

No. 637,738.

Patented Nov. 21, 1899.

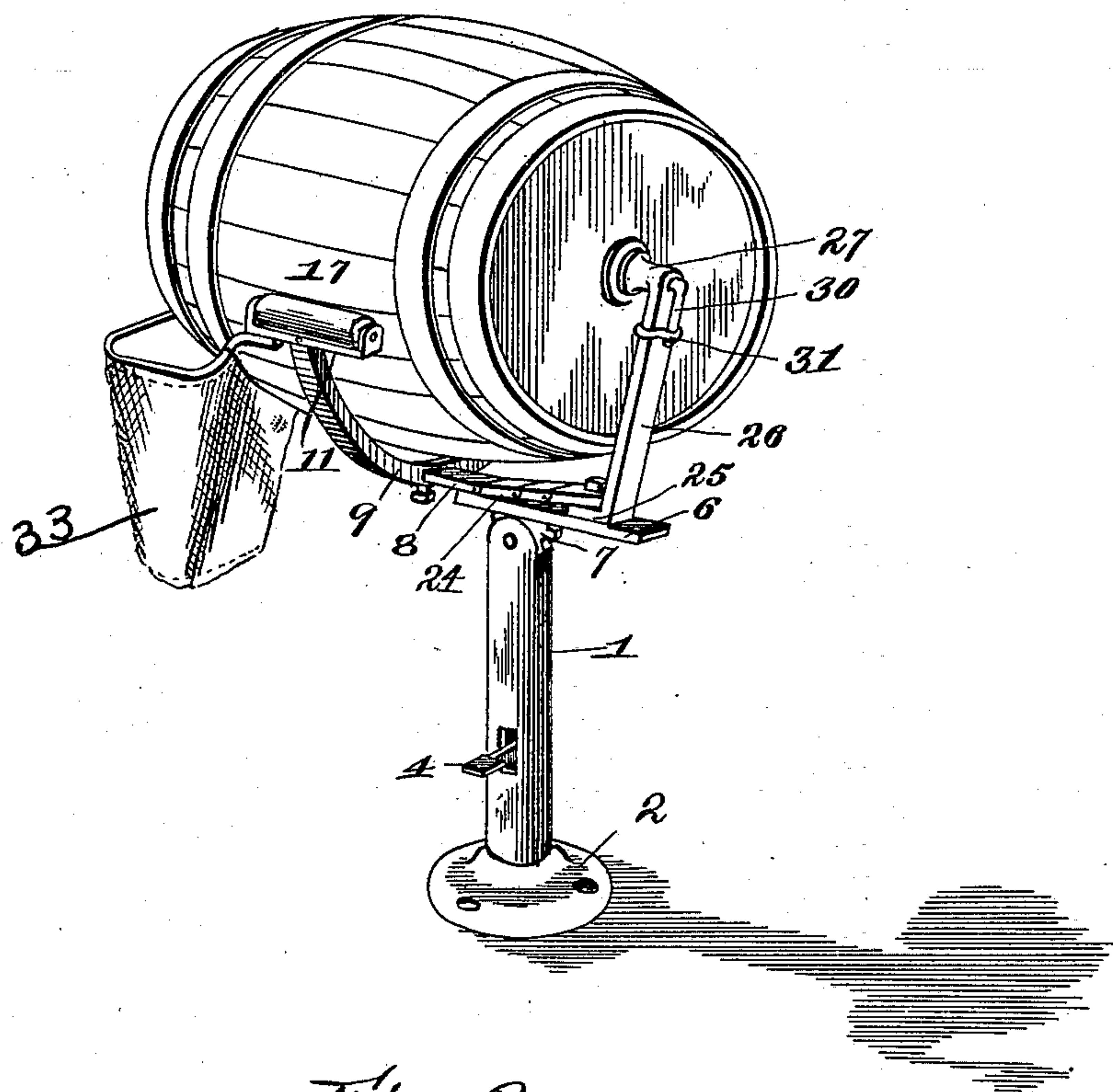
J. E. LUDWIG.  
DEVICE FOR HANDLING BARRELS.

(Application filed May 15, 1897.)

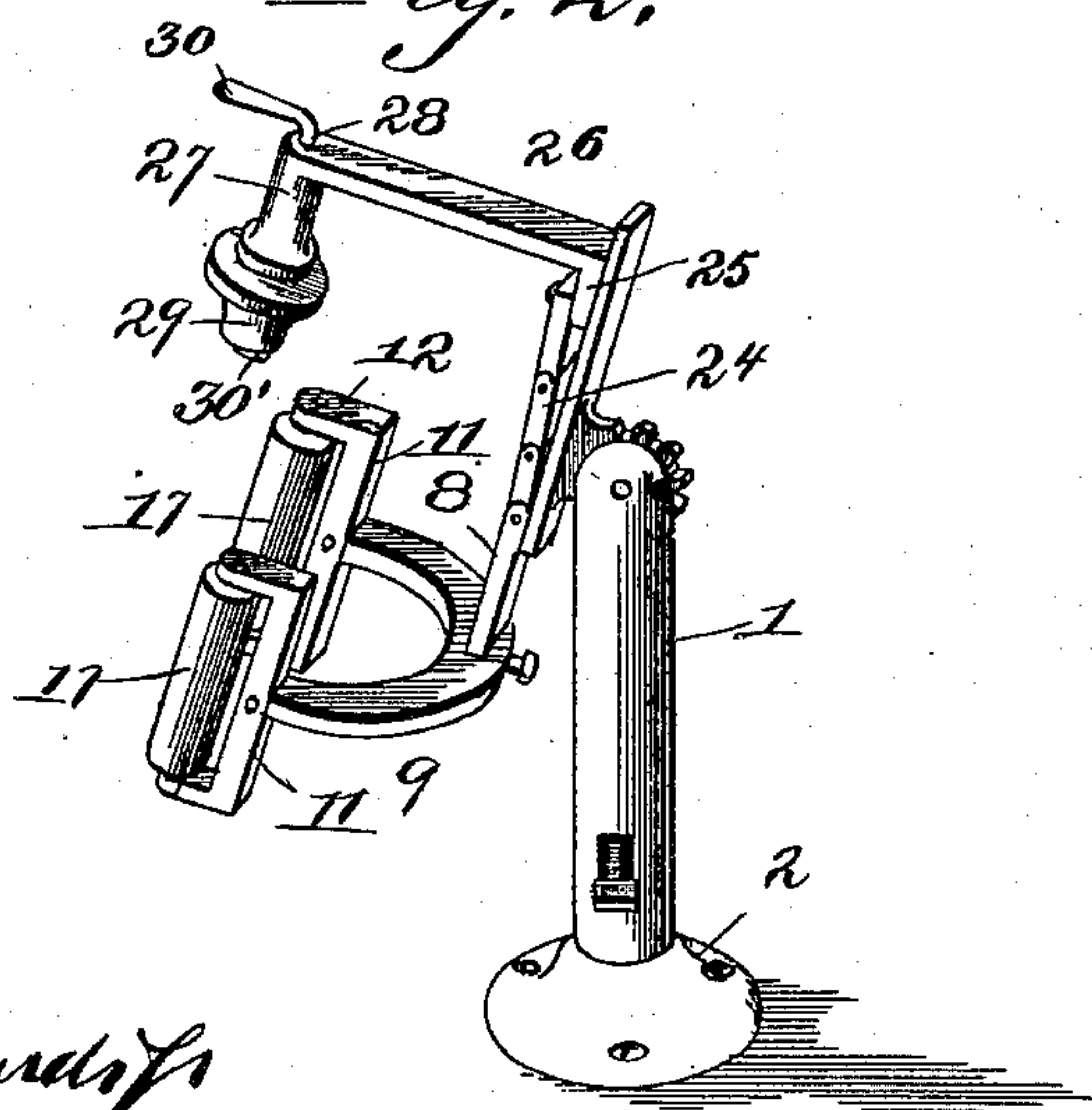
(No Model.)

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*Fig. 1.*



*Fig. 2.*



Witnesses  
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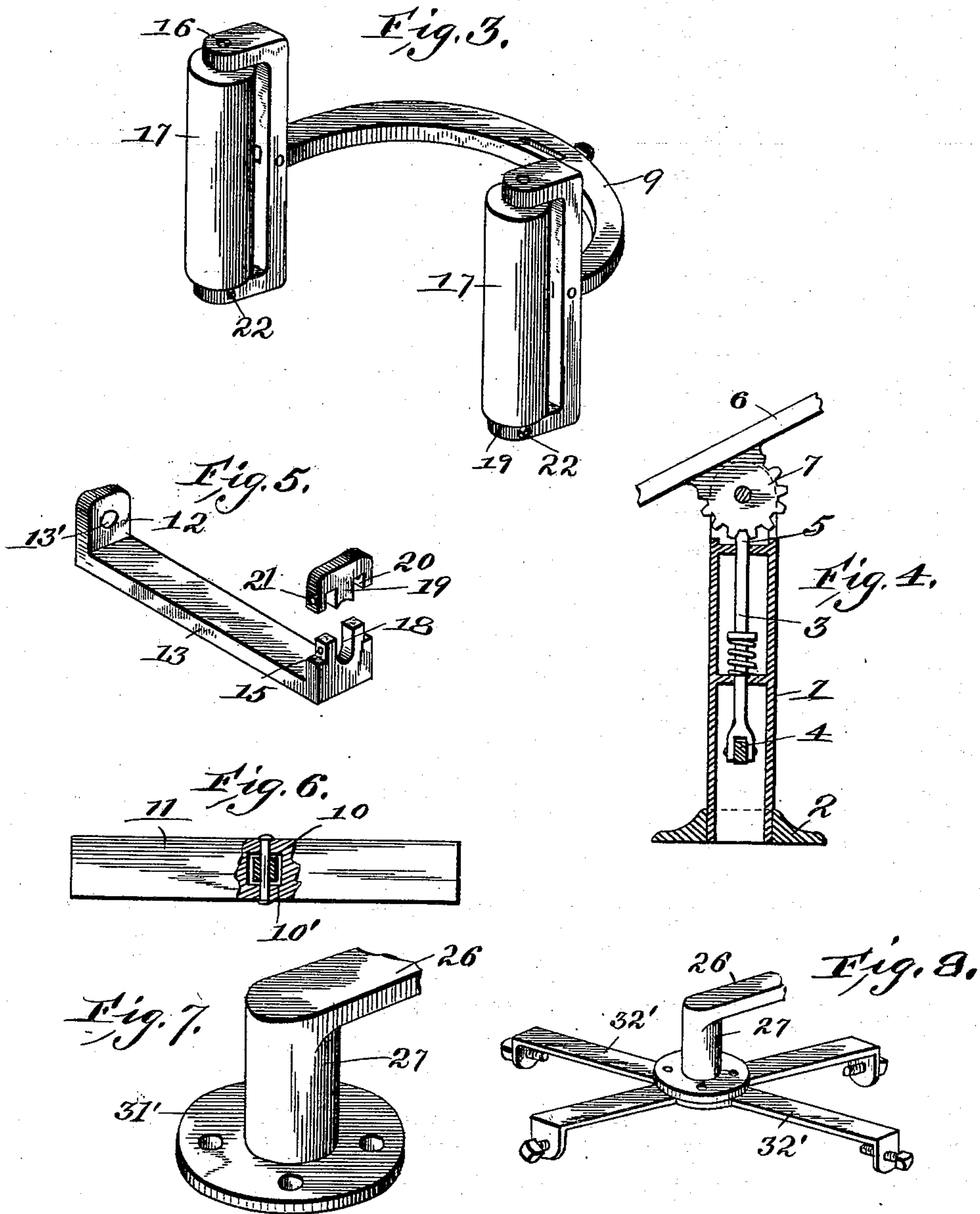
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Witnesses

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# UNITED STATES PATENT OFFICE.

JACOB ELMER LUDWIG, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO GEORGE EDWARD PARK, OF SAME PLACE.

## DEVICE FOR HANDLING BARRELS.

SPECIFICATION forming part of Letters Patent No. 637,738, dated November 21, 1899.

Application filed May 15, 1897. Serial No. 636,721. (No model.)

*To all whom it may concern:*

Be it known that I, JACOB ELMER LUDWIG, of San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Devices for Handling Barrels; and I do hereby 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.

This invention relates to devices for handling nail-kegs, pork, apple, cider, and egg barrels or other devices; and it consists, essentially, of an adjustable roller-frame adapted to tilt a keg or barrel in connection therewith at an angle to deliver the contents in a convenient manner.

The invention further consists of the details of construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

The object of the present invention is to facilitate the emptying of kegs or barrels or in obtaining a portion of the contents thereof without requiring the same to be lifted by manual force.

In the accompanying drawing, Figure 1 is a perspective view of the improved device shown supporting a keg. Fig. 2 is a similar view of the device with the parts in position for emptying or removing a portion of the contents of the keg or barrel, the latter not being shown in connection therewith. Fig. 3 is a detail perspective view of a portion of the device on an enlarged scale. Fig. 4 is a transverse vertical section through the center of the supporting standard or post. Fig. 5 is a detail perspective view of one of the roller-supports, showing the manner of positioning the roller therein. Fig. 6 is an inverted plan view of the roller-support looking toward the bottom thereof and partially broken away. Fig. 7 is a detail perspective view of a modification. Fig. 8 is a detail perspective view of a further modification.

Referring to the drawings, wherein similar numerals of reference are employed to indicate corresponding parts in the several views, the numeral 1 designates a post or support having a suitable base 2. The said post or support is hollow, and therein is movably

mounted a spring-actuated operating-rod 3, connected at its lower end to an exteriorly-positioned foot-pressure plate 4 and having a dog 5 at the upper end, the said rod being mounted in suitable guides. Depending from a base-bar 6 is a toothed segment 7, pivotally mounted in the upper end of the post and adapted to be engaged by the said dog 5. To the outer end of the base-bar 6 is secured a supporting-bar 8, with which removably engages a yoke 9, having the free ends thereof reduced, as at 10, and are movably mounted in sockets 10' in opposite roller-frames 11. The said sockets 10' are formed in the bases of the roller-frames, and the connection of the reduced ends of the yoke 9 provides a movement or play in two directions. The roller-frames have outwardly-extending ends 12 continuous with a base-bar 13, in which the said socket 10' is formed, and one of the ends 12 is provided with an aperture 13', while the opposite end has bearing-lugs 18, projecting outwardly and located inside of the outer edges of the said end, and thereby providing seats or shoulders 15. Between the two lugs the spindle or trunnion 16 on one end of a roller 17 is adjustably mounted after the opposite spindle or trunnion is inserted in an aperture 13' in the opposite end 12. When the said spindle or trunnion 16 is positioned between the lugs, a removable cap 18 is placed over the lugs and is constructed with a central keeper 19, having slots 20 on each side thereof to form lugs 21, which engage the seats 15 and are held in separable connection by removable bolts 22, passing through the lugs 21 into the lugs 14. The rollers 17 are constructed of any suitable material. Attached to the rear end of the support 8 is a series of solid links 24, to the rearmost of which is removably attached the angular end 25 of a holding-arm 26. The free end of the said holding-arm 26 is also arranged at an angle, as at 27, and therein is rotatably mounted a turn-rod 28, which, as shown in the main figures of the drawings, has a cylindrical or analogous bearing 29 thereon. The outer end of the rod has a handle 30 arranged at an angle, and the inner end is reversely situated, as at 30'. In applying this form of the device to the end or head of



a keg or barrel a hole is made in the center of the latter and the inner end 30' is inserted therethrough to bring the bearing 29 in said hole. The handle 30 is then turned down, which throws the inner end up, and when this position is attained the said handle is secured against accidental movement by a clasp 31, adjacently carried by the holding-arm 26. This form of device is intended for use with kegs or barrels containing dry contents and to accommodate barrels or kegs containing liquids. The turn-rod 28 is supplied with an inner disk, as shown by Fig. 7, which is secured to the head of said barrel or keg. In Fig. 8 a further modification is shown, and consists of a series of arms 32 on the turn-rod 28 and having outer angular ends in which set-screws 32' are mounted and adapted to take over the end of a barrel or keg and the set-screws caused to engage the body of said barrel or keg ahead of an end hoop, and thereby provide a means of securement. The last device set forth can be used alone or in combination with the other devices. Of course the barrel or keg is permitted by all the devices to have a free rotatable movement, which is very desirable. When the said holding-arm 26 is arranged against the end of a barrel or keg, the flat links 24 are positioned as shown in Fig. 2, the joints of said links being so constructed as to prevent them from being thrown forward beyond a predetermined point and the rearmost link from being depressed below the horizontal plane of the next link to which it is attached.

In operation a keg or barrel is mounted in the yoke 9 and the holding-arm is attached to the end thereof in either of the ways specified, and moved easily through contact with the rollers 17 on opposite sides, which stand inward a sufficient distance to prevent engagement of the said keg or barrel with the yoke. To facilitate emptying the contents of the keg or barrel into a bag or other receptacle, a flexible or other funnel 33 is attached to the outer ends of the roller-supports, as clearly shown in the drawings. By rotating the keg or barrel the contents can be more easily poured or delivered from the mouth thereof, or if the material contained within the keg or barrel is of a breakable nature the barrel can be tilted at such an angle as to permit its contents to be readily reached. In tilting the barrel the rear of the device is grasped as a support and the foot applied to the pressure-plate 4 to release the dog 5 from the toothed segment 7. This permits the base-bar 6 to be turned at a suitable angle, and by removing the foot from the pressure-plate 4 the said angle of adjustment will be sustained by the dog 5 engaging the adjacent tooth of the segment.

The device set forth is especially applicable in supporting nail-kegs, the contents of

which are hard to handle, and it will be understood that the device can also be made in such sizes as to be useful in drug-stores or other places for handling smaller devices or containing-receptacles.

The parts of the device as an entirety are strong and durable and readily and easily operated, and it is obviously apparent that many minor changes might be made and substituted for those shown and described without in the least departing from the nature or spirit of the invention.

Having thus described the invention, what is claimed as new is--

1. In a device for supporting kegs or barrels, the combination of an adjustable base-bar, a yoke supported by said base-bar and having rollers thereon, and an adjustable holding-arm for securing a barrel in position, substantially as and for the purposes specified.

2. In a device for holding a keg or barrel, the combination of a post or standard, a base-bar adjustably mounted on said post or standard, a yoke supported by said base-bar and carrying rollers at its ends, and an adjustable holding-arm having means in connection with the outer end thereof for engaging the end of the said barrel or keg, substantially as and for the purposes specified.

3. In a device for holding kegs or barrels, the combination of an adjustable tilting supporting-frame, a holding-arm having a turn-rod adapted to engage an opening in the end of the keg or barrel, substantially as and for the purposes specified.

4. In a device for holding kegs or barrels, the combination of an adjustable base-bar, a support extending therefrom, a yoke connected to said support and having roller-frames at its outer ends in which rollers are removably mounted, and a holding-arm, substantially as and for the purposes specified.

5. In a device for holding kegs or barrels, the combination of an adjustable base-bar, a yoke having rollers thereon, a series of solid links movably attached to the said base-bar, and a holding-arm in connection with said links, substantially as and for the purposes specified.

6. An adjustable tilting yoke for holding kegs or barrels having rollers to permit rotation of said kegs or barrels, and means for retaining the kegs or barrels in position as the yoke is tilted, substantially as and for the purposes described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JACOB ELMER LUDWIG.

Witnesses:

MARY R. LUDWIG,  
HAZEL R. LUDWIG.