

(No Model.)

E. O'NEILL.
HOISTING DEVICE.

No. 596,908.

Patented Jan. 4, 1898.

Fig. 1.

Fig. 5.

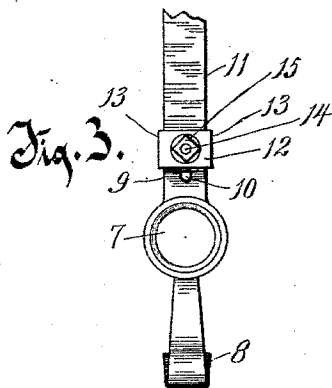
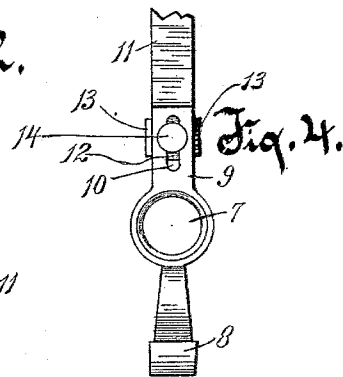


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

EDWARD O'NEILL, OF MILWAUKEE, WISCONSIN.

HOISTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 596,908, dated January 4, 1898.

Application filed November 23, 1896. Serial No. 613,105. (No model.)

To all whom it may concern:

Be it known that I, EDWARD O'NEILL, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in Hoisting Devices, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My invention has relation to improvements in hoisting devices used ordinarily on freight vessels for elevating and lowering barrels and the like. In the means now in common use for the purpose the hooks are suspended loosely and separately from a looped rope in such manner as to necessitate their separate adjustment to the chimes of a barrel, an operation obviously involving considerable time and labor.

It is the object of my invention to so construct and connect the hooks in sets that, each hand grasping, respectively, one hook of a set, the hooks farthest from the ones grasped are capable of being first adjusted beneath the chimes of the barrels and then the hooks which are held by the hands next adjusted to the opposite chimes of the barrels.

The invention further contemplates as an object a simple adjusting mechanism whereby the distance between the hooks of a set is regulated to suit different lengths of barrels.

The invention consists of the devices and parts or their equivalents, as hereinafter more fully set forth and claimed.

In the accompanying drawings, Figure 1 is a side elevation showing the hooks of one set in proper position to be adjusted to a barrel. Fig. 2 is a view at right angles to Fig. 1, showing a hook of each set beneath the chimes of the barrels. Fig. 3 is a plan view of one of the hooks and a fragment of its connecting-strap. Fig. 4 is an inverted plan of Fig. 3; and Fig. 5 is a view of a slight modification, the strap 11 being in section.

Like numerals of reference denote like parts throughout the several views.

Referring to the drawings, the numerals 5 indicate ropes arranged in the ordinary loop form, as in this class of devices. The upper ends of these loops are attached to a single large pendent rope 6, to which rope the power

for elevating is applied. Each loop is provided with two hooks, and these hooks each consists of a central medial eye 7, through which the loop passes freely, a hook extension 8, and an oppositely-extending arm 9, the latter provided with an elongated slot 10.

The numeral 11 indicates a strap, preferably of flat spring metal. The two hooks of a set are connected by one of these straps and the opposite ends of the strap secured to the arms 9 9. Plates 12 12 fit over the ends of the strap and the ends of the arms 9 9, said plates formed with downwardly-projecting flanges 13 13 to prevent lateral displacement. Bolts 14 pass through the elongated slots 10 of the arms 9 and through the plates 12, the heads of said bolts bearing against the under sides of the arms 9. The threaded ends of the bolts receive nuts 15. By this means provision is made for adjusting the length of the strap to more readily adapt the hooks for barrels of varying lengths. In order to accomplish this adjustment, all that is necessary is simply to loosen the nuts 15, and after the strap has been adjusted to the length desired to again tighten said nuts.

In applying my improved device a hook or a strap 11 is grasped in each hand, and inasmuch as the hooks are connected in sets by the straps 11 the hooks farthest from those grasped are readily placed beneath the chimes of the barrels to be elevated or lowered. The hooks which are held by the hands are next placed under the chimes of the opposite ends of the barrels, so that both sets of hooks are adjusted simultaneously and in a manner involving but very little trouble and loss of time. It will also be observed that inasmuch as the straps 11 11 are preferably of spring metal and bowed upwardly when the hooks are adjusted in the manner just described the straps will have a tendency to automatically retain the hooks in place, even before a strain or tension is applied to the pendent rope 6.

It is obvious that slight modifications may be made without departing from the spirit and scope of my invention, and I do not, therefore, wish to be understood as confining myself to the particular construction herein

shown and described. For instance, it is not absolutely necessary that the straps 11 11 be made separate from the projecting arms 9 9, as successful results can be obtained by constructing said arms and the straps integral.

5 In the form shown in Fig. 5 I omit altogether the plate 12, and instead of the flanges 13 13 of said plate 11 I simply flange the edges 10 of the arm 9 upwardly, as indicated at 9' 9'. This subserves the same function as the flanged plate 12 and dispenses with an extra part.

15 Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

20 1. A hoisting device consisting of two hook members provided with eyes adapted for the passage of a rope therethrough, the eyed portions of the hooks provided with shanks projecting inwardly therefrom, and a connecting member of spring metal, said connecting member continuous longitudinally with the

shanks of the hooks, and adapted to hold said hooks a desired distance apart. 25

2. In a hoisting device, the combination with hooks provided medially with eyes adapted for the passage of a rope therethrough, the shanks of the hooks extending inwardly from the eyed portions thereof, of a strap having 30 its opposite ends connected to the shanks of the hooks, and continuous longitudinally with said shanks.

3. In a hoisting device, the combination, of hooks having the shanks thereof near their 35 inner ends provided with elongated slots, a connecting-strap, and adjusting-bolts passing through the ends of the strap and through the elongated slots of the shanks.

In testimony whereof I affix my signature 40 in presence of two witnesses.

EDWARD O'NEILL.

Witnesses:

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