

T. H. Rudiger,

Elevator.

No. 107,726.

Patented Sept. 27, 1870.

Fig. 1.

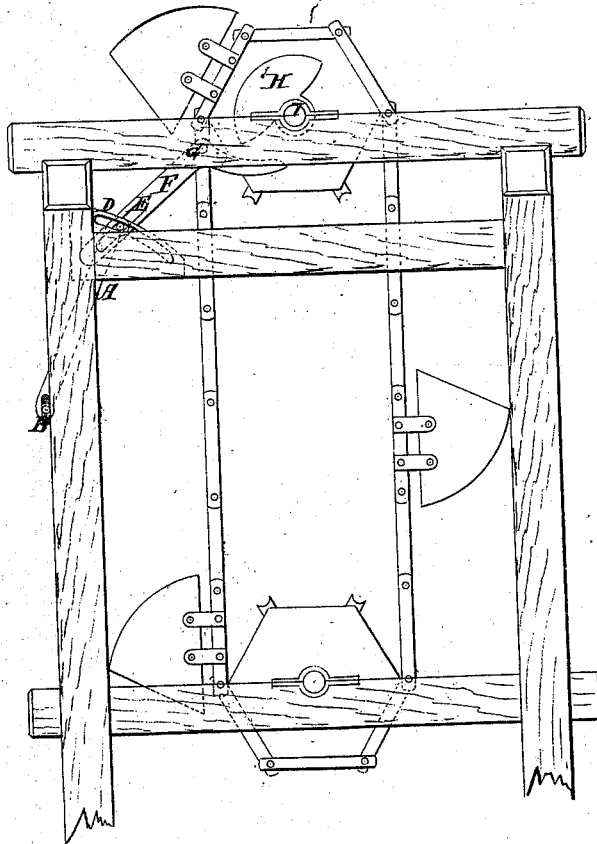
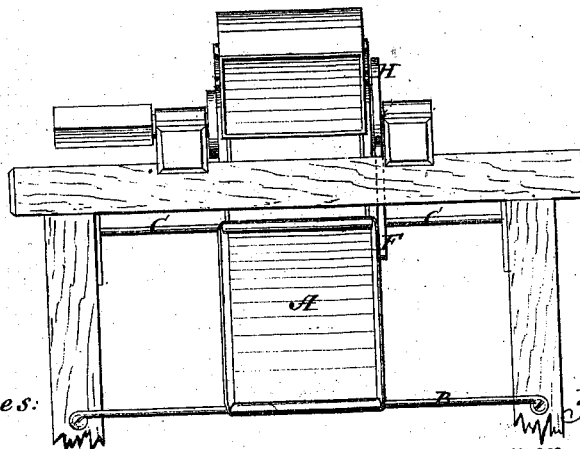


Fig. 2.



Witnesses:

E. Wolff
Alex. F. Roberts

Inventor:

T. H. Rudiger
per *Wm. M. L.*
Attorneys.

United States Patent Office.

THEODORE H. RUDIGER, OF LAWRENCE, KANSAS.

Letters Patent No. 107,726, dated September 27, 1870.

IMPROVEMENT IN ELEVATORS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THEODORE H. RUDIGER, of Lawrence, in the county of Douglas and State of Kansas, have invented a new and useful Improvement in Elevators; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in elevators, and consists in arranging the spout, onto which the articles elevated by the buckets are dumped, so that, previous to the dumping, the upper end will swing back under the bucket, so as to insure the receiving of all the contents of the bucket, and then swing out of the way of the downward movement of the bucket in time to let it pass without obstruction.

Figure 1 is a side elevation of my improved elevator, and

Figure 2 is a front elevation of the same.

Similar letters of reference indicate corresponding parts.

The spout or chute A is jointed at the lower end B, and the upper end is mounted on the bar or rod C, the ends of which are arranged in curved guides D.

This rod passes through the slot E of a lever, F, pivoted at G, and projecting at the upper end into the path of a cam, H, arranged on the shaft I of the upper elevator-drum.

The gravity of the spout A, rod C, and the lever F, causes the spout to fall back at the upper end under the buckets, so as to receive all the contents thereof, and the cam H is so arranged that just previous to the arrival of the bucket in the downward movement to the upper end of the spout, it will strike the upper end of the lever F and throw the spout up out of the way of the bucket.

In this case the buckets are so placed on the chain that one will pass over with each revolution of the cam, but it is evident that if more are applied, more cams may also be used to throw up the spout as often as a bucket passes.

This arrangement saves the great loss due to the falling back of a great part of the contents of the buckets when the spouts are arranged as in the common way.

Having thus described my invention,

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

1. The spout A, pivoted at its lower end to the frame, and connected at its upper end, with the slotted tilting-lever F, and slotted curved guides D, arranged to operate as and for the purpose specified.

2. The combination, with the drum-shaft I of the elevator, and with the swinging spout A of the cam H, lever F, and rod C, all substantially as specified.

THEODORE H. RUDIGER.

Witnesses:

J. M. HENDRY, Jr.,
J. R. GROTON.