

No. 746,164.

PATENTED DEC. 8, 1903.

C. E. RINGROSE.  
BARREL HOLDING AND DUMPING APPARATUS.  
APPLICATION FILED JULY 31, 1903.

NO MODEL.

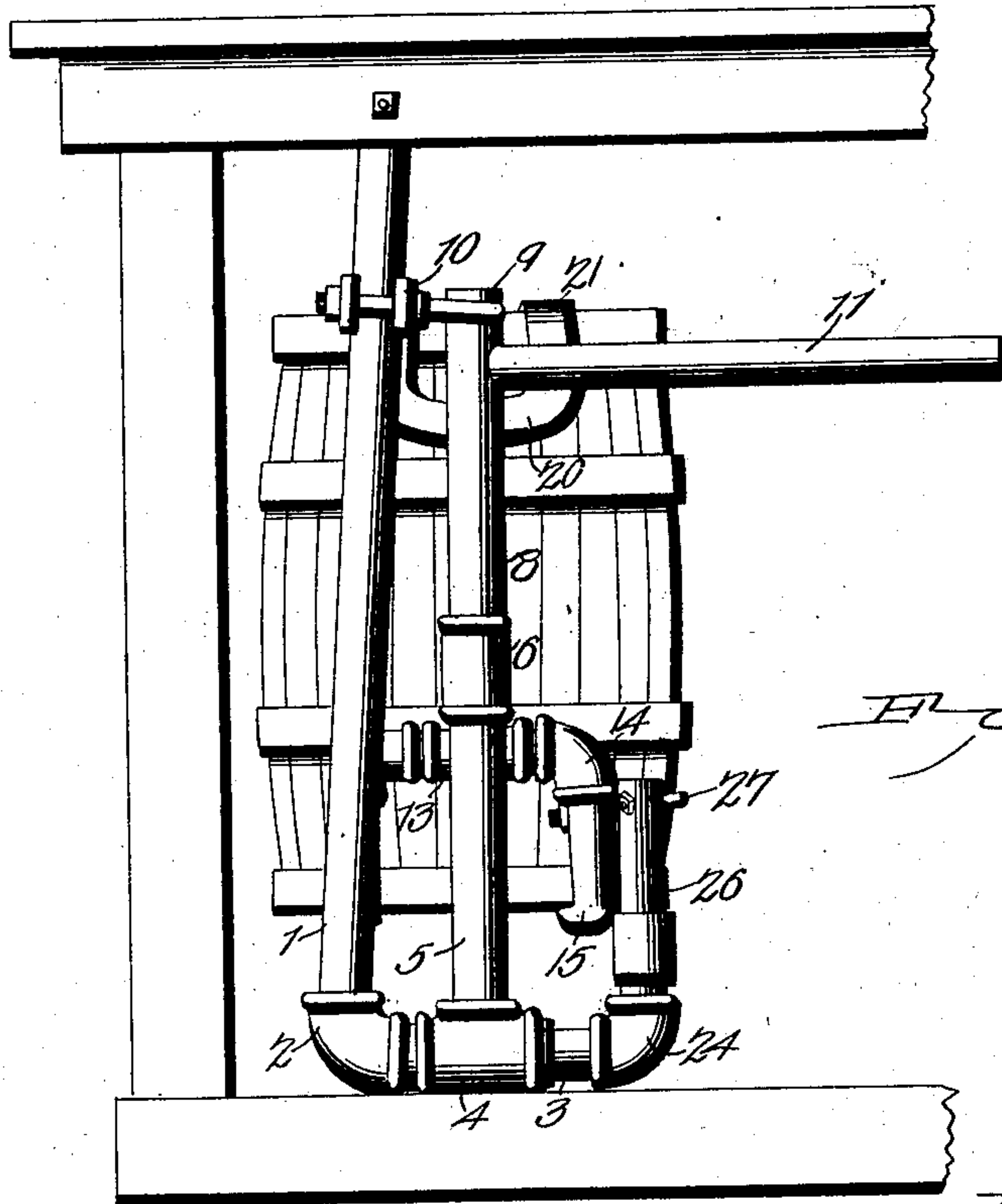


Fig. 1.

Fig. 3.

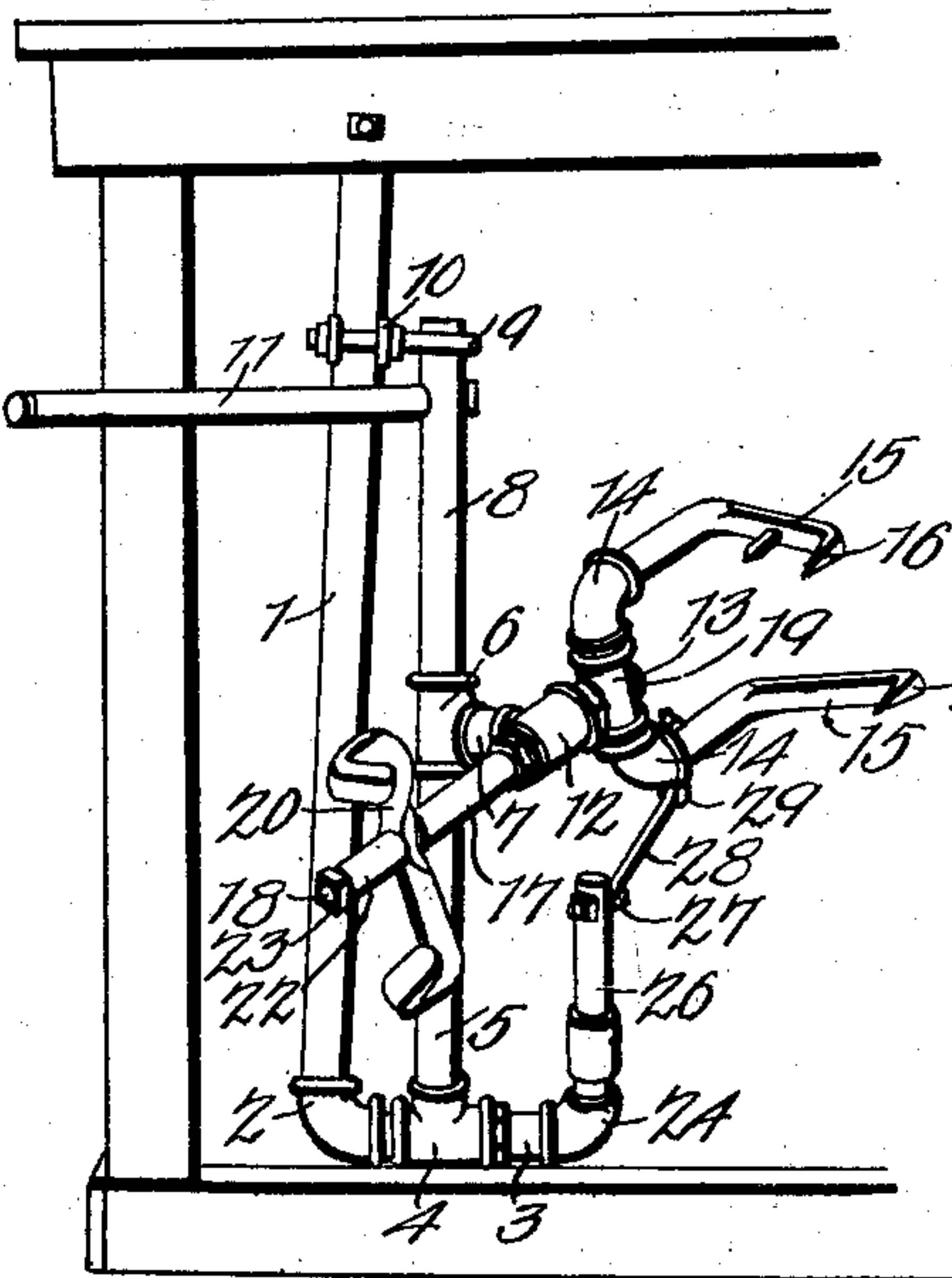
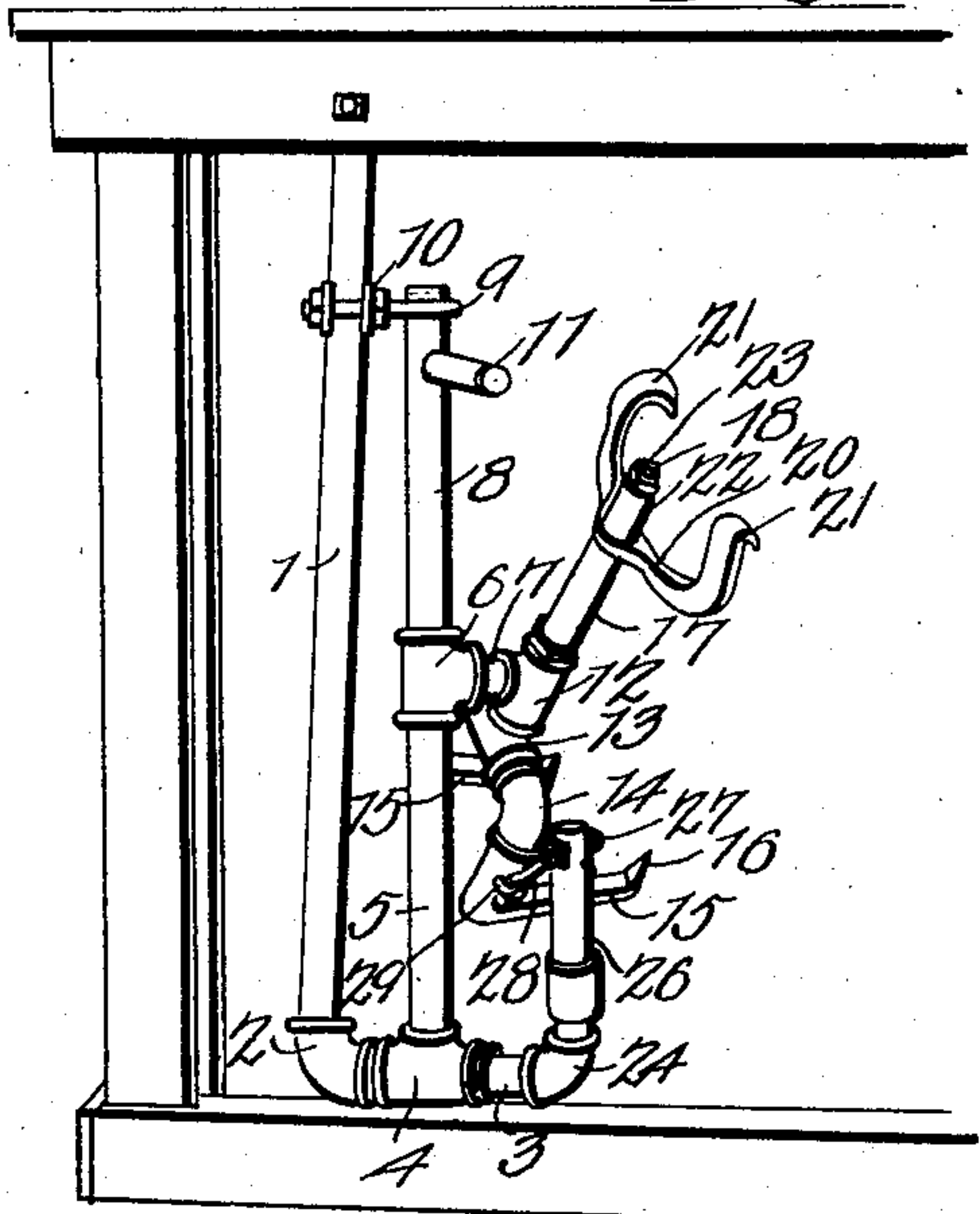


Fig. 2.



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# UNITED STATES PATENT OFFICE.

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## BARREL HOLDING AND DUMPING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 746,164, dated December 8, 1903.

Application filed July 31, 1903. Serial No. 167,789. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES E. RINGROSE, a citizen of the United States, residing at Alma Center, in the county of Jackson and State of Wisconsin, have invented a new and useful Barrel Holding and Dumping Apparatus, of which the following is a specification.

The object of the present invention is to provide a device for holding and dumping barrels, boxes, and similar receptacles, the apparatus being so constructed as to permit of the convenient storage of barrels under a counter or in similar position in a store and the ready removal of a portion or all of their contents.

A further object of the invention is to provide a holding and dumping device in which a barrel or other receptacle may be swung from position and at the same time tilted to any desired angle by a single movement of an operating-lever.

With these and other objects in view the invention consists in the novel construction and arrangement of parts hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportions, size, and minor details of the structure may be made without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings, Figure 1 is a perspective view of the barrel holding and dumping device constructed in accordance with the invention and illustrating a barrel in position thereon. Fig. 2 is a similar view of the same with the parts in the position which they assume immediately after the starting of the operating movement. Fig. 3 is a similar view showing the apparatus swung around to full operating position.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

The device forming the subject of the present invention is designed more especially for use in retail stores and like places where barrels and other receptacles are stored under counters and in convenient position to re-

move their contents, although it may of course be employed in connection with barrels and receptacles used for containing supplies of any kind.

In the drawings, 1 designates an approximately vertical bar formed in the present instance of a section of tubing connected at its lower end by an elbow 2 to a tube-section 3.

The tube-section 3 has a T-joint 4, that carries a vertical tube 5, the upper end of which enters a T-joint 6, that is swiveled on the tube 5 and is provided with an upwardly-extending tube 7, carrying the barrel-clamp. From the top of the T-joint 6 projects a tube 8, the upper end of which is held in an eye 9, carried by a clamp 10, encircling the main tube 1 in order to permit free turning movement of the tube 8, and said tube 8 has a projecting handle 11, by which the device is operated.

To the tube-section 7 is secured a T-joint 12, that is connected by a small nipple to a T-joint 13, and this T-joint 13 is connected to a pair of elbows 14, that carry barrel-engaging clamps 15, spaced apart and each provided with an upturned terminal tube 16 for engagement with the bottom of the barrel or other receptacle. From the opposite end of the T-joint 12 extends a tube 17, through which passes a bolt 18, the headed lower end of which extends out through an opening in the T-joint 13, as indicated at 19 in Fig. 3. The bolt 18 extends through an opening formed in the central portion of a clamp 20, that is provided with terminal fingers 21 for engaging the upper edge of the barrel or other receptacle, and said clamp is held in position by means of a small tube-section 22, extending around the bolt 18, and a clamping-nut 23, adapted to the threaded upper end of said bolt, so that the relative distance between the upper and lower clamps may be altered in accordance with the size of the barrel or other receptacle, and, if necessary, the auxiliary tube-section 22 may be made of different lengths or may be entirely omitted by extending the threads of the bolt for a considerable distance from the upper end thereof.

The lower tube-section 3, which is shown as formed in two parts, is provided with an



elbow 24, that carries a vertically-extending pipe 26, and through this pipe or tube 26 extends an eyebolt 27, that is connected by a small link 28 to an eyebolt 29 on one of the barrel-clamps 15.

In using the device the barrel is placed on the fingers or prongs 16, and the fingers 21 are then adjusted over the upper edge of the barrel and clamped in position by the nut 23.

When in position under the counter, the operating-handle 11 extends parallel with the length of the counter and is not in the way. When it is desired to remove a portion of the contents of the barrel, the lever is grasped and turned to the position shown in Fig. 3. At first the movement will result in swinging of the barrel with the tube 8 as a center; but as the angular movement of the lever increases the barrel will be gradually tilted, owing to the fact that the link 28 will hold the rear or lower end of the clamp under the counter, while the top clamping-fingers 21 are moved outward and downward until the contents of the barrel fall by gravity from its open top. To return the barrel to initial position, the weight of the barrel and its contents will materially assist the movement after the barrel has once been tilted to a position beyond the horizontal, and the weight of the barrel will at all times tend to keep the same in position under the counter.

The device as constructed may be sold as an independent article of manufacture and placed in position under any counter or in such other position as may be desired, and while for the sake of cheapness it may be made of tubing, as described, it is to be understood that the several parts may be formed of any other material without departing from the invention.

Having thus described the invention, what is claimed is—

1. In combination, a vertically-disposed support free for turning movement, an operating-handle carried thereby, clamps forming a part of the support, and means for effecting tilting movement of the clamps during turning movement of the support.

2. A receptacle support and tilting device comprising clamping members, a pivoted arm carrying the same, a vertically-disposed pivotal support for the arm, and means connecting one of the clamps to a fixed point there-

by to tilt the clamps during the turning movement of the pivotal support.

3. In combination, a vertically-disposed support free for turning movement, an operating-handle carried thereby, a swinging arm carried by the support, clamps disposed at opposite ends of the arm, and a link connecting the lower clamp to a fixed point.

4. In combination, a carrying-frame, a vertically-disposed support free for turning movement and carried by the frame, an arm swiveled to said support, receptacle-engaging clamps arranged at both the upper and the lower ends of the arm, and a link having pivotal connection with the frame and with the lower clamp.

5. In combination, a frame formed of tube-sections, a vertical tube carried by the frame and free for turning movement, a lower guide for the tube, an upper guide carried by the frame and embracing said tube, an operating-handle carried by the tube, a clamping-arm swiveled to said tube and formed of a plurality of connected tube-sections, lower clamps having terminal receptacle-engaging teeth or prongs, adjustable upper clamps having fingers for engaging the upper end of the barrel, and a link connecting the lower clamps to a portion of the fixed frame.

6. In combination, a frame formed of a plurality of connected tube-sections, a vertically-disposed tube-section mounted thereon and free for turning movement, a guiding device carried by the frame and embracing such tube, an operating-handle carried by the tube, an arm also formed of tube-sections and swiveled to a vertical tube, prongs or clamps carried by the lower end of said arm, a link connecting said prongs or clamps to a portion of the fixed frame, a threaded bolt extending through said arm, an upper clamp having an opening for the passage of the bolt and provided with receptacle-engaging fingers, and a nut carried by said bolt for adjusting said upper clamp.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES E. RINGROSE.

Witnesses:

H. S. CADBY,  
T. F. WHEATON.