

No. 693,020.

Patented Feb. 11, 1902.

E. G. HOWE.

SWINGING CRATE FOR BOTTLES OR CARBOYS.

(Application filed Aug. 16, 1900.)

(No Model.)

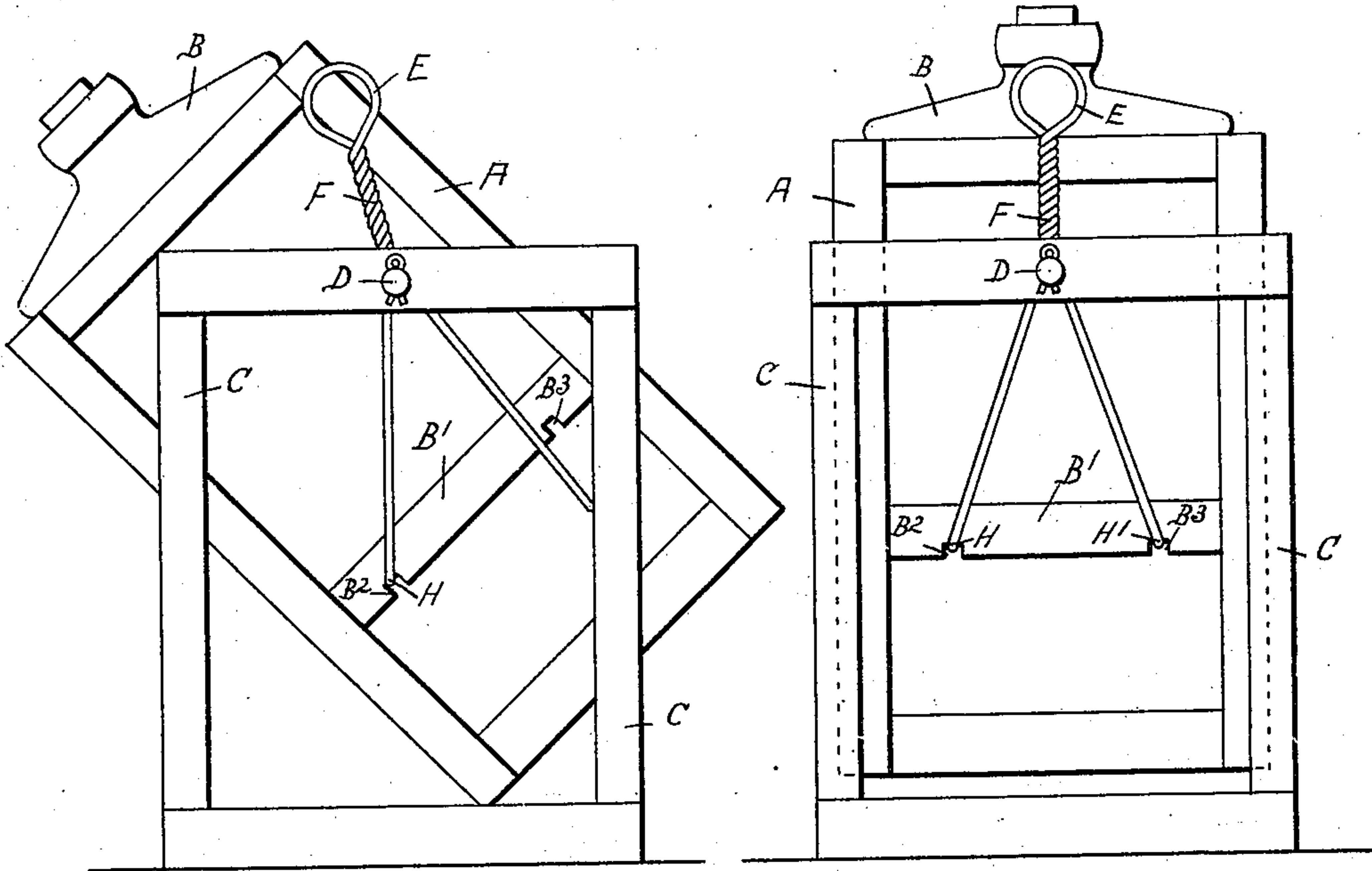


Fig. 2.

Fig. 1.

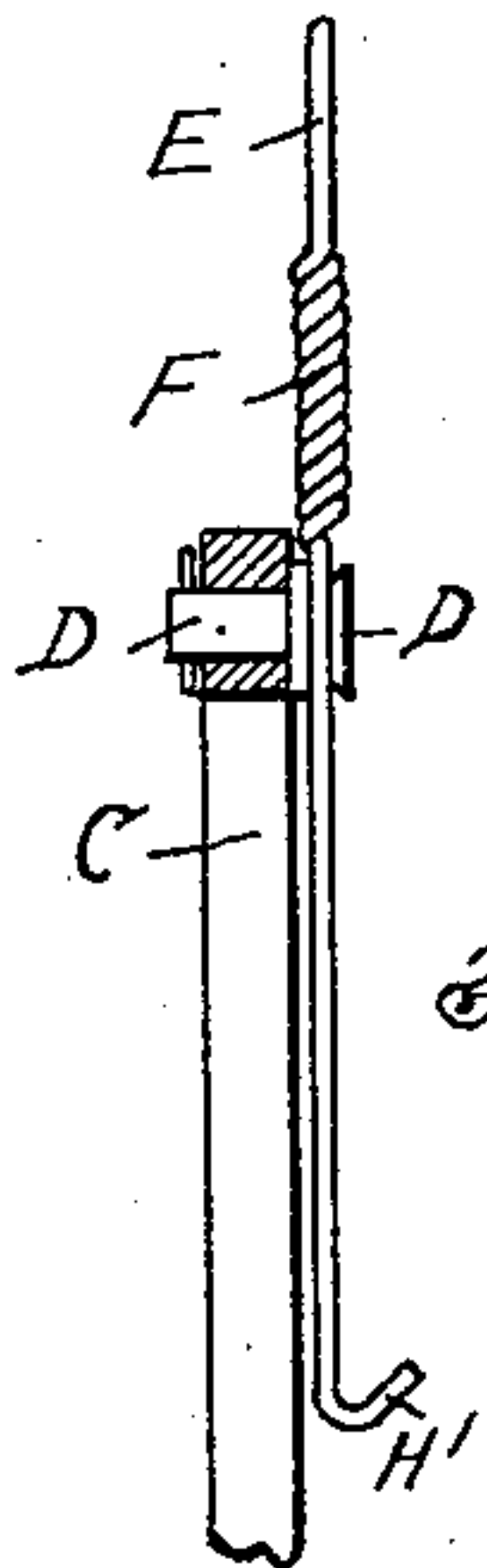


Fig. 4.

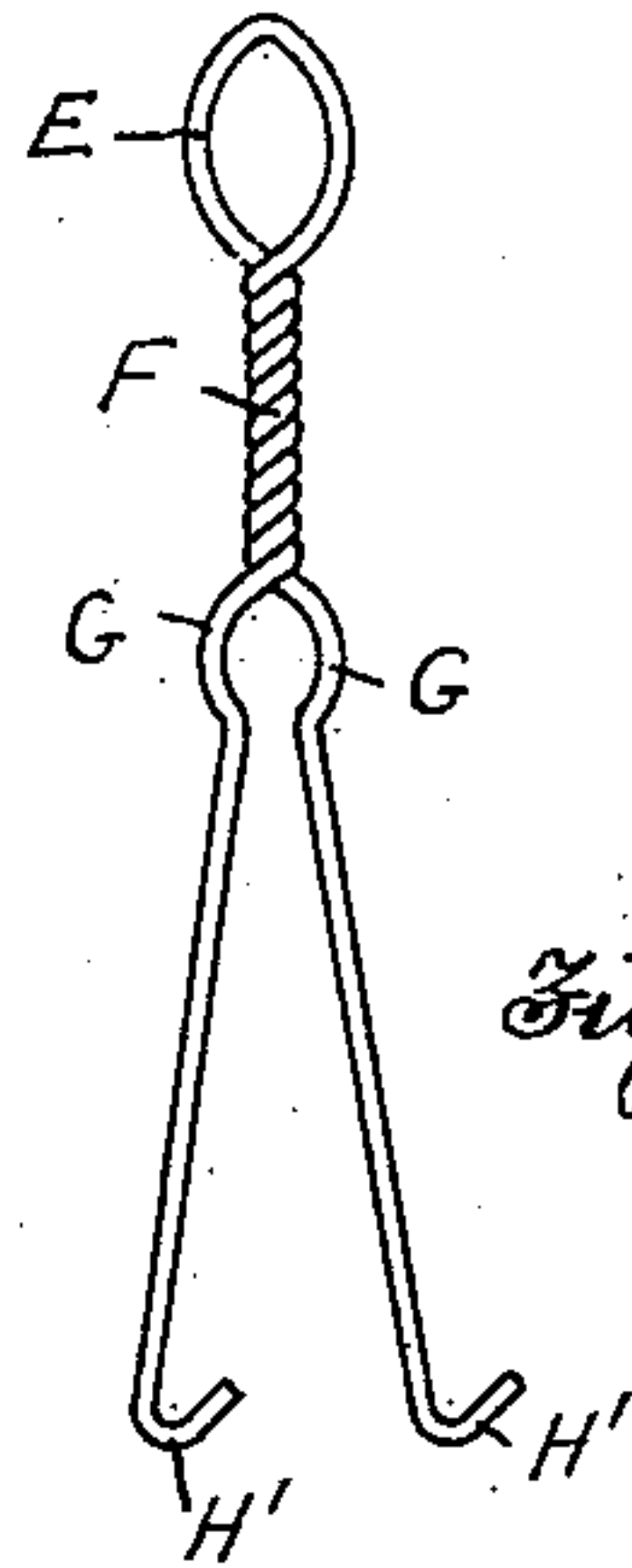


Fig. 3.

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# UNITED STATES PATENT OFFICE.

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## SWINGING CRATE FOR BOTTLES OR CARBOYS.

SPECIFICATION forming part of Letters Patent No. 693,020, dated February 11, 1902.

Application filed August 18, 1900. Serial No. 27,022. (No model.)

*To all whom it may concern:*

Be it known that I, ELBRIDGE G. HOWE, a citizen of the United States, residing at Millbury, in the county of Worcester and Commonwealth of Massachusetts, have invented a new and useful Improvement in Swinging Crates for Bottles or Carboys, of which the following is a specification, accompanied by drawings forming a part of the same, and in which—

Figure 1 represents a side view of a swinging crate embodying my invention. Fig. 2 is a side view of the same, showing the crate tipped or swung in an inclined position. Fig. 3 represents a detached view of one of the suspension-hooks by which the crate is supported, and Fig. 4 is a sectional view of a portion of the crate-body with one of the suspension-hooks pivotally connected therewith.

Similar reference-letters refer to similar parts in the different views.

The object of my invention is to provide a swinging crate for holding water-bottles or carboys which will permit the same to be swung into an inclined position in order to draw the liquid therefrom; and my invention consists in the construction and arrangement of parts, as hereinafter described, and set forth in the annexed claims.

Referring to the accompanying drawings, A denotes a crate containing a water-bottle or carboy, and B and C an outer framework or case having vertical sides, but open at the front and rear. In the accompanying drawings, Figs. 1 and 2 are side elevations which show suspension-hooks by which the crate is supported upon one side, the opposite side being provided with suspension-hooks which are a duplicate of those shown. The outer framework or case C is provided on each side with a pin forming the gudgeon or axis about which the crate A rotates, one of said pins being shown at D in the drawings.

The suspension-hooks by which the crate is supported within the case C and upon the gudgeons D are the same upon both sides of the crate and are shown in detached view in Fig. 3. They are preferably made by bending a wire upon itself at its central section and forming a ring E. The wire is then twisted for a few inches, as at F, and is bent

at G G in semicircular curves adapted to inclose the gudgeons D. The wires are then carried in a straight line and slightly diverging, with their ends bent to form hooks H H'. The crate is provided with a central bar B', which has notches B<sup>2</sup> B<sup>3</sup> to receive the hooks H H', by which the crate is suspended upon the gudgeons D, with the bottom of the crate slightly above the bottom of the case C, so that it is free to swing in either direction. By tipping the crate A it is caused to swing upon the gudgeons D D until one of its supporting-hooks approaches a vertical plane passing through the axes of the gudgeons D D, when the crate then swings on said supporting-hook and becomes lifted from the other hook. In Fig. 2 the crate is shown as having been tipped about an axis passing through the center of the gudgeons D until the hook H has been brought into a vertical plane passing through the center of the gudgeons. As the crate A continues to be tipped its axis of rotation is transferred from the gudgeon D to the supporting-hook H and the crate rocks upon the supporting-hook H, causing the notch B<sup>3</sup> to be lifted away from the supporting-hook H', as represented in Fig. 2. The axis about which the crate is rocked is therefore carried farther down toward the bottom of the bottle and nearer the center of gravity, when the bottle is partly emptied. The bent sections G G of the suspension-hooks partly inclose the gudgeons D D and are open upon the under side, allowing the crate A to be lifted out of the case C by means of the handles E.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of a supporting-case, or frame, C, a crate A adapted to be suspended in said case, gudgeons D, D, held by said case and suspension-hooks hung upon said gudgeons and engaging said crate upon opposite sides, the hooks on each side comprising a pair of independent hooks engaging the crate upon opposite sides of a vertical plane passing through the center of said gudgeons, substantially as described.

2. The combination with a case C, and a crate A suspended therein, of gudgeons D held by said case, hooks H, H', engaging said



crate upon opposite sides and suspended upon said gudgeons, and handles E extending above said gudgeons, substantially as described.

3. The combination with a case C, having  
5 gudgeons D, and a crate A, of the suspension devices comprising handles E, curved sections G, G, adapted to spring over said gud-

geons, D, D, and hooks H, H', substantially as described.

Dated this 14th day of August, 1900.

ELBRIDGE G. HOWE.

Witnesses:

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