

(No Model.)

J. C. ROBINSON.

EAR OR BAIL FOR BUCKETS, TUBS, &c.

No. 418,067.

Patented Dec. 24, 1889.

FIG. 1.

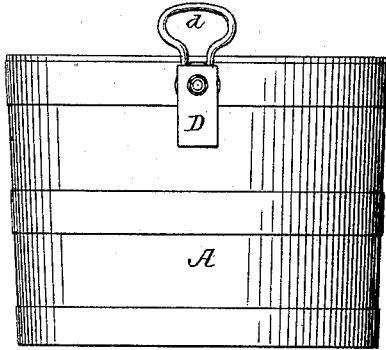


FIG. 2.

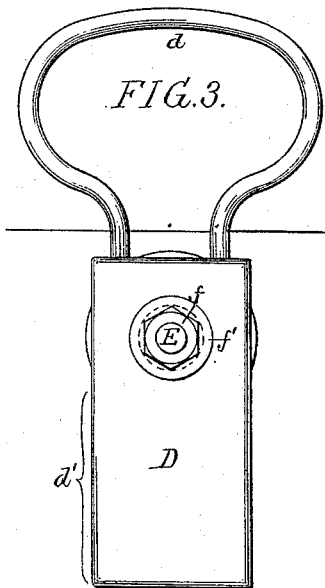
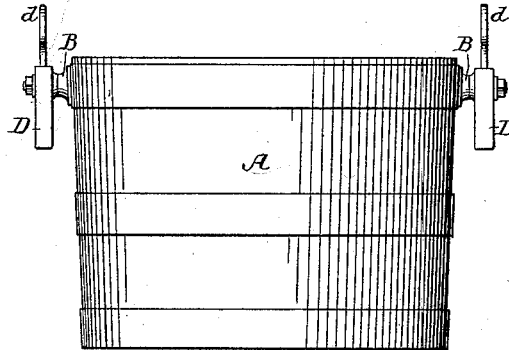


FIG. 3.

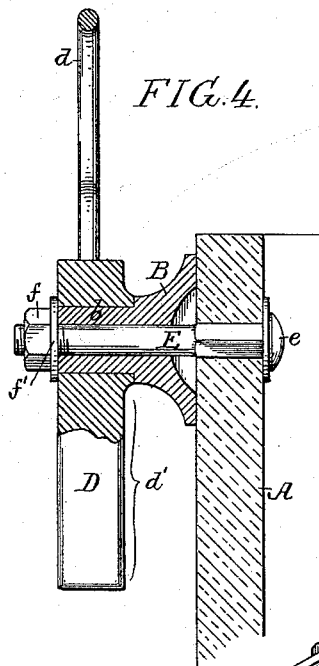


FIG. 4.

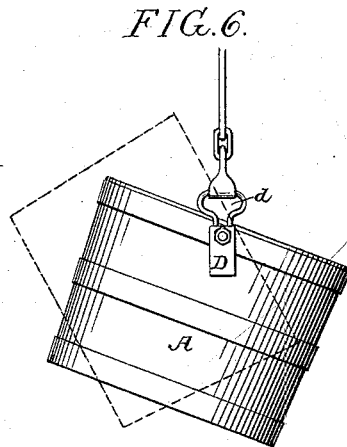


FIG. 6.

FIG. 8.

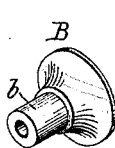
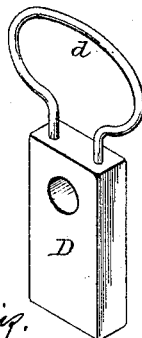
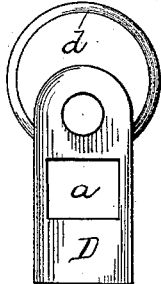


FIG. 5.

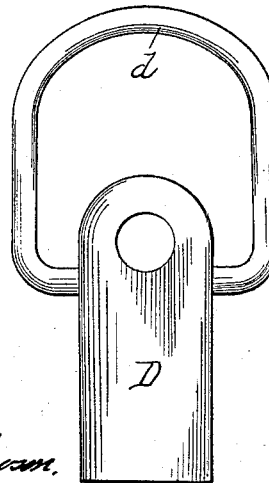


FIG. 7.

Witnesses.

Albert Popking.  
Jas. L. Skidmore.

Inventor.  
John C. Robinson,  
by his Attorneys,  
Howson & Howson.

# UNITED STATES PATENT OFFICE.

JOHN CUTLER ROBINSON, OF HAMPTON, VIRGINIA.

## EAR OR BAIL FOR BUCKETS, TUBS, &c.

SPECIFICATION forming part of Letters Patent No. 418,067, dated December 24, 1889.

Application filed November 1, 1889. Serial No. 328,917. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN CUTLER ROBINSON, a resident of Hampton, Elizabeth City county, in the State of Virginia, have invented certain new and useful Improvements in Ears or Bails for Buckets, Tubs, &c., of which the following is a specification.

The object of my invention is to so construct the ears or bails to be used in connection with buckets especially adapted for hoisting, such as oyster, coal, and analogous buckets.

The main object of the invention is to counterbalance the loops or ears so that they will always be in a vertical position, no matter in what position the bucket itself may be; and the further object is to provide the buckets with trunnions, so that they can be readily dumped to discharge the load without putting any twisting strain upon the hoisting-rope.

In the accompanying drawings, Figure 1 is a side view of the bucket with the ears attached. Fig. 2 is a face view of the same. Fig. 3 is an enlarged view of one of the ears. Fig. 4 is a sectional view of the same. Fig. 5 is a view showing the parts detached in perspective. Fig. 6 is a diagram, and Figs. 7 and 8 are modifications.

A is a bucket of suitable shape, depending altogether upon the character of work for which it is employed, and may be made out of either metal or wood, as circumstances require. Secured to each side of the bucket, near the upper edge, is a trunnion B, having a bearing-spindle *b*, upon which is pivoted the block D, having at its upper end the loop *d*, made in the peculiar form shown in Fig. 3, the loop being elongated, as shown, so as to provide a suitable hand-hole for carrying the bucket. The block D is pivoted to the trunnion B near its upper end, so that the portion *d'* acts as a counter-weight for the hand-hole *d*, tending always to keep the said hand-hole in a vertical position. The trunnion B is secured to the tub by a bolt E, having a head *e*. This bolt passes through the trunnion and is provided at its outer end with a suitable nut *f*. Between this nut and the trunnion is a washer *f'*, which prevents the block D from slipping off the trunnion. This construction enables the trunnion to be securely fastened to the tub, at the same

time allowing a free movement of the handled block.

In removing cargoes from boats—such as oysters, coal, &c.—buckets are used, derrick-rope being attached to the handles or becks of the buckets for the purpose of raising them. When the bucket is raised sufficiently, it is dumped for the purpose of removing the contents. It often happens in filling the buckets that they are in an awkward position to be hooked onto the hoisting-rope, and the handles are often strained in lifting; but by a peculiar construction of device, as shown, the handles or ears will be always in a vertical position, no matter what angle the bucket is in, which is clearly illustrated in the diagram of Fig. 6. By providing the trunnions B, fitting snugly in the block D, the buckets can be readily dumped without twisting or wearing away the hoisting-rope or chains.

The modified form of ear or handle, as shown in Fig. 7, makes it lighter and cheaper without departing from my invention; or the loop *d* may be made in the shape of a ring and the block D cast with an opening *a*, as shown in Fig. 8.

I claim as my invention—

1. A bucket having lifting-ears counterbalanced and pivoted to the bucket, substantially as described.

2. The combination of a bucket and a trunnion secured thereto with a counterbalancing-block pivoted to said trunnion and provided with a loop, substantially as described.

3. The combination of a bucket with the counterbalancing-block D, pivoted thereto, having an elongated ear, bent substantially as shown, and secured to the block D, substantially as described.

4. The combination of a bucket with the trunnion B, the counterbalancing-block D, pivoted at its upper end to the trunnion and provided with a loop or ear *d*, and the securing-bolt E, passing through the bucket and trunnion, substantially as described.

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

JOHN CUTLER ROBINSON.

Witnesses:

R. B. CHAPPELL,  
H. L. SCENNY.