April 6, 1926. **1,580,098**

B. A. BERGER

TILTING FRAME

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Fig. 1.

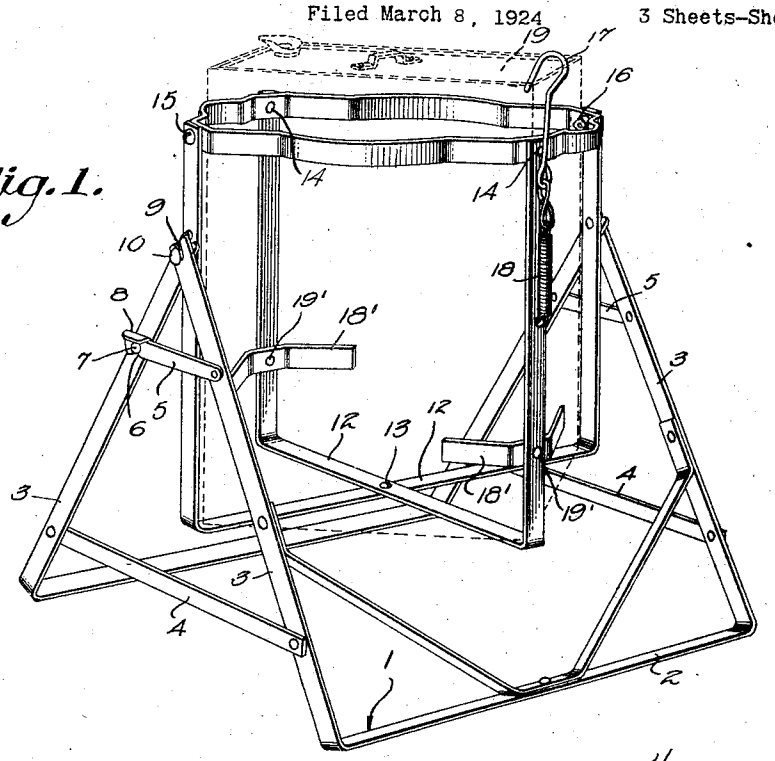
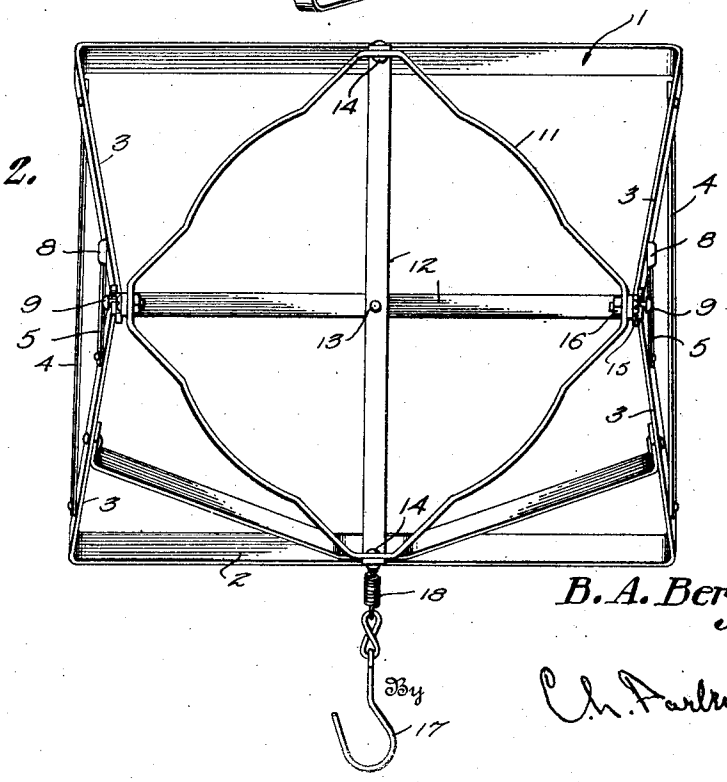


Fig. 2.



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TILTING FRAME

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Fig. 3.

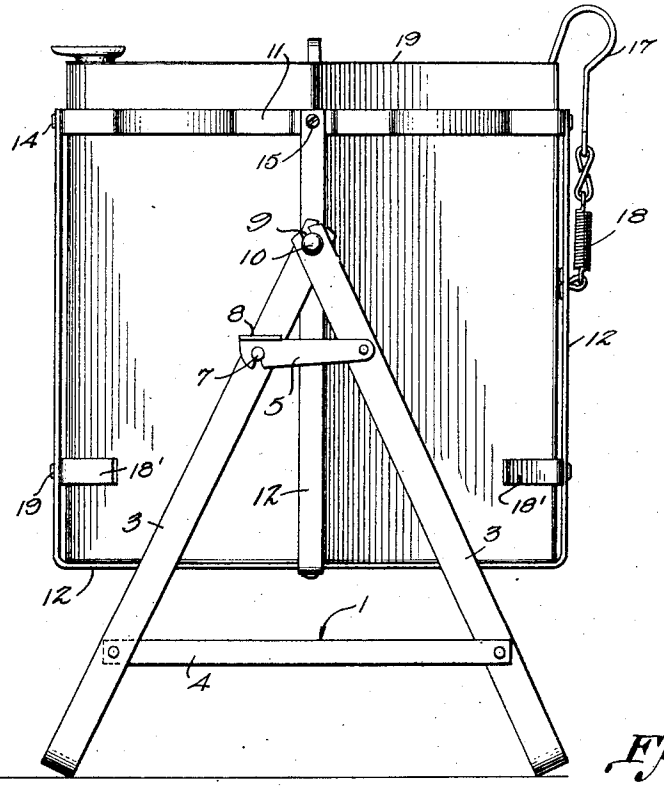


Fig. 5.

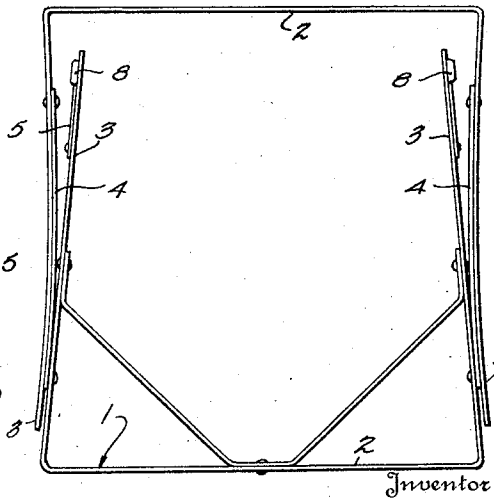
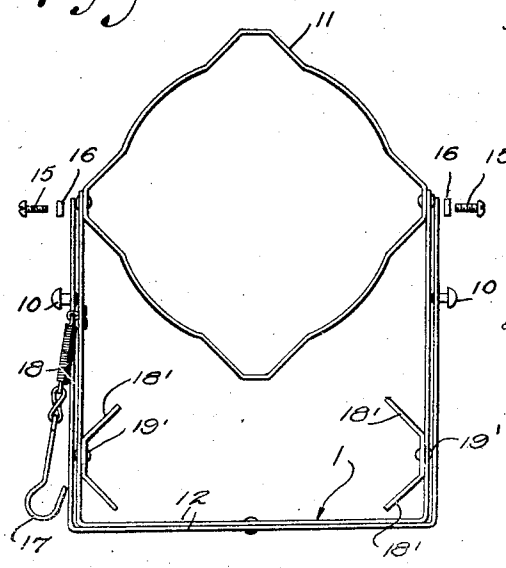


Fig. 4.



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April 6, 1926. 1,580,098

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TILTING FRAME

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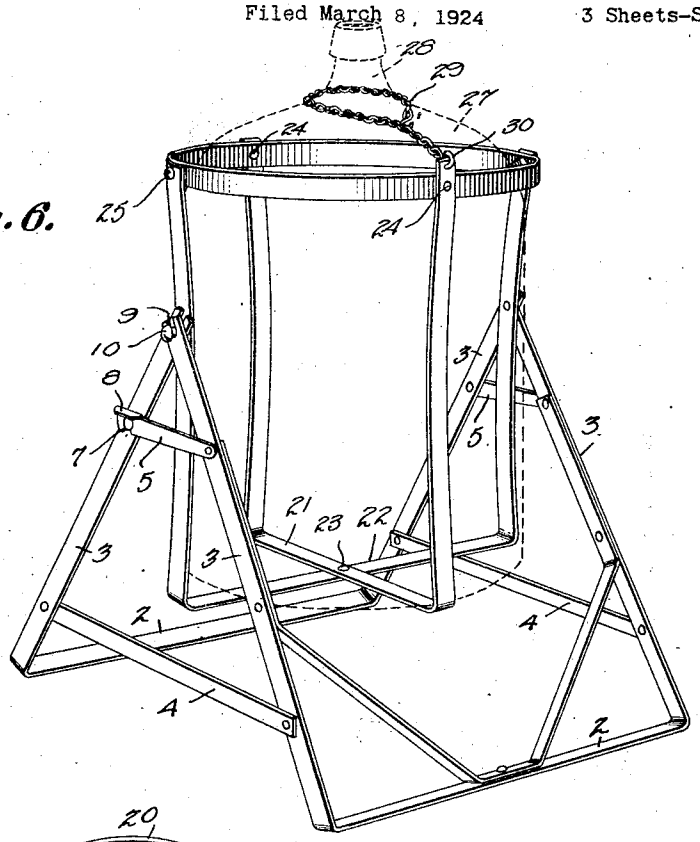
Fig. 6.



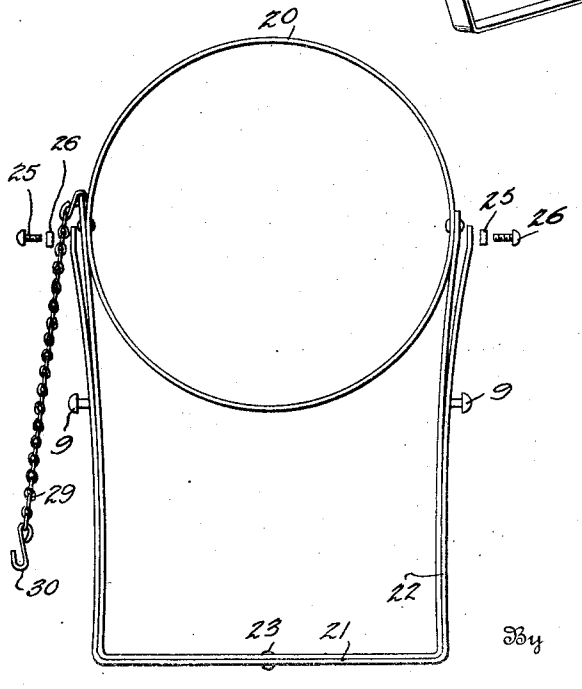


Fig. 7.

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Patented Apr. 6, 1926. 1,580,098

UNITED STATES PATENT OFFICE.

BRUNO A. BERGER, OF RICHMOND, VIRGINIA, ASSIGNOR TO BERGER SPECIALTY MANUFACTURING COMPANY, INC., OF RICHMOND, VIRGINIA, A CORPORATION OF VIRGINIA.

TILTING FRAME.

Application filed March 8, 1924. Serial No. 697,880.

To all whom it may concern:

Be it known that I, BRUNO A. BERGER, a citizen of the United States, residing in the city of Richmond and State of Virginia, have invented certain new and useful Improvements in Tilting Frames, of which the following is a specification.

This invention relates to tilting frames or supports for bottles, and similar containers, and is an improvement over the construction described and claimed in my prior Patent No. 1,188,610, granted June 27, 1916.

An object of the present invention is the provision of an improved locking means for the supporting frame.

A further object is the provision of a collapsible cage adapted to be pivotally supported on the frame and to receive a bottle or similar container.

In the accompanying drawings, I have shown several embodiments of the invention. In this showing:

Figure 1 is a perspective view of one form of the invention,

Figure 2 is a plan view,

Figure 3 is a side elevation,

Figure 4 is a plan view of the cage in folded position,

Figure 5 is a similar view of the supporting frame folded,

Figure 6 is a perspective view showing a cage to be used with round bottles,

Figure 7 is a plan view of the cage shown in Figure 6.

Referring to the drawings, the reference numeral 1 designates generally one of the members of the supporting frame. As shown, the supporting frame is formed of two members, each of which is substantially U-shaped and comprises a base 2 and arms 3. The adjacent arms of each section of the frame are arranged at an angle to each other when in assembled position, forming a triangular support. These arms are connected by links 4, pivotally connected to the arms. A latch 5 is secured to one of the arms adjacent its upper end and the latch is provided with a recess 6, adapted to receive a pin 7 carried by the other arm to lock the arms in position. This latch may be provided with a flattened portion 8, forming a hand grip. The ends of the arms are provided with slots 9 for the reception of a pin 10.

In the form of the invention shown in Figures 1 to 5 of the drawings, the cage is substantially rectangular in cross section, and is adapted to receive a rectangular container. As shown, the cage consists of an upper member 11 having a pair of depending supporting members 12 secured thereto, and arranged at right angles to each other. The supporting members are substantially U-shaped and are connected to each other by a bolt or rivet 13. The arms of one of the supporting members are secured to the member 11 by rivets 14 and the arms of the other member are secured to the member 11 by removable nuts 15 and bolts 16. A hook 17 is connected to a coil spring 18 carried by one of the supporting members 12 and this hook is adapted to engage the top of a can 19. As shown, the pins 10 which are received in the notches 9, are carried by the arms of one of the members 12, whereby the cage is permitted to swing about these pins as an axis to discharge the contents of the can 19. Substantially V-shaped members 18′ are secured to the arms of one of the supporting members 12, by pins or rivets 19′. These V-shaped members engage the corners of a square can to retain it in position, and also permit the use of a rectangular cage for supporting round bottles.

In the form of the invention shown in Figures 6 and 7 of the drawings, the member 11 is replaced by a ring 20 and a pair of supporting members 21 and 22 are secured to this ring. These supporting members are secured to each other by a rivet 23. The supporting member 21 is secured to the ring 20 by means of rivets 24 and the supporting member 22 is secured thereto by bolts 25 and nuts 26.

The operation of the device will be readily apparent. The supporting frame may be collapsed when the cage is removed by releasing the latches 5. The upper ends of the arms 3 are then swung downwardly toward the base portion 2 of the opposite frame member, as indicated in Figure 5 of the drawings. The links 4 assume the position shown in Figure 5 of the drawings, connecting the members to each other with the bases arranged at the opposite ends of the collapsed frame. To collapse the cage shown in Figures 1 to 5 of the drawings, the bolts 15 and nuts 16 are removed and the supporting member 12 is then swung

through an angle of 90° to a position in alinement with the other supporting member. The V-shaped members 18′ are also swung through an angle of 90° to a position parallel to the depending arms of the supporting member. The upper member 11 is then swung to the position shown in Figure 4 of the drawings in the plane with the supporting members. The cage shown in Figures 6 and 7 of the drawings is collapsed in the same manner by removing the bolts 25 and nuts 26. In this form of the invention, a bottle 27 is illustrated, having a neck 28 and in place of the hook 17, I employ a chain 29, which is adapted to surround the neck of the bottle, and provided with an extending end connected to the supporting member 21, as indicated at 30.

I claim:

1. A support for liquid containers comprising a skeleton frame, a cage removably supported in said frame, said cage comprising an upper member adapted to surround a container arranged therein, a member depending therefrom and having a portion adapted to be arranged beneath the container, a second depending member removably secured to said upper member having a portion adapted to be arranged beneath the container and connected to the lower portion of said first member whereby said cage may be collapsed and the parts arranged in a single plane, and substantially V-shaped members secured to one of said depending members and adapted to engage the sides of the container.

2. A support for liquid containers comprising a skeleton frame, a cage removably supported in said frame, said cage comprising an upper member adapted to surround a container therein, a member depending therefrom and having a portion adapted to be arranged beneath the container, and a second depending member removably secured to said upper member having a portion adapted to be arranged beneath the container and connected to the lower portion of said first mentioned member whereby said cage may be collapsed and the parts arranged in a single plane.

In testimony whereof I affix my signature.

BRUNO A. BERGER.