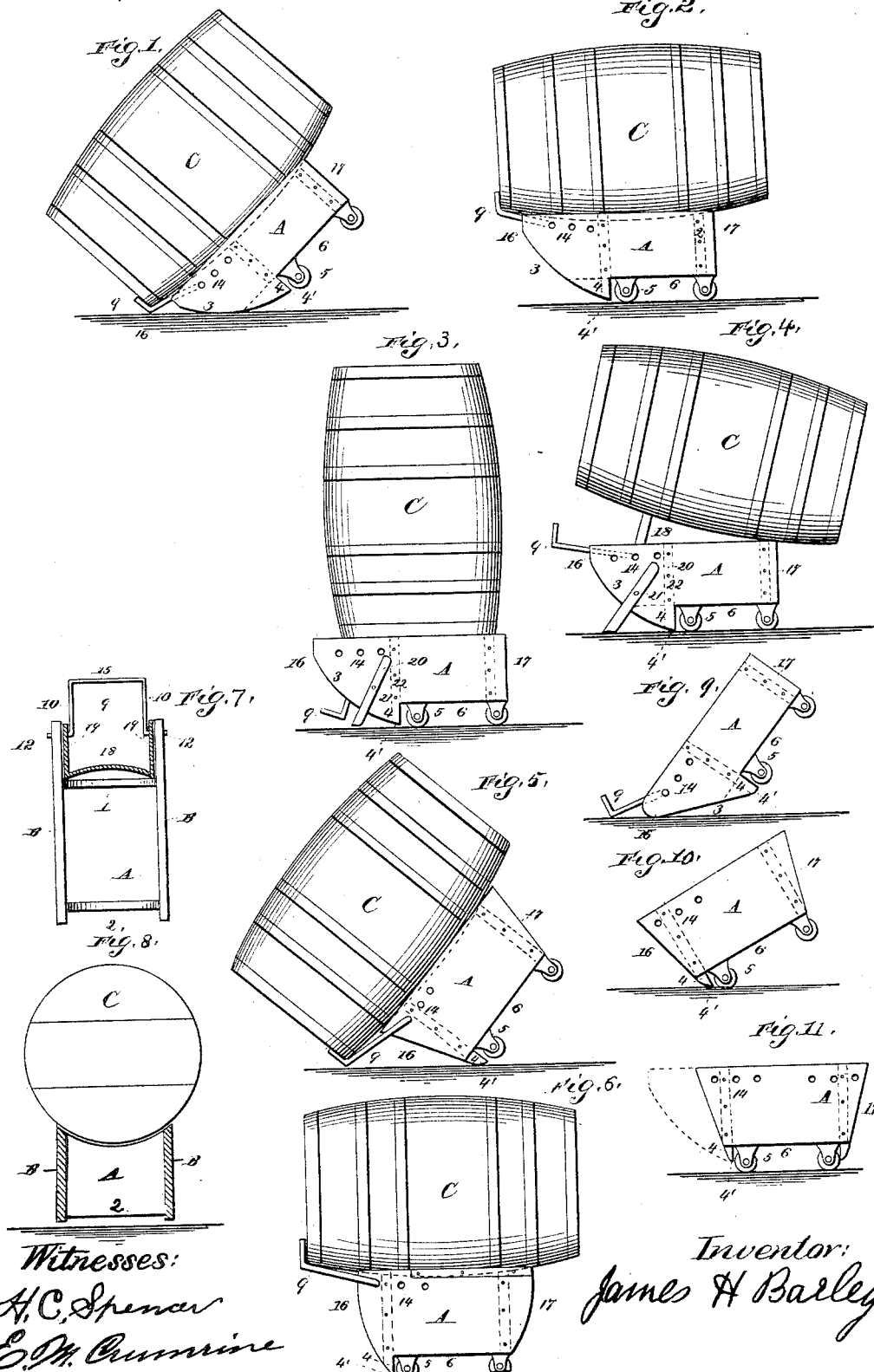


(No Model.)

J. H. BARLEY.
BARREL RACK AND TRUCK.

No. 454,448.

Patented June 23, 1891.



UNITED STATES PATENT OFFICE.

JAMES H. BARLEY, OF SEDALIA, MISSOURI.

BARREL RACK OR TRUCK.

SPECIFICATION forming part of Letters Patent No. 454,448, dated June 23, 1891.

Application filed January 2, 1891. Serial No. 376,560. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. BARLEY, a citizen of the United States of America, residing at Sedalia, in the county of Pettis and State of Missouri, have invented certain new and useful Improvements in Portable Barrel Racks or Trucks, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in portable racks or trucks upon which a heavy barrel or cask is readily mounted for drawing out the liquid contents thereof and may be readily moved or rolled over the floor to any desired place.

The leading object of this invention is to furnish an improved barrel rack or truck mounted upon rollers, having the base portion of its front end provided with base projecting fulcrums extending below the truck-frame forward of the rollers and adapted to engage with the floor when the truck is rocked or tilted forward thereon, whereby a person can readily mount a heavy barrel or cask on its side or end on the top of said rack or truck by a small expenditure of power, and at the same time simplicity, cheapness of construction, and durability are attained.

The above-named objects and advantages I attain by the mechanism substantially as herein described and illustrated in the accompanying drawings, forming part of this specification, and to the letters and figures of reference marked thereon, as hereinafter more fully described, and pointed out in the claims.

Referring to the drawings, in which Figures 1 and 5 are side views of my improved rack or truck in position for receiving a barrel or cask in readiness to be mounted thereon. Figs. 2, 3, 4, and 6 are side views of same, showing a barrel upon the rack in position ready for drawing out the liquid contents thereof. Fig. 7 is a plan top view of the rack or truck. Fig. 8 is a rear end view of same. Figs. 9, 10, and 11 show slight modifications in the shape of the frame and base projecting fulcrums.

In the drawings, A represents the rack or truck frame, and B the two side pieces thereof; C, a barrel mounted upon the rack.

In the embodiment of my invention I pre-

erably provide suitable side frame-pieces B, of wood or metal, either solid or a skeleton-shaped frame, as preferred, having suitable intermediate cross connecting frame-pieces 1 2, to the ends of which the sides B are secured, forming the rack or truck frame, as shown in the drawings. The upper part of said cross-pieces 1 and 2 being suitably rounded out to fit the convex surface of a barrel, the lower side or edge 3 of the side frame-pieces B are suitably sloped, as shown at drawing, Fig. 9, or rounded in a suitable manner, as shown at drawings, Figs. 1, 2, 3, and 4, rendering the truck-frame capable of being tilted or rocked back and forth upon the floor or support on which it rests while in the operation of mounting a barrel thereon.

For the purpose of preventing a barrel from slipping from its inclined position while mounting upon the rack, I provide a mounting-bail 9, bent at its middle portion, forming two arms 10 10, having their outer ends bent at a right angle, forming pivots 12 12, fitting into either one of a series of holes 14 in the side pieces B in relation to the size and length of a barrel to be mounted, the outer loop part 15 of said bail being bent up, as shown, catching over and against the end of a barrel, holding it from end movement while mounting in position.

One of the leading novel features of this invention is the base projecting fulcrums 4, extending below the truck-frame in close proximity to the rollers and floor without coming in contact therewith when the truck is in a horizontal position, as shown at drawings, Figs. 2, 3, 4, 6, and 11, and as the rear part of the truck is raised gradually up and forward in its tilting or rocking movement the base projecting fulcrums will engage with the floor and simultaneously raise the end rollers from contact therewith until a suitable inclined position is reached for receiving a barrel in readiness for mounting, as shown at drawings, Figs. 1, 5, 9, and 10.

The mechanical construction of the base projecting fulcrums may be varied somewhat without departing from the spirit of this part of my invention. Said fulcrums may be made in separate parts, of iron or wood, and attached to the base of the truck-frame in

any suitable manner. The cross frame-piece 1 may extend below the base portion of the frame forming said fulcrum 4, as shown at drawings, Figs. 5, 6, 10, and 11, or it may be formed integral with the frame parts B when made of either wood or iron, as shown at drawings, Figs. 1, 2, 3, 4, and 9. That part of the rocker-shaped end portion 16 (shown in Fig. 9 and in dotted lines in Fig. 11) which extends out forward of the frame and base projecting fulcrums 4, if preferred, may be dispensed with. In this instance the base fulcrums will perform the same functions as when used in connection with the rocker-shaped front end 16, but would require a somewhat heavier lift to mount a barrel in position upon the truck. It is therefore obvious that without the use of suitable base projecting fulcrums, the lower ends thereof 4', extending below the frame engaging with the floor in close proximity to the rollers, as before described, it would be quite hard, if not impossible, for a person to mount a heavy barrel or cask upon the rack or truck frame to a requisite height of twelve to fourteen inches above the floor, as the rollers on which the truck is mounted, if left free to roll, would cause the truck or barrel thereon to move back and away from the operator at every attempt to lift it in position. This difficulty I have entirely overcome by the use of base fulcrums, as fully described.

The lower side or edge of the front part 16 of the frame may be sloped, as shown at drawing, Fig. 9, which would perform the functions as the rounded base, as before described. I also provide a suitable means for elevating one end of a barrel for the purpose of drawing out all of its liquid contents, which preferably consists in the employment of a bail-shaped piece of iron 18, the upper or middle portion thereof made concave longitudinally, having two right-angle arms 19, each one being provided with a hole through its outer end, and through said holes the bent ends 12 of the mounting-bail 9 passes, forming pivots on which the bail 18 is turned up, supporting a barrel at an inclined position, as shown at drawing Fig. 4. This elevating device may be varied somewhat in construction, as a piece of wood may be pivotally supported between the side frame-pieces B and support the barrel at an inclined position, the same as the iron bail which I prefer to use, as shown. When the rack is to be used for mounting large heavy casks thereon, I provide supporting-legs 20, adjustably attached to each side of the front part thereof by pivot-bolts 21, or otherwise attached, furnishing a wider base-support for the rack, preventing any liability of the front end thereof getting tilted down and dismount the barrel, in event it is not properly mounted and balanced either on its side or end. Also suitable stops or pins 22 are used to hold the legs in position. When

a barrel is preferred to stand on its end, this is readily done by one person by first mounting the barrel on its side, then place the rear end of another rack directly under the end of the mounted barrel, which is readily up-ended on the second rack and will stand in position as shown at drawing Fig. 3, and will occupy less space upon the floor.

Having fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

1. The combination, with the frame of a portable barrel rack or truck mounted upon rollers, of base projecting fulcrums 4, formed integral therewith or detachably connected to the lower portion of the truck-frame, the contact ends 4' of said projection extending down in close proximity to the floor, forward of and near the rollers, and adapted to engage with the floor in the operation of mounting a barrel upon said truck, substantially as specified.

2. In a portable barrel rack or truck mounted upon rollers, the combination of the frame provided with base projecting fulcrums 4, extending below the base of said frame and in close proximity to the rollers and floor, the mounting-bail 9, having the ends of each of its arms attached to the rack-frame and the outer loop end thereof 15 engaging with the end of a barrel, substantially as and for the purpose specified.

3. In a barrel rack or truck mounted upon rollers, the combination of the side frame provided with a rocker-shaped front end, the lower inner portion thereof terminating in a base projecting fulcrum 4, extending below the base of the frame in close proximity to the rollers and floor, and the mounting-bail 9, attached to the rack-frame, engaging with the end of a barrel, substantially as specified.

4. In a barrel-supporting rack or truck mounted upon rollers, the combination of the side frame-pieces sloped or rounded up at their forward ends, the base projecting fulcrum 4, extending below the base of the frame in close proximity to the rollers and floor, the mounting-bail 9, engaging with the end of a barrel, and the hinged support 18, adapted to elevate one end of a barrel mounted upon said rack, substantially as specified.

5. In a portable barrel rack or truck mounted upon rollers, the combination of the side frame parts B, having a notch or recess 6 formed in each of their lower portions, terminating longitudinally forward at the base projecting fulcrum 4, the lower bearing ends thereof 4', extending below the side frame proper and in close proximity to the floor forward of and near the rollers, which are secured in said notches or recesses, substantially as and for the purpose specified.

6. In a barrel-supporting rack, the combination of the side frame parts thereof and loop-shaped mounting-bail 9, said bail having

the ends of each of its arms 10 pivotally attached to said frame and capable of longitudinal adjustment thereon, as shown, the outer front loop part 15 of said bail suitably bent up and adapted to engage with the end of a barrel or barrels of different lengths while mounting upon said rack, substantially as specified.

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

JAMES H. BARLEY.

Witnesses:

HENRY N. KNAPP,
JAMES M. BYLER.