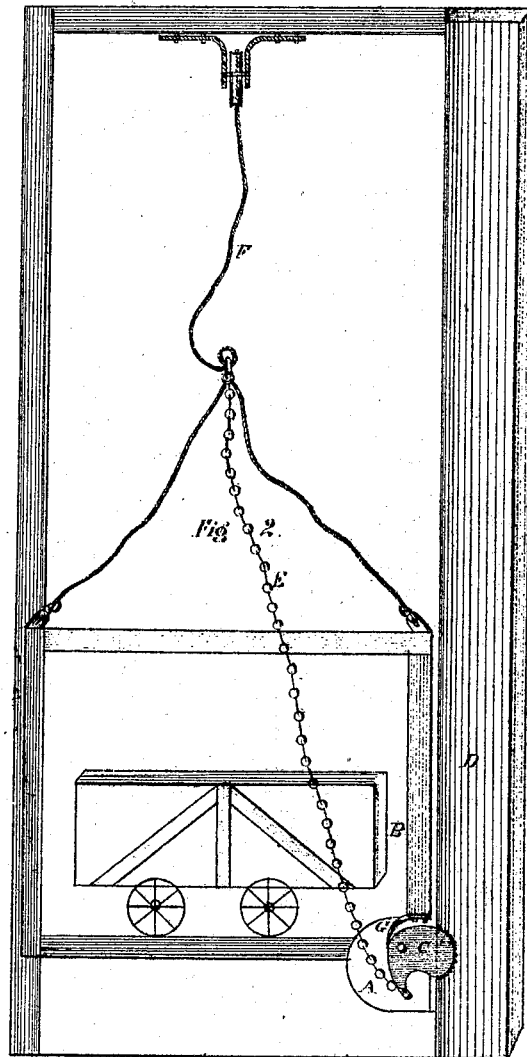
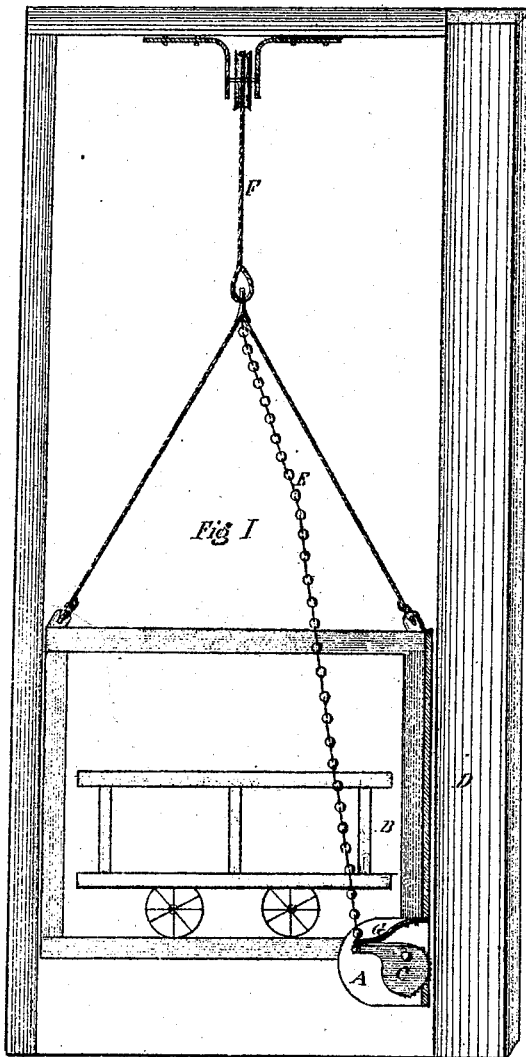


J.J. Weber's

111285

ELEVATOR.

PATENTED JAN 24 1871



Witnesses

John C. Howard
D. O. Thomas

Inventor.

John J. Weber

UNITED STATES PATENT OFFICE.

JOHN JACOB WEBER, OF ST. CLAIR, PENNSYLVANIA.

IMPROVEMENT IN ELEVATORS.

Specification forming part of Letters Patent No. **111,285**, dated January 24, 1871.

To all whom it may concern:

Be it known that I, JOHN JACOB WEBER, of St. Clair, in the county of Schuylkill and State of Pennsylvania, have invented a new and useful Improvement in Elevator; 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, in which—

Figure 1 is a side view of a portion of the shaft and elevator to which my improvement has been attached, showing position of device when not brought into requisition, but ready at any moment to hold the cage should the rope break. Fig. 2 is a view of the device holding the cage in the shaft, the rope being broken.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved device for attachment to an elevator to hold it securely at any place in the shaft to which it may have been raised. It consists in the elevator constructed as herein-after more fully described.

A is a semicircular case, which is let into the lower part of the side of the elevator B, where it is secured in place by screws. To the side plates of the case A is pivoted the cam or eccentric C, upon the curved edge of which are formed ratchet-teeth to take hold of the plank D to hold the elevator. The

other or straight edge of the eccentric C is made heavy, and projects a little beyond the curved part, as shown in Figs. 1 and 2. This weighty part of the cam C serves as a weight to bring the toothed edge in contact with the plank D should the rope break.

The toothed edge of the cam C is kept from the plank D, which extends up the whole shaft, by the chain E, which is fastened to the hoisting-rope F, which, so long as it is stretched, will raise the weighty part of the cam C and draw the teeth of the cam inside of the case A and hold them there, as shown in Fig. 1. As long as the rope F is stretched the cam C does not interfere with the free passage of the elevator up and down the shaft.

When the rope F breaks a strong spring, G, presses on the top of the cam C and makes it turn round far enough to bring the teeth in contact with the plank D, holding the elevator as shown in Fig. 2.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In the elevator, the semicircular case A, with the cam C, let into the side of the elevator B, the plank D, extending up and down the shaft, the spring G, combined, and as herein set forth.

JOHN JACOB WEBER.

Witnesses:

D. O. THOMAS,
G. E. WEBER.