

(No Model.)

J. H. SMITH.
HOISTING BUCKET.

No. 540,116.

Patented May 28, 1895.

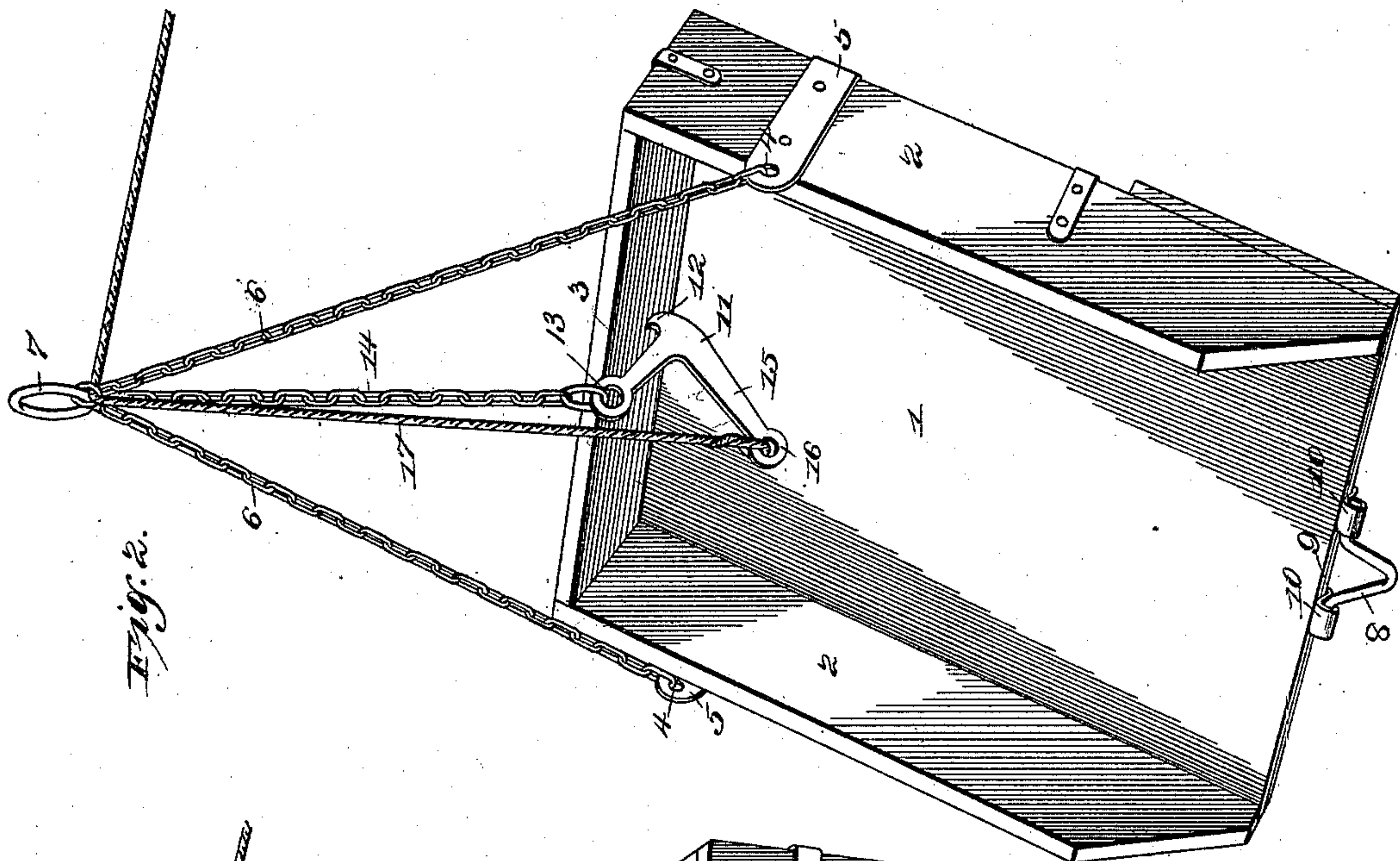


Fig. 2.

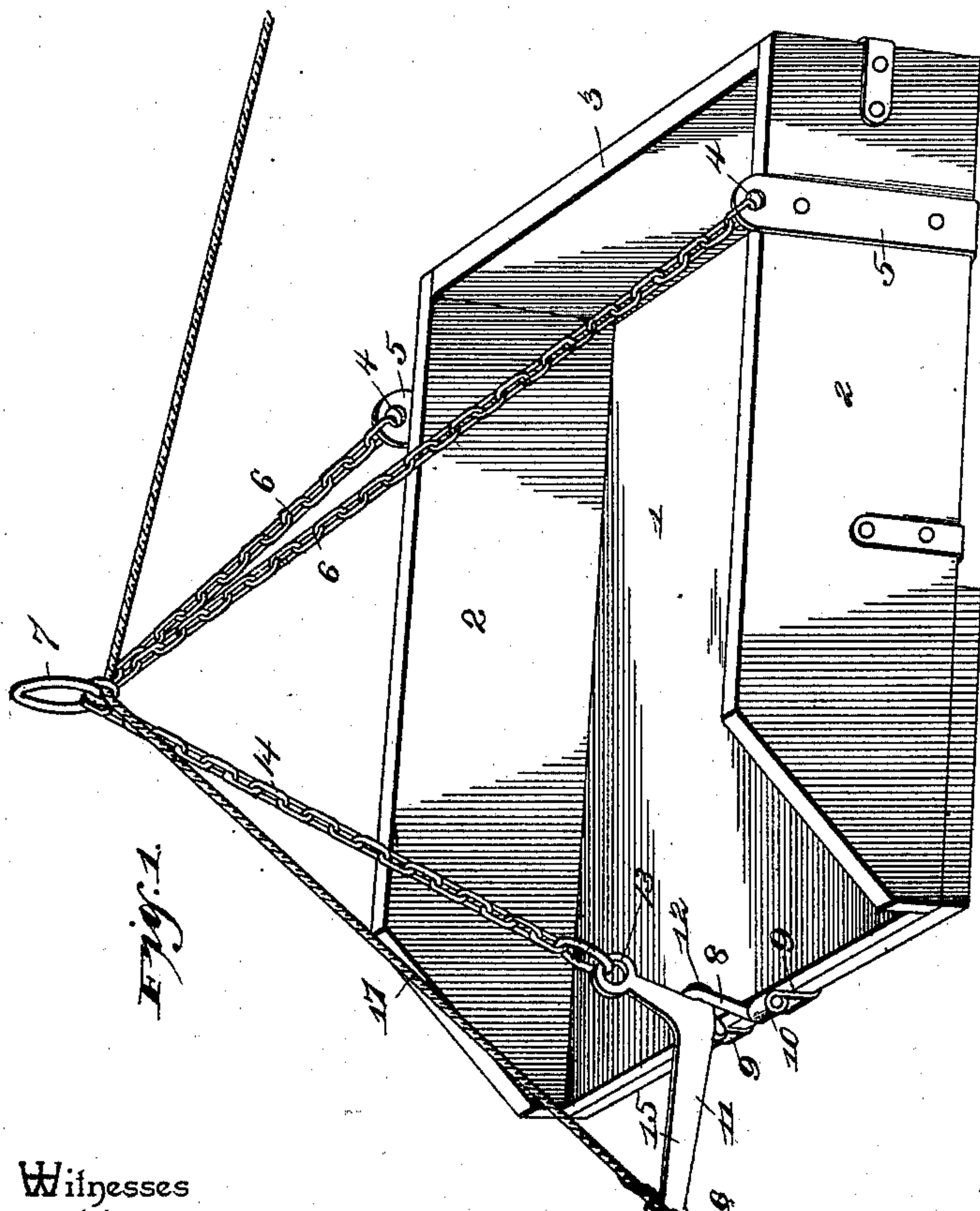


Fig. 1.

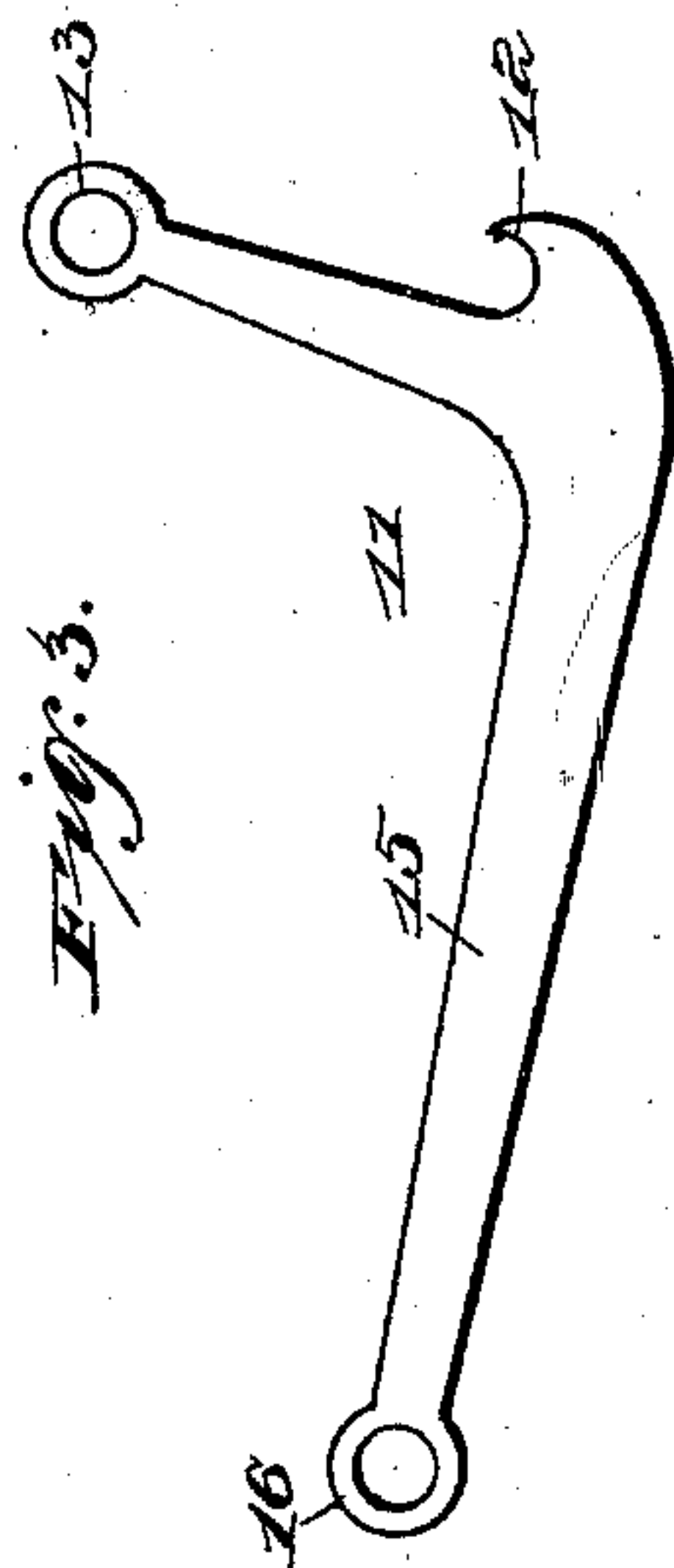


Fig. 3.

Inventor

Witnesses
W. T. Doyle.
R. M. Smith

By *Chas. H. Smith* Attorneys.

Joseph H. Smith.

Chas. H. Smith

UNITED STATES PATENT OFFICE.

JOSEPH H. SMITH, OF PLYMOUTH, OHIO, ASSIGNOR OF ONE-HALF TO
LEANDER M. PAINE, OF SAME PLACE.

HOISTING-BUCKET.

SPECIFICATION forming part of Letters Patent No. 549,116, dated May 28, 1895.

Application filed February 9, 1895. Serial No. 537,815. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. SMITH, a citizen of the United States, residing at Plymouth, in the county of Richland and State of Ohio, have invented a new and useful Hoisting-Bucket, of which the following is a specification.

My invention relates to an improvement in hoisting buckets, especially designed for use in stone quarries, where articles of this description are subjected to very hard and rough usage on account of the great weight of material required to be lifted by them, at one time.

The object of my invention is to make a bucket, which shall combine the greatest possible strength and, at the same time, be exceedingly simple in construction, with but few parts, thus rendering the same easy to manipulate, not liable to get out of order, and durable in practice.

My invention consists in providing a hoisting bucket with a series of suspending chains, one of which is connected with a suitable latch or floating lever, having a hook projection to engage an eye on the bucket, at the delivery end thereof, and a cord or cable connected with said floating lever for releasing said latch and dumping the bucket.

In the accompanying drawings, Figure 1 is a perspective view of my improved hoisting-bucket in position to receive its load. Fig. 2 is a similar view illustrating the manner in which the bucket is dumped. Fig. 3 is a side elevation of the latch or floating lever for upholding the delivery end of the bucket.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 indicates a bucket of any usual or preferred construction, having the usual flanged sides 2, and end bar 3. The forward or delivery end of the bucket is left open, as indicated and provided with a tapering mouth as shown.

4, 4, indicate eyes or perforations in the opposite ends of a piece of strap iron 5, extending across the bottom of the bucket and upwardly on the sides thereof. The strap iron 5, is riveted or otherwise secured to the bucket

and serves to add greatly to the strength and durability of the same. Chains 6, 6, connect with the eyes 4, just described, and extend upwardly, and converge toward a common central ring or support 7, being united thereto.

8 indicates a pivoted loop or ring secured to the delivery end of the bucket, and having a pivot connection therewith.

9, 9, indicate straps secured to the lower face of the bucket, and having eyes formed in their outer ends, as shown at 10, for the reception of the ends of the loop 8, which is thereby adapted to rock freely, for the purpose of engaging a latch lever, which will now be described.

11 indicates a floating lever or latch, substantially in the form of an elbow lever. At or near the elbow of the lever 11, is a hook or latch finger 12, adapted to engage the swinging-loop, secured to the delivery end of the bucket. The inner or short arm of this floating lever is provided with an eye 13, from which a chain 14, extends upwardly toward, and connects with, the central ring or support 7. The other, longer arm 15, of the lever 11, is provided at its outer end with an eye 16, adapted to receive the end of a cord 17, for operating said lever. The cord 17, is carried upwardly and passed through the central ring or support 7, or through a separate ring, pendant from said central ring, or support, and thence to the point from which it is desired to operate the tray, for dumping it.

It will be apparent from the foregoing description that the forward chain 14, assists in upholding the bucket and its load, and that the hook 12, cannot disengage itself from the loop or eye 8, except when the arm 15, is rocked upward by pulling on the cord, when said hook is caused to release the loop 8, and the delivery end of the bucket is allowed to fall, for the purpose of dumping the contents thereof.

Having described my invention, I claim—

In a hoisting bucket, the combination with the body of the bucket, having a series of supporting chains connected therewith and united to a common ring or central support, of an elbow lever or latch comprising two arms each provided with an eye, a supporting chain

connected with one of said arms, a release cord
or cable secured to the other arm, and a hook
located adjacent to the elbow of said latch
lever and formed integrally therewith for en-
5 gaging a loop or eye at the delivery end of the
bucket, all arranged and adapted to operate
in the manner specified.

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

JOSEPH H. SMITH.

Witnesses:

S. E. SIMMONS,
WM. SEYDEL.