No. 822,897. PATENTED JUNE 5, 1906.

J. A. LEASE.

LIFTING HOOK.

APPLICATION FILED NOV. 22, 1905.

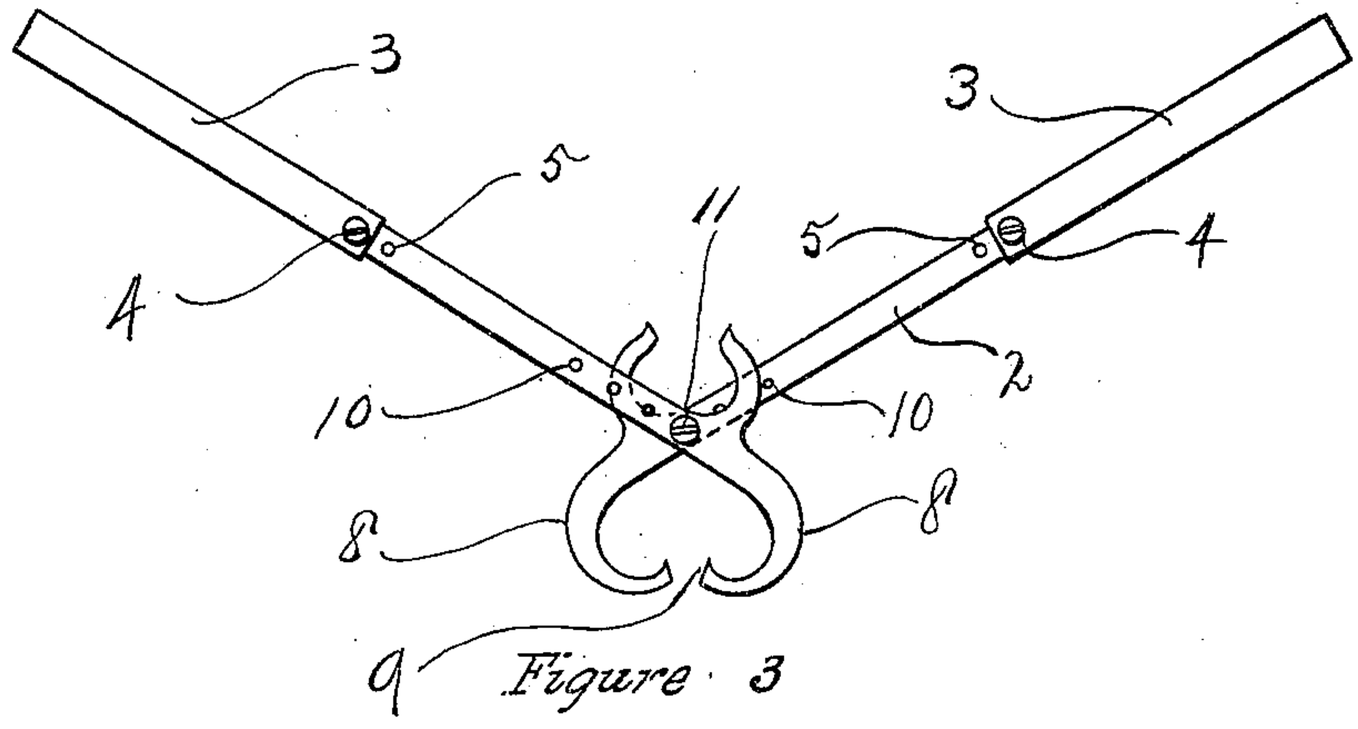

Figure 3

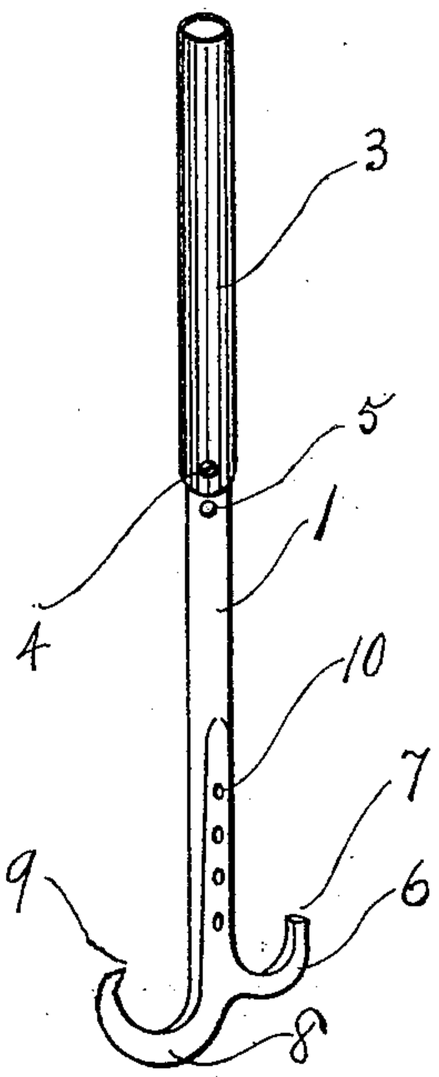

Figure 2

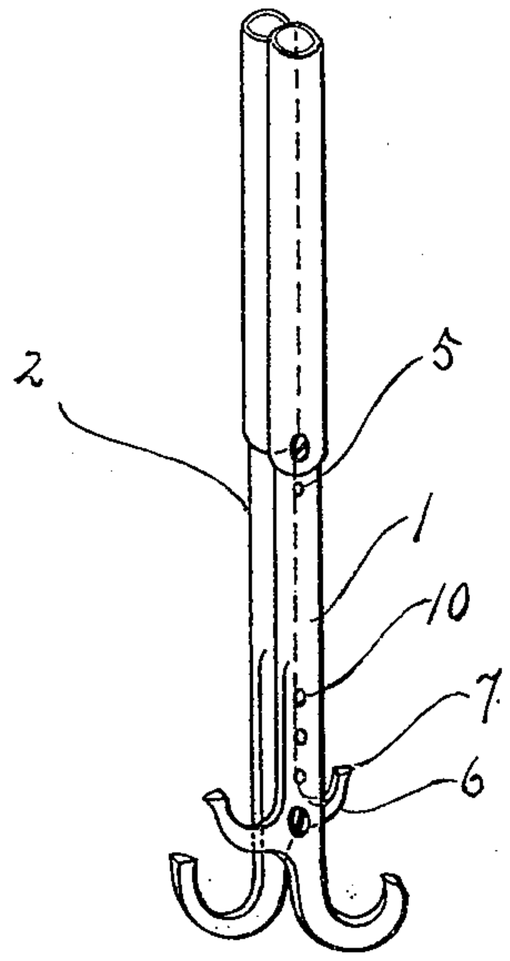

Figure 1

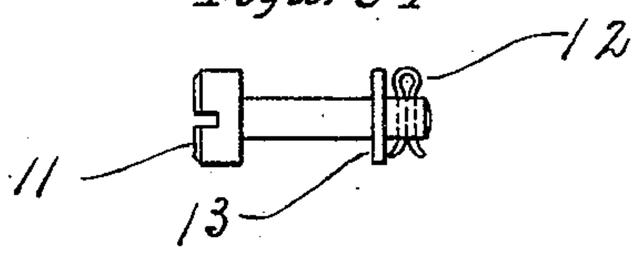

Figure 4

Witnesses-
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UNITED STATES PATENT OFFICE.

JESSE A. LEASE, OF TOLEDO, OHIO.

LIFTING-HOOK.

No. 822,897. Specification of Letters Patent. Patented June 5, 1906.

Application filed November 22, 1905. Serial No. 288,609.

To all whom it may concern:

Be it known that I, JESSE A. LEASE, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in a Lifting-Hook, of which the following is a specification.

This invention relates to lifting-hooks which by their novel construction are intended to be particularly adapted for the ordinary application of grappling, lifting, carrying, and moving heavy objects—such as railway rails, ties, and the like—wherein is usually required the service of two or more men, and which lifting-hook as such is designed to provide certain new and useful improvements over the construction and arrangement of those which have heretofore been known or used for such a purpose.

The essential object of the present invention is to provide a lifting-hook which is simple in construction and which by its arrangement can be readily and hastily applied to various-sized objects due to its two-sized grapplers, which with convenience and but little effort and time can be quickly adjusted so as to be more advantageously applied to smaller or larger objects.

A further object of the present invention is to provide a lifting-hook the construction of which is neither massive nor complicated, but strong and durable.

The invention consists in the novel construction and combination of parts which comprise such an adjustable lifting-hook, wherein is required the service of two or more men in its application, as will be hereinafter fully described and claimed.

In the accompanying drawings, Figure I is a front elevation of the lifting-hook as viewed after it has been folded either for non-use or as being made usable more readily as a cant-hook lever. Fig. II is a front elevation of but one of the two levers which when after being properly joined form the lifting-hook. Fig. III is a side elevation of the lifting-hook, taken when after the same has been opened for an application of grappling. Fig. IV is a side elevation of the ordinary keyed bolt used in joining the two levers used in forming the lifting-hook.

Like numerals refer to similar and corresponding parts throughout the figures of the drawings.

I desire to be understood as not limiting my claims for protection to the specific description herein set forth, but desire to so further include all that which comes within the spirit and scope of my invention.

Numerals 1 and 2 designate bars of iron, preferably three or more feet in length and three or more inches in width and one or more inches thick, which are bent at one end, toward which it tapers and terminates with a perpendicularly crosswise positioned lug 9 and is like a hook of about one or one and one-half foot in dimension, beginning its formation at some point beyond 8. Said iron bars 1 and 2 have on each, emanating therefrom at a point a short distance above 8, a like sized and shaped hook 6, which is wrought, cast to, or attached to the opposite side of said bar as relatively positioned to the former hook and having at its terminus a perpendicularly-positioned lug 7, likened to the calk on an ordinary horseshoe. Said lugs 7 and 9 serve as penetrators for securely holding objects within said grappling-hooks. The aforesaid iron bars 1 and 2, of which the latter is just like the first, have both holes 10 for joining bolt 11 to pass through, properly and securely hinging the two hooked levers which form the lifting-hook in any such adjusted size for objects as may be desired. The said iron bars or hooked levers have both holes 5 5 at the end thereof whereby the hollow tube-handles 3 3, preferably two feet each in length, can be secured to said hooked levers by the ordinary bolt 4 4, permitting an adjustment as to the amount of leverage or power desired, as well as affording convenient variation for length of same provided by means of these holes.

It can be readily seen that hooks 6 6 form the smaller-sized grapple and the oppositely-formed hooks below, 8 8, form the larger-sized grapple, after being properly hinged, as hereinbefore specified, and that either size of the grapple is caused to close in a grasping manner as against any object thereinbetween placed by the lifting of the handles 3 3, when at the same time, respectively, the sized grappling-hooks above and opposite move apart from each other.

Instead of the ordinary bolt used in holes 10 and 5 it is suggested for more hasty and convenient adjustment that keyed bolt 11 be so used, having a rubber washer 13 placed as between key 12 and hooked lever 1 or 2.

The advantage of securely grappling heavy objects and lifting or carrying them more conveniently is apparent.

It further is quite apparent that a lifting-hook constructed in accordance to the aforegoing specification will provide extraordinary leverage power ordinarily not acquirable.

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

1. In a lifting-hook, two joined hooked levers or bars having each a grappling-hook formation at one end thereof, and another similar hooked formation emanating from said bar just above the former hook at the end but on the opposite side of the bar, penetrating lugs or calks at the termination of each hook substantially as described.

2. In a lifting-hook, two joined hooked levers or bars having each a grappling-hook formation at one end thereof, and another similar hooked formation emanating from said bar just above the former hook at the end but on the opposite side of the bar, penetrating lugs or calks at the termination of each hook, holes in said bar interposed for adjustable joining of said hooked levers, further holes in said bar interposed for adjustable lengthening of handle for convenience or leverage power, tubular handle attached to said hooked levers substantially as set forth and described.

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

JESSE A. LEASE.

Witnesses:
ALFRED J. CROLL,
CHARLES A. FREEMAN