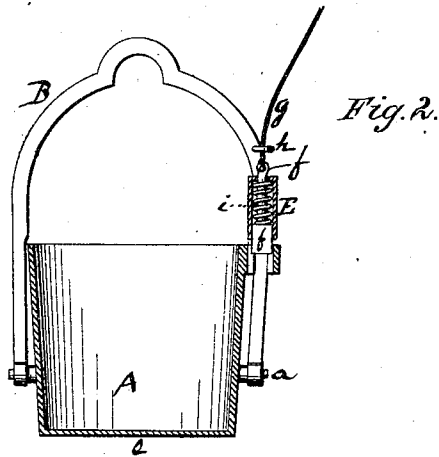
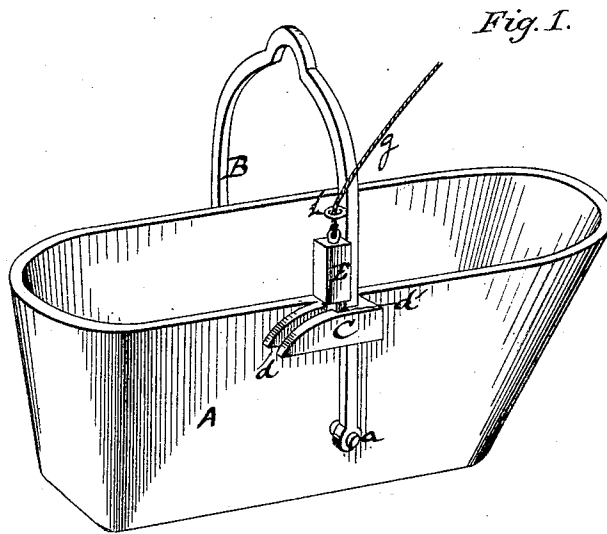


J. R. FITZHUGH.

TRIPPING BUCKETS FOR COAL ELEVATORS.

No. 181,516.

Patented Aug. 22, 1876.



Witnesses:

Clarence Poole
R. K. Eraw

Inventor:

Jacob R. Fitzhugh
by A. H. Evans & Co
Atty's

UNITED STATES PATENT OFFICE.

JACOB R. FITZHUGH, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN TRIPPING-BUCKETS FOR COAL-ELEVATORS.

Specification forming part of Letters Patent No. **181,516**, dated August 22, 1876; application filed August 14, 1876.

To all whom it may concern:

Be it known that I, JACOB R. FITZHUGH, of Philadelphia, Pennsylvania, have invented a new and Improved Tripping-Bucket for Coal-Elevators; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of the entire device; and Fig. 2 is a cross-section, showing the fastening device and construction of the sides.

My invention relates to those elevator-buckets used in elevating coal and like articles; and it consists in the automatic means of fastening the bucket to the bail when hoisting, and the means of releasing the bucket when it is desirable to dump it.

In order that those skilled in the art may make and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A is the bucket, having its sides flaring in all directions from the bottom *e*, so as to make it self-relieving. This body is pivoted to the bail B at *a a*, below its central line. To one of the sides is fastened a projection, C, having one end curved, as shown, and in said curved end a longitudinal slot, *d*, leading to a transverse slot, *d'*. Attached to

the bail, over projection C, is a housing, E, containing a catch-bolt, *f*, surrounded by a coiled spring, *i*, which keeps it depressed. Above the housing is an eye, *h*, through which passes a cord, *g*, attached to the spring-catch bolt *f*.

The construction of the sides prevents any jamming of the contents of the bucket, and makes it self-relieving when dumped. The bucket catches automatically when the bail is brought to a perpendicular, the curved end of the projection C forcing up the bolt *f* till it comes over the transverse slot *d'*.

I am aware that circular buckets have been heretofore made with their sides flaring in all directions from the bottom; hence, I do not claim flaring sides, broadly, but only in connection with an oblong bucket, as herein shown and described.

Having thus described my invention, what I claim as new is—

The projection C, having a curved end, a longitudinal slot, *d*, and a transverse slot, *d'*, and the housing E, spring *i*, and bolt *h*, in combination with the bucket A and the bail B, as set forth.

JACOB R. FITZHUGH.

Witnesses:

R. K. EVANS,

WILL H. MOXON.