOY SUPPORTING DEVICE

Filed Dec. 22, 1922

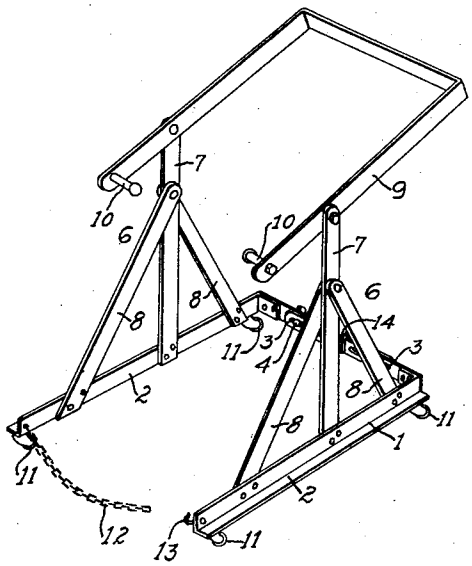


Fig. I

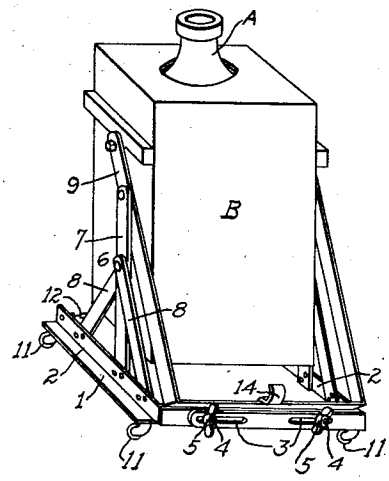


Fig. II

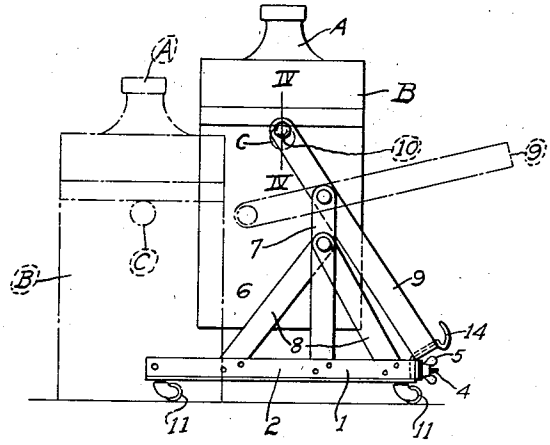


Fig. III

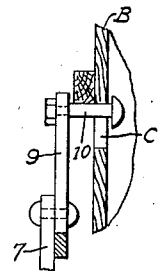


Fig. IV

Inventor
W. G. SEABOLD
By Cook & McCauley
Attorneys

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UNITED STATES PATENT OFFICE.

WALTER G. SEABOLD, OF ALTON, ILLINOIS, ASSIGNOR TO ILLINOIS GLASS COMPANY, OF ALTON, ILLINOIS, A CORPORATION OF ILLINOIS.

CARBOY-SUPPORTING DEVICE.

Application filed December 22, 1922. Serial No. 608,447.

To all whom it may concern:

Be it known that I, WALTER G. SEABOLD, a citizen of the United States, a resident of Alton, in the county of Madison and State of Illinois, have invented certain new and useful Improvements in Carboy-Supporting Devices, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates generally to carboy-supporting devices, and particularly to a carboy-supporting device which will permit of said carboy being transported from place to place and which is so arranged that said carboy may be easily tilted to empty its contents.

Prior to this invention the handling of a carboy containing liquid was, because of its weight, an extremely difficult task, and the object of the present invention is to produce a simple and inexpensive carrying device which may be readily moved from place to place and by the use of which a carboy may be lifted from the floor and pivotally supported in an elevated position, whereby said carboy may be easily tilted to empty all or a portion of the contents therefrom.

A further object of my invention is to produce a carboy-supporting device of the class briefly described above which is adjustably arranged so that said supporting device may be used in connection with carboys of various dimensions.

With the foregoing and other objects in view, the invention comprises the novel construction, combination and arrangement of parts hereinafter more specifically described and illustrated in the accompanying drawings wherein is shown the preferred embodiment of the invention. However, it is to be understood that the invention comprehends changes, variations and modifications which come within the scope of the claims hereunto appended.

Fig. I is a perspective view of my improved carboy-supporting device.

Fig. II is a perspective view showing my improved carboy-supporting device in use with a carboy supported thereby.

Fig. III is a side elevation of my carboy-supporting device showing same as it will appear when a carboy is supported thereby, a carboy and the lifting mechanism of my device being shown by dotted lines as they will appear before said carboy has been engaged by said lifting mechanism.

Fig. IV is an enlarged section on line IV—IV of Fig. III.

In the drawing, A designates a comparatively large bottle or carboy which is of the usual type commonly used to contain acids or other liquids. The carboy A is located within a case B, which is also of the ordinary type, said cases usually being made of wood and being intended to prevent the accidental breaking of the carboys. Each of the cases B is provided with a pair of oppositely disposed apertures C formed through walls of said case, the utility of which will be subsequently set forth.

My improved supporting device comprises a base portion 1 which when assembled is comparatively U-shaped in plan and comprises a pair of L-shaped members 2. Each L-shaped member 2 may be either formed of a single piece of material or each of said members may be made up of a plurality of sections secured together. The rear legs of the associated L-shaped members 2 are located adjacent to each other and each of said rear legs is provided with a pair of slots 3, the slots 3 in the rear leg of one of the L-shaped members 2 being in registration with the slots in the rear leg of the other L-shaped member. Extending through each pair of registering slots is a bolt 4 provided with a wing nut 5 at its outer end. From the foregoing it is plain that if the wing nut 5 were unscrewed, the side legs of the L-shaped members 2 might be adjusted toward or away from each other, and it is also apparent that after said L-shaped members had been properly adjusted said members would be held in the desired positions by tightening the wing nuts 5.

Extending upwardly from the side leg of each of the L-shaped members 2 is a support 6 comprising an upright member 7 secured to the L-shaped member 2 and extending upwardly therefrom, and a pair of braces 8, each of said braces being secured to the associated L-shaped member 2 and to the associated upright member 7 in a manner to give said upright member additional rigidity.

Pivotally secured to the upright members 7 at the upper ends thereof is a lifting lever 9, said lifting lever being, like the base 1, approximately U-shaped in plan. Located at the end of each side portion of the U-shaped

lifting lever 9, and extending inwardly therefrom, is a pin 10.

My improved carboy-supporting device is mounted on small wheels or casters 11 whereby said device may be easily moved from place to place, said casters being secured in any convenient manner to the L-shaped members of the base portion 1.

To prevent the ends of the U-shaped base portion from spreading under the weight of a supported carboy I employ a chain or similar connecting device 12, one end of said chain being secured to an end of one of the L-shaped members 2 of said base portion 1 and the other end of said chain being adapted to be attached to a hook 13 at the end of the other L-shaped member of said base portion.

The operation of my device is as follows: Assume that a carboy is resting upon the floor as indicated by broken lines in Fig. III, and it is desired to lift said carboy from the floor for the purpose of transporting same from place to place or to tilt said carboy to empty a portion of the contents therefrom. The chain 12 of the supporting device is detached from the hook 13, and said supporting device is moved to a position where the carboy is located partially within the U-shaped base portion 1. Before the supporting device may be moved to its operating position where the carboy is between the end portion of the U-shaped lifting lever 9, said end portions must be spread apart, as otherwise the inwardly extending pins 10 would strike the carboy case, and for this reason I have constructed said U-shaped lever of material having sufficient resiliency to permit the spreading mentioned and which will insure the return of said end portions to their original positions after the outward pressure is removed. It is plain, therefore, that the spreading of the end portions of the U-shaped lever 9 will permit the supporting device to be moved to a position where the carboy case B is located between the end portions of the U-shaped lever 9, and it is then only necessary to move the supporting device in a direction toward the carboy case until the pins 10 enter the aperture C in said carboy case B. After the carboy case and the supporting device have been brought into such relative positions that the pins 10 are extended into the apertures C, it is then only necessary to depress the outer end of the pivoted U-shaped lever 9 to raise said carboy case from the floor.

To retain the outer end of the U-shaped lever 9 in a lowered position, I employ a spring catch 14 which is secured to the rear leg of one of the L-shaped members 2, said spring catch 14 being so shaped that it will snap over the end of said U-shaped lever when said U-shaped lever reaches the proper position and hold said lever immovable until said spring catch is released.

It is apparent that when the carboy case is in the position illustrated in Fig. III, said supporting device may be moved freely from place to place, and as said carboy case is pivotally supported by the pins 10 said carboy case may be easily tilted to empty all or a portion of the contents therefrom.

It is, of course, apparent that the slots 3 in the rear legs of the L-shaped members 2 and the bolts 4 which pass therethrough permit the device to be used with various sized carboy cases, the U-shaped lever 9 having sufficient resiliency to expand or contract a like amount.

If desired the U-shaped lever 9 may also be formed of a plurality of parts adjustable relative to each other.

I claim:

1. A device for supporting a carboy contained within a case, comprising a U-shaped base including a pair of members capable of sliding movement relative to each other whereby the width of said base may be increased or decreased, a flexible connecting member attached to the ends of said U-shaped base, and a member pivotally supported by said base, said member being adapted to pivotally engage said carboy case whereby said carboy case may be moved to an elevated position.

2. A device for supporting a carboy contained within a case, comprising a U-shaped base including a pair of members capable of sliding movement relative to each other whereby the width of said base may be increased or decreased, a U-shaped member pivotally supported by said U-shaped base, said U-shaped member being provided with pivots adapted to extend into apertures in walls of said carboy case whereby said carboy case may be pivotally supported in an elevated position by said pivoted member, and a spring catch secured to said U-shaped base adapted to engage said U-shaped pivoted member whereby said carboy case is retained in said elevated position.

In testimony that I claim the foregoing I hereunto affix my signature.

WALTER G. SEABOLD.