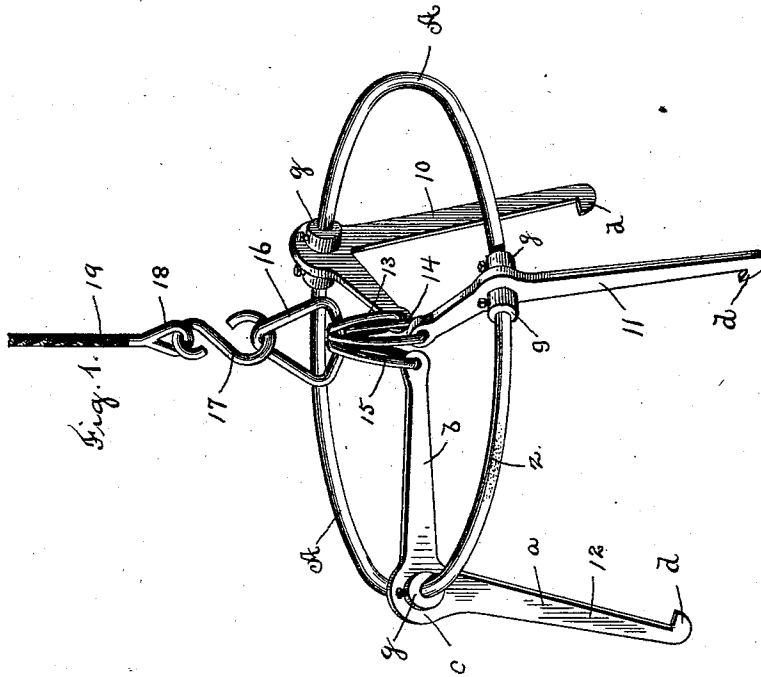
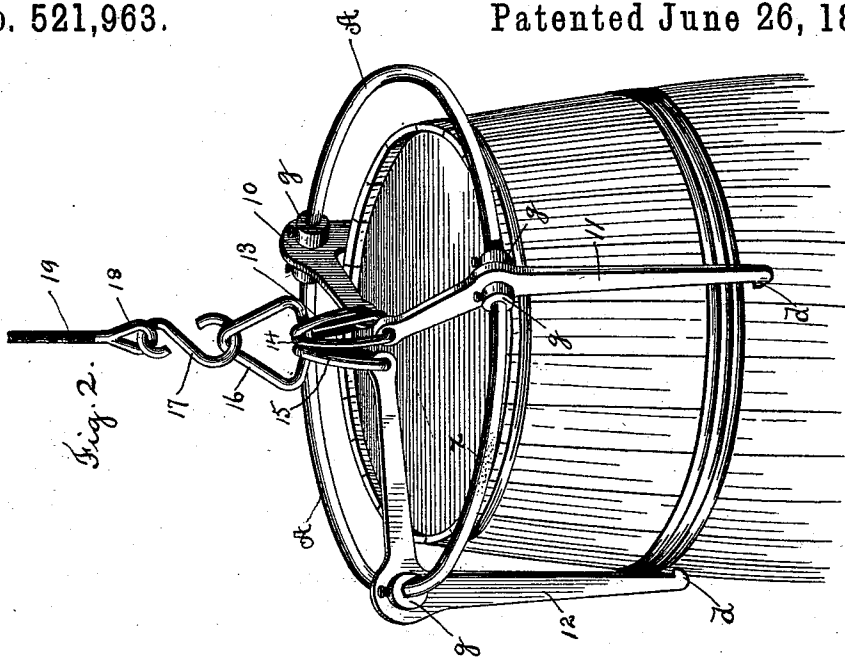


(No Model.)

C. W. NASON.  
GRIPPING DEVICE.

No. 521,963.

Patented June 26, 1894



Witnesses  
Chas. F. Schuder  
E. M. Healy

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# UNITED STATES PATENT OFFICE.

CARLETON W. NASON, OF NEW YORK, N. Y.

## GRIPPING DEVICE.

SPECIFICATION forming part of Letters Patent No. 521,963, dated June 26, 1894.

Application filed February 19, 1894. Serial No. 500,667. (No model.)

*To all whom it may concern:*

Be it known that I, CARLETON W. NASON, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Improvement in Gripping Devices, of which the following is a specification.

The object of my invention is to provide a strong, simple, and efficient gripping device for raising packages, and to this end, my invention consists of the parts and combinations of parts, as hereinafter described, and more particularly pointed out in the claims at the end of this specification.

In the accompanying drawings, Figure 1 is a perspective view showing my gripping device with the jaws partly open, and Fig. 2 is a similar view showing how my gripping device may be applied to a barrel.

Referring to the drawings and in detail, A designates a wrought iron fulcrum ring, upon which are mounted a plurality of gripping jaws as 10, 11, and 12. These gripping jaws are of similar construction, and are made in the form of bell-crank levers having the substantially horizontal radial arms *b*, and the substantially vertical arms *a*. Where the arms *a* and *b* join, each gripping jaw is provided with an enlarged portion *c*, in which is drilled a hole, so that the gripping jaw may be pivoted on the fulcrum ring A. Near their lower ends, the gripping jaws are provided with projections *d*, which are adapted to engage the package, which is to be hoisted. The radial arms of the gripping jaws, extend nearly to the center of the fulcrum ring, and are connected by links as 13, 14, and 15, with a link 16, which is carried by an S shaped link 17, which is connected to an eye 18 carried by the hoisting rope or cable 19. The gripping jaws are circumferentially adjustable upon the ring A, and are held in their adjusted positions by the collars *g*, which are secured by set screws, as shown.

In constructing my improved gripping device, an iron bar is cut the required length, to form the fulcrum ring A, and the gripping jaws and the collar *g* are placed upon the same, and the bar is then bent to form the ring A, the ends of the bar being welded to-

gether as at *z*. It will thus be seen that my gripping device may be readily and cheaply constructed.

Of course, the number of gripping jaws may be varied as desired, but I prefer an odd number of jaws, and I preferably employ three of them.

The gripping jaws may be circumferentially adjusted upon the fulcrum ring in order to secure a better hold, and to conform more nearly to the shape of the package which is being hoisted.

I am aware that many other changes may be made by a skilled mechanic in constructing my device, and I do not wish to be limited to the exact construction which I have shown and described, but

What I do claim, and desire to secure by Letters Patent of the United States, is—

1. In a gripping device, the combination of a plurality of gripping jaws, a support or ring passing through said jaws, and forming fulcrums therefor, means for securing the jaws in position upon said ring, and means for actuating the jaws to engage a package, substantially as described.

2. In a gripping device, the combination of an odd number of bell crank shaped gripping jaws, a ring or support passing through said jaws and forming fulcrums therefor, collars for securing the jaws in place upon said ring or support, and a hoisting rope connected to said jaws, and adapted to actuate them to engage a package, substantially as described.

3. In a gripping device, the combination of the fulcrum ring, and circumferentially adjustable gripping jaws carried by said ring, substantially as described.

4. In a gripping device, the combination of a fulcrum ring, circumferentially adjustable bell-crank shaped gripping jaws pivoted on said fulcrum ring, clamping collars for holding the gripping jaws in their adjusted positions, and means for actuating the gripping jaws, substantially as described.

5. In a gripping device, the combination of a fulcrum ring formed of a wrought iron bar having its ends welded together, three circumferentially adjustable bell-crank shaped gripping jaws having radial arms pivoted on

said fulcrum ring, clamping collars for holding said gripping jaws in place, links for connecting the radial arms of the gripping jaws with a link carried by the hoisting rope or  
5 cable, the hoisting rope or cable and the link carried thereby, all arranged and operating, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CARLETON W. NASON.

Witnesses:

JOHN J. MURRAY,  
SAMUEL GREASON.