G. E. COOK.

HOISTING BUCKET.

APPLICATION FILED FEB. 14, 1912. RENEWED MAY 14, 1915.

1,166,400. Patented Dec. 28, 1915.

Fig. 1.

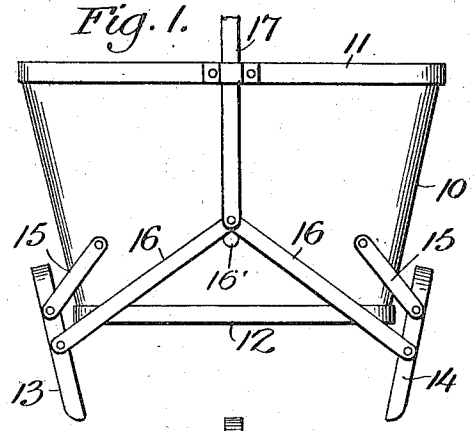


Fig. 2.

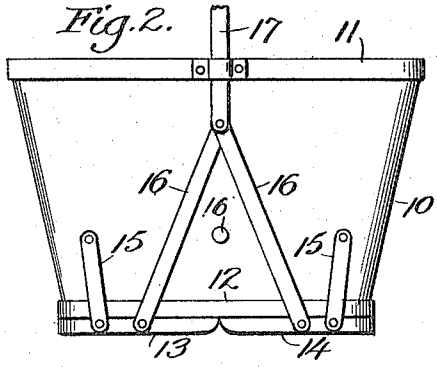


Fig. 3.

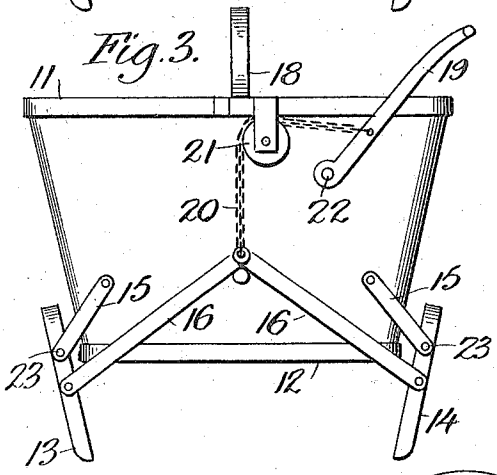


Fig. 4.

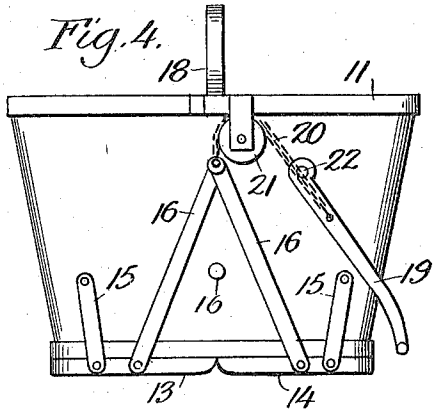
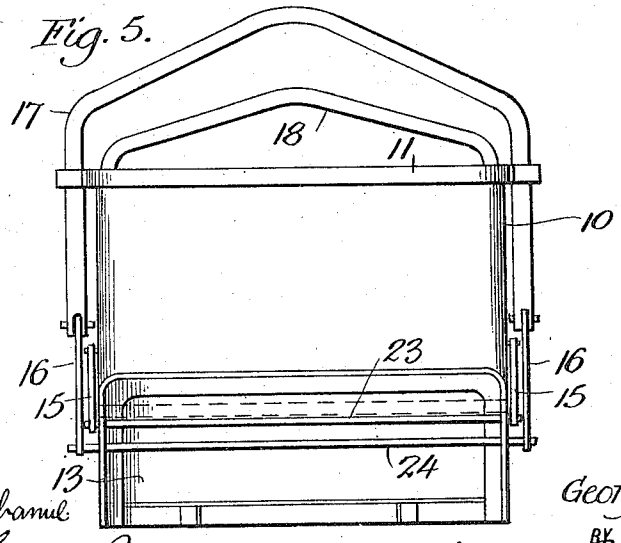


Fig. 5.



WITNESSES

James T. Dubanie

Fred. Ackman Jr.

INVENTOR

George E. Cook

BY

Victor J. Evans ATTORNEY

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE E. COOK, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, TO UNION IRON WORKS, OF HOBOKEN, NEW JERSEY, A CORPORATION OF NEW JERSEY.

HOISTING-BUCKET.

1,166,400. Specification of Letters Patent. Patented Dec. 28, 1915.

Application filed February 14, 1912, Serial No. 677,411. Renewed May 14, 1915. Serial No. 28,206.

To all whom it may concern:

Be it known that I, GEORGE E. COOK, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Hoisting-Buckets, of which the following is a specification.

This invention relates to hoisting buckets and its object is to provide a bucket having doors at the bottom which may be opened for the dumping of the bucket without being hinged so that the parts will not rust and clog and the work delayed and hampered as will be more fully described in the following specification, set forth in the claim and illustrated in the drawings, wherein,

Figure 1 is a side elevation of the bucket with the bottom opened. Fig. 2 is a similar view with the bottom closed. Fig. 3 shows a modified form of the bucket showing means for the closing of the bucket by hand. Fig. 4 shows the same closed. Fig. 5 is an end view of Fig. 1.

The bucket 10 may be of ordinary construction and have a flange 11 at its upper end and a similar reinforcing means 12 at its lower end. The bottom of this bucket is not hinged, but is divided into sections, 13 and 14, attached to the bucket by means of links 15, so that they may swing aside as shown in Fig. 1.

When the bucket is loaded and is being hoisted, the doors 13 and 14 at the bottom are closed by means of links 16 attached to a bail 17 upon which the strain is put and as long as the bail 17 supports the weight of the bucket, the doors are closed, but when the strain is released, the bail 18 still carrying the bucket, the bail 17 is freed to move downward, lowering the link 16 so as to permit the doors 13 and 14 to open.

As will be seen in Figs. 3 and 4, the bail 18 only is used for the handling of the bucket, and to open the doors 13 and 14, a lever 19 may be employed and is connected with the links 16 by means of a chain 20, or otherwise passing over the pulley 21. When the doors are closed as shown in Fig. 4, the lever and its connection are passed beyond the centers of the pulley 21 and the pivot 22 so that the doors are locked in place, but by removing the lever a short distance, the doors are released and permitted to open. A stop 16′ is mounted upon the bucket in the path of movement of the upper portions of the links 16 as clearly shown in the drawing.

This bucket is built of sheet metal with reinforced edges and the connections are made by means of rods 23 and 24, passing beneath the doors and affording pivots or journals for the links. In this construction the usual hinges are done away with and as the doors clear the bottom of the bucket, the contents are free to drop out without clogging the parts.

It is obvious that the parts may be otherwise arranged or modified without departing from the essential features above described.

What I claim as new and desire to secure by Letters Patent is,—

A bucket comprising a body, relatively short links pivoted to the sides of the body, bottom sections pivoted to the free ends of said links, relatively long links pivoted to the bottom sections and pivotally connected with each other at their upper ends, the points of pivotal connection between the short and long links and the bottom sections being at different distances from the edges of the said bottom sections, whereby the movement of the link swings the bottom sections from closed to opened positions and vice versa and the sections are held spaced from the body while in open position, and a stop mounted upon the body in the path of movement of the upper portions of the longer links.

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

GEORGE E. COOK.

Witnesses:

JAMES F. DUHAMEL,

THEO H. FRIEND, Jr.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."