

(No Model.)

W. H. FALES.
TILTING SUPPORT FOR CARBOYS.

No. 459,945.

Patented Sept. 22, 1891.

Fig. 1.

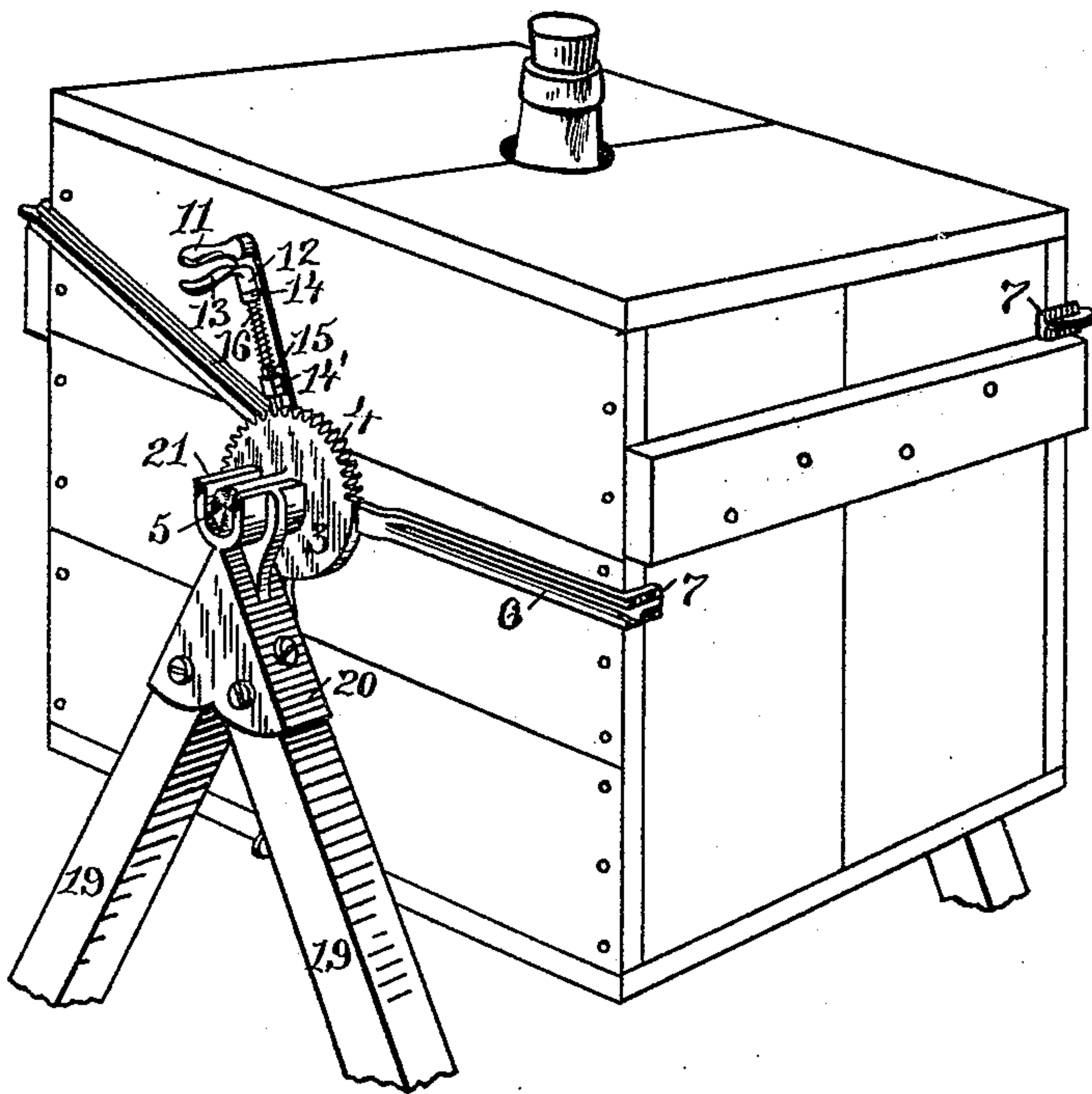
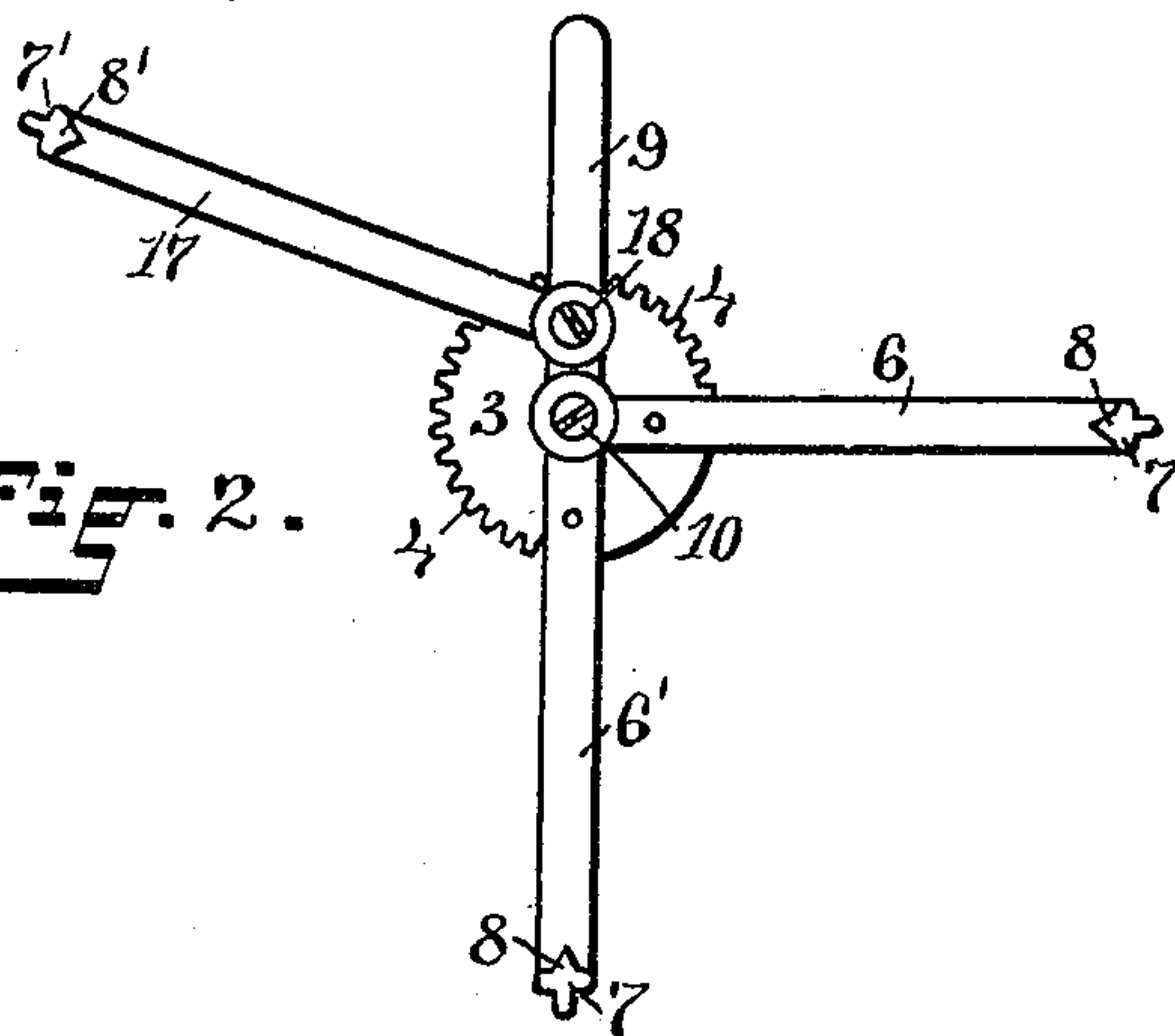


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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TILTING SUPPORT FOR CARBOYS.

SPECIFICATION forming part of Letters Patent No. 459,945, dated September 22, 1891.

Application filed January 12, 1891. Serial No. 377,483. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. FALES, of the city of Providence, county of Providence, and State of Rhode Island, have invented certain new and useful Improvements in Tilting Supports; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in mechanism for supporting carboys or other vessels containing liquids.

The object of this invention is to provide suitable mechanism for supporting carboys or other vessels, which can be readily adjusted to the vessel to allow of the convenient handling of the same.

To attain this end my invention consists in the peculiar and novel feature of providing a clamping device formed of a plurality of arms extending radially from a central hub, one or more of which arms can be operated by a lever to clamp the ends of the vessels within the grasp of spurs provided on the ends of the arms, as will be more fully described hereinafter, and pointed out in the claims.

Figure 1 is a view of a carboy supported by the improved tilting device, the shaft of the clamping-frame being journaled in a bearing secured to a horse, a portion of which is shown. Fig. 2 is a reverse view of the clamping device, showing the construction of the same.

Similar numbers of reference indicate corresponding parts throughout.

In the drawings, 3 indicates a central hub having the ratchet 4 formed around a portion of its circumference and provided with the shaft or axle 5. The arms 6 and 6' are formed in part with or are secured to the hub 3 and extend therefrom at right angles with each other. They are provided with strengthening-ribs, and their outer ends are bent to form the steps 7 7', which are furnished with the spurs 8 8'. One end of the lever-arm 9 is pivoted at the axial center of the hub 3 by the pivot 10, and has a handle 11 secured to its outer end. The latch-rod 12, provided with the handle 13, moves in the slides 14 and 14', secured to the outer sur-

face of the lever-arm 9, the perforation in the slide 14' being oblong to receive the flattened end 15 of the latch-rod. The coiled spring 16 encircles the latch-rod 12, and the upper end bears against the slide 14, while the lower end, bearing against the shoulder formed by the flattened portion 15 of the latch-rod, tends to force the latch-rod downward and brings the flattened end in engagement with the ratchet with which the circumference of the hub 3 is provided. The movable arm 17 is pivoted to the lever-arm 9 by the pivot 18, the end of this lever-arm having a step 7', which is furnished with a spur 8'.

The horse or frame in which the clamping device is supported may be of any well-known form, but is preferably constructed as shown in the drawings, the supports 19 19 being secured at an angle by the castings 20, provided with a bearing 21 to receive the axles 5 of the hub 3.

The operation of the improved device is as follows: A clamping device being provided for each end of the carboy-case, the handle 13 is drawn toward the handle 11, disengaging the flattened end of the latch-rod from the ratchet 4. The lever-arm 9 is now moved around until it comes in a line with the arm 6. The clamping device is now placed against one end of the carboy-case or other vessel, the steps 7 7' engaging two edges of the same. The latch-rod 9 is now operated as above and drawn forward, the leverage drawing the step 7' and spur 8' against the rear edge of the carboy-case, the movement gradually forcing the spurs 8 and 8' to clamp the edges of the vessel. The handle 13 is now released and the spring 16 forces the flattened end 15 of the latch-rod 9 into engagement with the ratchet 4 on the hub 3. A similar clamping device is now secured in a like manner to the other end of the vessel, which is then lifted up and the shafts or axles 5 placed in the bearings 21.

By the use of the above-described tilting clamping device vessels can be emptied of their contents without the usual waste and without the danger which at present arises from the handling of corrosive liquids. When it is necessary to draw out a portion of the liquid contained in a carboy, the handle 11 may be used to tilt the carboy to the proper

position. This can be done with one hand while a pitcher or other small vessel can be held under the neck or spout of the carboy to receive the liquid.

5 Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a carboy-tilting support, the combination, with a central hub having a shaft or
10 axle and radially-extending fixed arms, of an adjustable arm operated by a lever and eccentric to the pivot of the fixed arms, as described.

2. In a carboy-supporting device, the combination, with the horse 19 19, having the
15 castings 20, provided with the bearings 21, of the hub 3, having the arms 6 and 6', provided

with the spurs 8 8, rigidly secured thereto, and the arm 17, having the spur 8' adjustably secured eccentric thereto, as described. 20

3. In a carboy-clamping device, the combination, with the hub 3, having the shaft 5, ratchet 4, and radially-extending arms 6 and 6', provided with the steps 7 7 and spurs 8 8,
25 of the lever-arm 9, pivotally secured to the hub 3, provided with the spring-operated latch-rod 12, and having the adjustable arm 17 pivotally secured thereto and provided with a step 7, as described.

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Witnesses:

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