

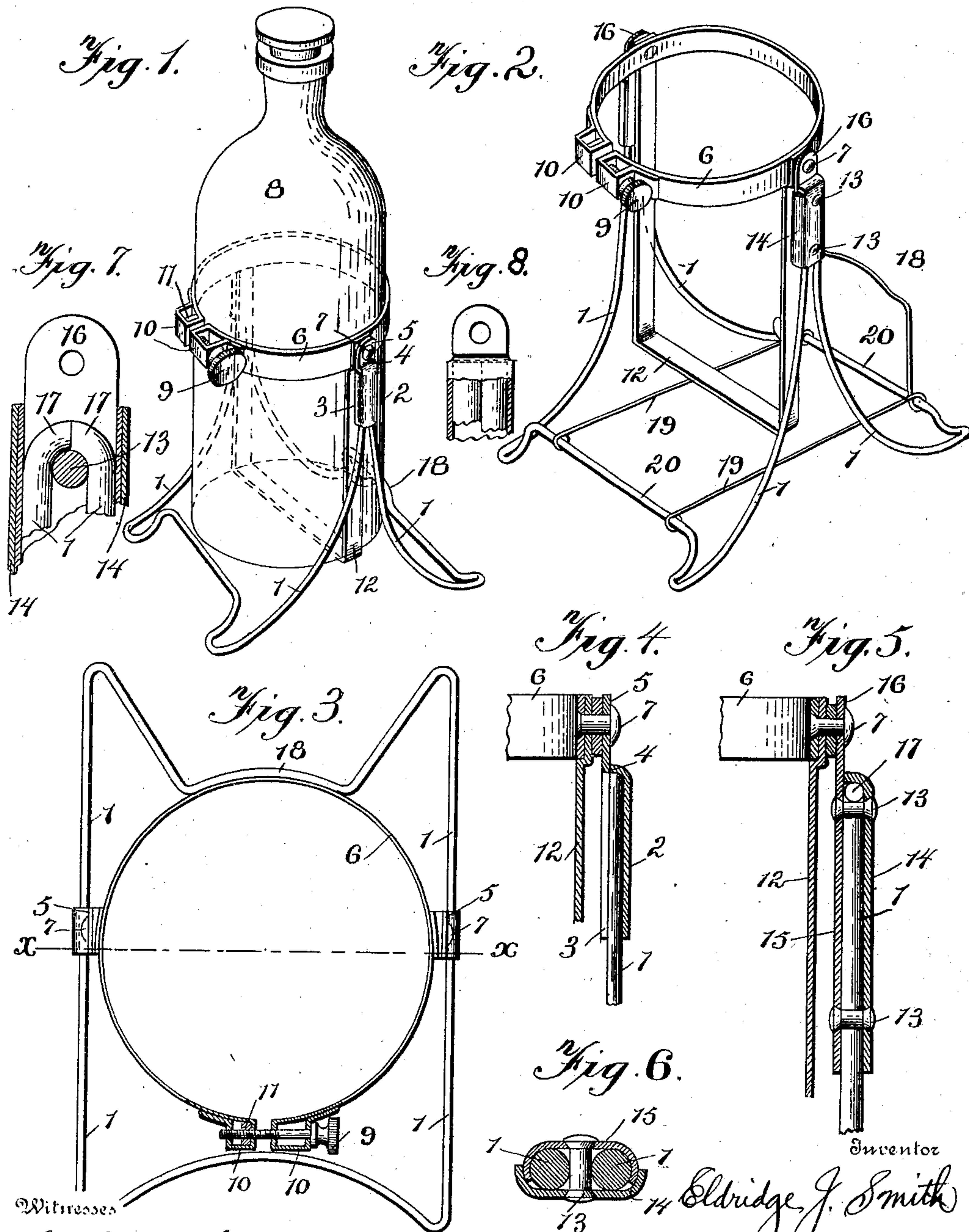
No. 682,576.

Patented Sept. 10, 1901.

E. J. SMITH.
TILTING VESSEL HOLDER.

(Application filed June 16, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

ELDRIDGE J. SMITH, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR
OF ONE-HALF TO T. A. WICKERSHAM, OF SAME PLACE.

TILTING VESSEL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 682,576, dated September 10, 1901.

Application filed June 16, 1900. Serial No. 20,500. (No model.)

To all whom it may concern:

Be it known that I, ELDRIDGE J. SMITH, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Tilting Vessel-Holders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My present invention relates to an improved tilting holder for the purpose of holding large bottles, carboys, casks, barrels, or containing vessels for fluids or else, the invention having for its object to provide a simple and durable device that will be cheap to manufacture and useful, easy, and effective in its operation.

Another purpose in my invention is to enable the employment of light material in its construction that while being elastic and light is very strong.

I do not limit myself to the design given, but propose to change the design of the device consistently within the essential parts and combinations claimed for the purposes above set forth.

Knowing the state of the art, I do not claim the tilting frame broadly, but am not aware of the existence of invented or patented forms of tilting frames embodying the novel characteristics hereinafter described.

In order to enable those skilled in the art to understand, make, and use my invention, I will proceed to describe the same in detail, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of the tilting frame with a bottle adjusted in position. Fig. 2 is a perspective view of tilting frame for holding bottles, carboys, or casks. Fig. 3 is a top view with dotted lines showing center of gravity of Fig. 1. Fig. 4 is a longitudinal sectional view of metallic cap made of two pieces used in the construction of frame shown in Fig. 2. Fig. 5 is a detail view showing construction at connection of standards to the

tilting part of the frame. Fig. 6 is a transverse sectional view of Fig. 5. Fig. 7 is a longitudinal sectional side view of Fig. 5, and Fig. 8 is a longitudinal sectional side view of Fig. 4.

Referring now to the drawings, I will first describe the construction of the base and standards of the tilting frame, which is formed of two pieces of wire 1, as shown in Figs. 1, 2, and 3. I do not limit myself to two pieces of wire, as one piece or more may be utilized in construction of same. Metallic caps 2 fit over and secure the ends of the wire standards either by soldering, as shown in Fig. 1, or riveting, as in Fig. 2, and bending the ends of wire standards at 17, so as to come in contact with rivet 13. (Shown in Fig. 7.) These caps are made, preferably, in one piece, the wings or flaps 3 being bent inwardly, so as to completely envelop the sides and ends of the standards 1, as shown in Figs. 4 and 7. The upper end of the metallic cap is bent at right angles at 4, so as to be flush with the under side of the cap, and then again bent upward at right angles, as shown at 5, forming a trunion, to which the metallic band 6 is pivoted by stable connection at 7. This metallic band 6 secures the bottle 8 by means of a thumb-screw 9, which passes through the walls 10, formed by bending the ends of the metallic band 6 at right angles to form a square, the ends being riveted on the back cap or otherwise secured. The band being made of thin material, so as to fit snugly around the bottle or vessel, the ends can by this method be closely and firmly clamped together by means of the thumb-screw operating in the nut 11 and secured between the walls and within the square formed by the bent end of the metallic band, the clamping-screw passing entirely through the four walls rendering the device strong enough for the purpose without additional reinforcement, as would be otherwise required. Additional support is rendered the bottle 8 by means of the metallic strap 12, bent at right angles at its down side and its upper ends secured to the metallic band 6.

The metallic caps in Fig. 2 are formed of two pieces 14 and 15 and riveted or bolted together at 13. The outer plate 14 laps over

the edge of the under plate 15, as is clearly shown in Fig. 6, so as to more firmly clasp the ends of the wire standards 1 between them. The upper end of this plate forms a trunnion-
5 ear 16, to which the metallic band is riveted, but with looseners enough to allow rotation in the joint when the frame is tilted. In order to more firmly secure the standards in place, their upper ends are slightly bent inwardly at 17, as shown in Fig. 7.

The vessel 8, secured to the tilting frame, is prevented from inclining from the perpendicular by reason that its lower ends careen in contact with the upward-projecting wire,
15 (shown at 18 in Figs. 1, 2, and 3.)

In Fig. 2 the base of the frame is reinforced by wire rods 19, secured to the rounds of stretchers 20 and bent upward, as shown at 18, for the purpose above specified.

Having thus described my invention, what I claim is—

A tilting vessel-holder consisting of a base part, a tilting part constituting a vessel-holder consisting of a flexible band adapted to pass around the vessel, the ends of the band being
25 bent out and then lapped back upon themselves, leaving recesses formed at the ends, a tightening adjustment consisting of an internally-threaded nut located in one recess and a thumb-screw passing horizontally through
30 the back-lapped ends and recesses of both ends and engaging the nut.

In testimony whereof I affix my signature in presence of two witnesses.

ELDRIDGE J. SMITH.

Witnesses:

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