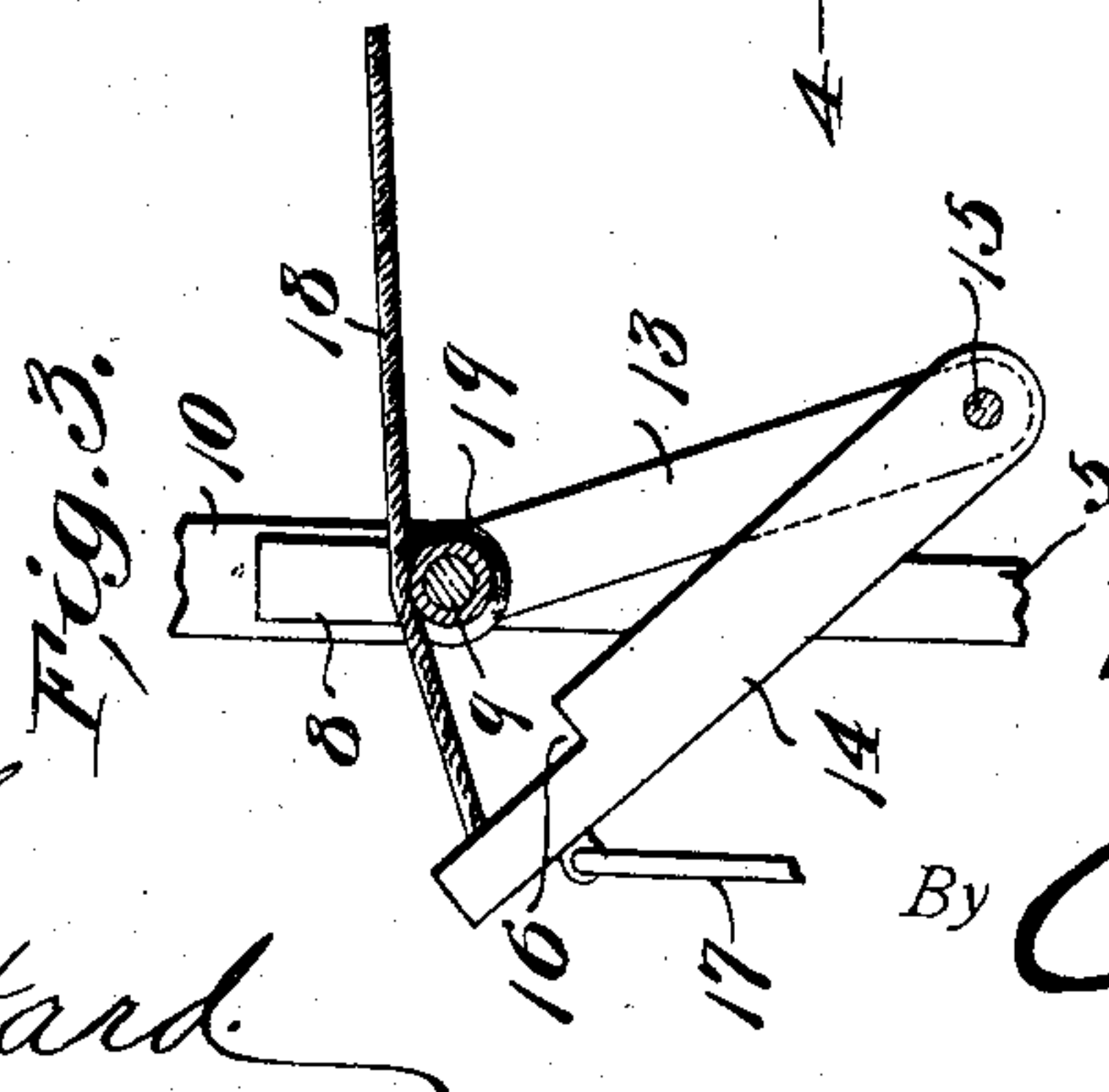
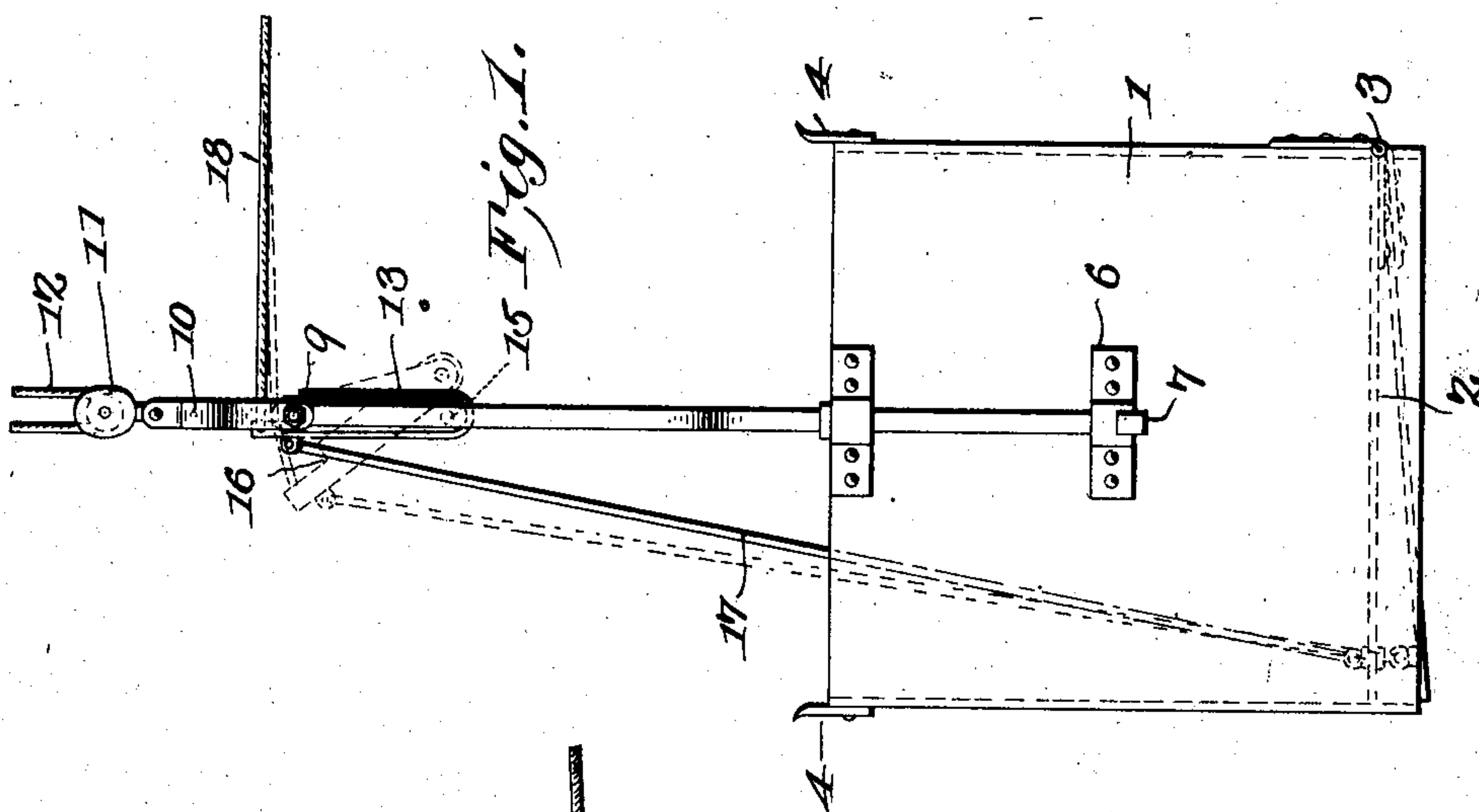
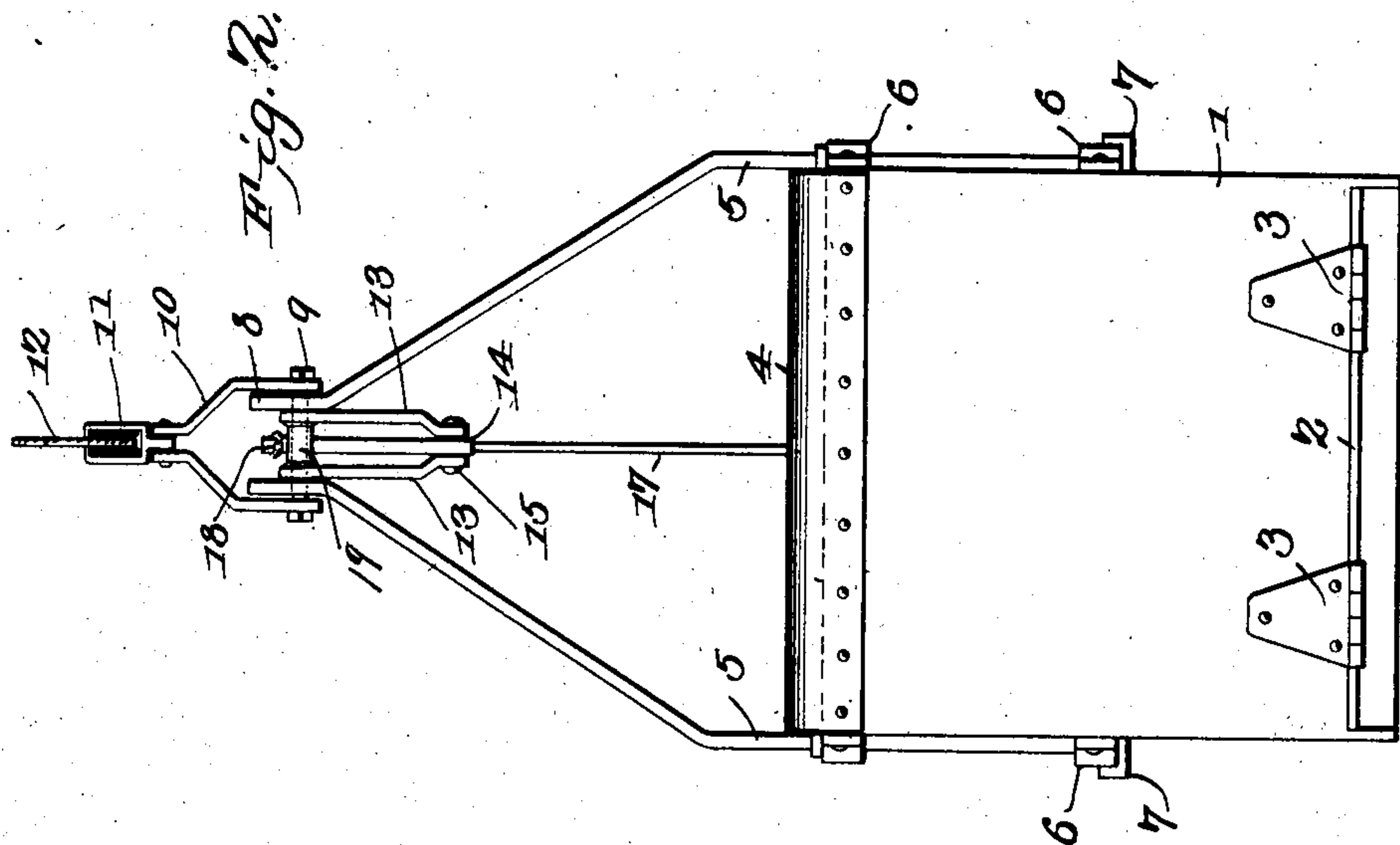


No. 834,475.

PATENTED OCT. 30, 1906.

W. H. JESSUP.
HOISTING BUCKET.

APPLICATION FILED JAN. 31, 1906.



WITNESSES:

E. H. Stewart
H. C. Shepard

William H. Jessup,
INVENTOR.

By

C. A. Snow & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM H. JESSUP, OF SHERIDAN, INDIANA.

HOISTING-BUCKET.

No. 834,475.

Specification of Letters Patent.

Patented Oct. 30, 1906.

Application filed January 31, 1906. Serial No. 298,887.

To all whom it may concern:

Be it known that I, WILLIAM H. JESSUP, a citizen of the United States, residing at Sheridan, in the county of Hamilton and State of Indiana, have invented a new and useful Hoisting-Bucket, of which the following is a specification.

This invention relates to buckets for excavating and hoisting apparatus, and has for its object to positively maintain the bottom of the bucket closed during excavating and transporting operations and to insure the prompt release and opening of the bucket for dumping the latter. In this connection it is proposed to have the dumping-bottom of the bucket controlled by the outhaul-cable, so as to obviate the manual releasing of the bottom of the bucket when it is desired to dump the same.

With this object in view the invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a side elevation of an excavating-bucket embodying the features of the present invention. Fig. 2 is a view at right angles to Fig. 1. Fig. 3 is an enlarged fragmentary view of a detail of the invention, parts being broken away to show an antifriction-roller.

Like characters of reference designate corresponding parts in all of the figures of the drawings.

The body 1 of the present bucket is of any approved shape and appropriate size with its top open and its lower end closed by a swinging bottom 2, hinged at its forward edge, as at 3, and disposed upwardly from the bottom edges of the sides of the bucket when closed. At the front and rear of the top of the bucket are metal plates 4, riveted or otherwise secured to the outer side of the bucket and rising above the top thereof, the upper edges of the plates being provided with cutting edges which are beveled or turned outwardly. These plates not only serve as cutter or scraper blades for excavating purposes, but also brace and strengthen the top of the bucket.

For the purpose of suspending the bucket there are bail members 5 lying at opposite sides of the bucket and received within vertical alined loops or brackets 6, secured to the exterior of the bucket, the lower end of each bail member being hooked, as at 7, so as to embrace the bottom of the adjacent lower loop or bracket. The bail members converge across the top of the bucket and terminate in substantially parallel upstanding portions 8, which are pierced by a pin or cross-bar 9. A yoke or clip 10 embraces the terminal ears 8 of the bail members 5 and is pierced by a pin or bar 9, there being a pulley or suitable guide 11 provided upon the top of the clip through which runs a hoisting-cable 12. A pair of spaced links or hangers 13 depend from the pin or cross-bar 9 and support an upstanding lever 14, which is received between the links or hangers and fulcrumed thereon at their lower ends by a suitable pivot-pin 15. This lever works in rear of the pin or cross-bar 9 and rises above the latter, the forward edge of its upper portion being reduced to form a transverse shoulder 16, which is adapted to take under the pin or cross-bar 9 in the upright position of the lever. Between the lever 14 and the free end of the bottom 2 of the bucket there is a suitable connection 17, either a rod or a rope, and a pull-cable 18 is connected to the upper end of the lever above the pin or cross-bar 9 and connected to a suitable winding-drum, (not shown,) whereby the bucket is drawn forwardly to the position where it is to be dumped.

In practice the bottom of the bucket being closed by reason of the lever 14 being held against the pin or cross-bar 9 by the pull on the cable 18, the bucket is filled in any suitable manner, after which it is hoisted by the cable 12 and then drawn to any desired position by the pull-cable 18. When the bucket reaches its destination, the winding-drum for the cable 18 is released, thereby releasing the lever 14 and permitting the weight of the material in the bucket to open the hinged bottom 2, and thereby promptly dump the bucket in a positive manner.

From the foregoing description it will be understood that the present invention dispenses with latches and similar locking means for the dumping-bottom of the bucket and provides for holding the bottom closed and releasing the same by the pull-cable or outhaul-cable, which is connected to the le-

ver 14, thereby dispensing with the services of an attendant at the location of the dumping of the bucket to release the bottom thereof.

5 To prevent wear upon the rope 18, a rotatable sleeve or spool 19 is fitted upon the pin 9 between the hangers 13, the rope being adapted to engage the sleeve when the bottom of the bucket is open.

10 Having thus described the invention, what is claimed is—

1. A hoisting-bucket having a dumping-bottom, a suspending-bail for the bucket, a bracket hung from the top of the bail, an
15 upstanding lever fulcrumed upon the bracket and rising above the top of the bail for contact therewith to limit one direction of movement of the lever, and a connection between the lever and the bottom of the bucket.

20 2. A hoisting-bucket having a dumping-bottom, a suspending-bail for the bucket, a yoke rising from the top of the bail, a pulley carried by the yoke, a bracket hung from the top of the bail, a lever fulcrumed upon the
25 bracket and rising above the top of the bail

for contact therewith to limit one direction of movement of the lever, and a connection between the lever and the bottom of the bucket.

3. In a hoisting apparatus, the combination of a bucket having a dumping-bottom, a suspending-bail for the bucket, a pulley connected to the top of the bail, a hoisting-cable engaging the pulley, a bracket hung from the top of the bail, an upstanding lever fulcrumed upon the bracket and rising above
30 the top of the bail for contact therewith to limit one direction of movement of the lever, said lever having a locking-shoulder to engage beneath the top of the bail, a pull-cable
35 connected to the lever, and a connection between the lever and the bottom of the bucket.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WM. H. JESSUP.

Witnesses:

T. S. SPENCER,
C. E. HOFFMAN.