

J. H. BLOHM.

Elevators.

No. 135,398.

Patented Feb. 4, 1873.

Fig. I.

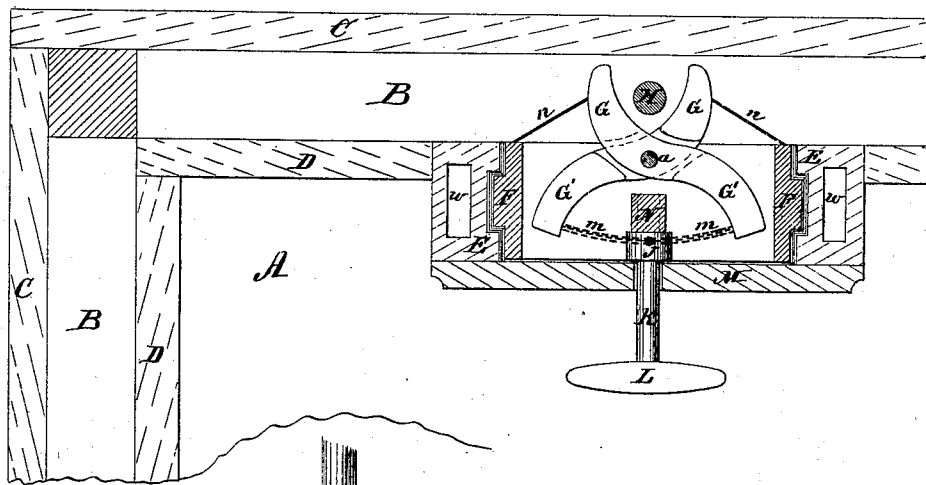


Fig. III.

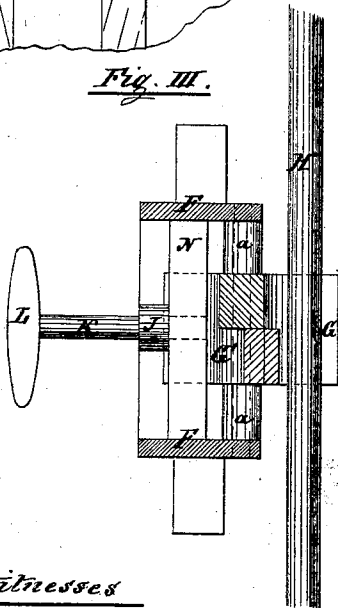
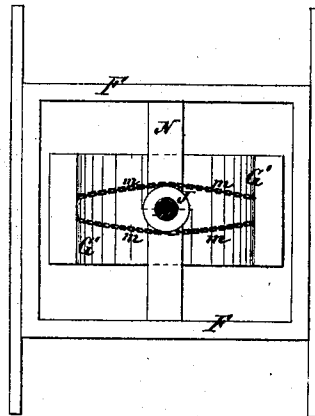


Fig. II.



Witnesses

Henry E. Rader
Chester Thornton

Inventor.

John H. Blohm.

UNITED STATES PATENT OFFICE.

JOHN H. BLOHM, OF NEW YORK, N. Y.

IMPROVEMENT IN ELEVATORS.

Specification forming part of Letters Patent No. 135,398, dated February 4, 1873.

To all whom it may concern:

Be it known that I, JOHN H. BLOHM, of New York, in the county and State of New York, have invented certain Improvements in Steam-Elevators, of which the following is a specification:

This invention consists in the arrangement of a sliding frame in the frame-work of the elevator, and provided with a clutch or pinchers, whereby the rope or rod, by which the engine which works the elevator is stopped, started ahead, or back, can be gripped whenever desired to operate the engine, as may be required.

By this arrangement this rope or rod, which at present passes through the central open space of the elevator where the passengers are, can be placed outside of the cabinet-work or even outside of the body of the elevator.

In the accompanying drawing, Figure I represents a horizontal section of a part of an elevator embodying my invention. Fig. II is a front elevation of the frame and pinchers or clutch. Fig. III is a vertical section of the same.

Similar letters represent similar parts.

A represents part of an elevator-room, where B is the frame-work of the same; C, the outside sheathing; and D the inner cabinet-work or paneling. E E are upright frames or posts running the whole length of the elevator-room and attached to the main frames B. Between these upright frames E a small frame or box, F, is arranged, working in suitable grooves or recesses in the frames E, and provided with suitable counterweights to balance this frame F, and all other parts attached to it. In the frames E openings or recesses *vv* are left, where the weights which balance the frame F and its other parts work in. To this frame F a clutch or pinchers, G G', are arranged, turning on a pin, *a*. The outer arms G of these pinchers are attached, by means of rubber or other springs *nn*, to the sides of the frame F, for the purpose of keeping the same open and away, clear of the rope or rod H, which passes between those outer arms through the main frame-work B of the elevator. The inner arms G' of the pinchers are connected, by means of ropes or chains *mm*, to a wheel, J, attached to a horizontal spindle, K, provided

with a handle, L, on its end, and projecting into the inner space of the elevator through the panel M.

When it is desired to operate the rope or rod H for the purpose of stopping the elevator, or to move the same either upward or downward, the spindle K is turned, whereby the chains *mm* are wound upon the wheel J when the pinchers are forced together, so that the forward or outer arms G will take hold of or gripe the rod H, through which, as before mentioned, the engine is operated, when said rod H may be worked in any desired direction. As soon as the spindle K is let loose again the action of the springs *nn* will open the pinchers, and the frame F with the pinchers and other parts attached can be easily moved back again in any desired position, being, as before mentioned, perfectly balanced. The panel M is provided with an elongated slot through which the spindle K works to allow of any required amount of motion of the frame F.

The rod H is here represented as passing outside of the paneling and through the main frame B, but it will be readily understood that the said rod may be arranged to pass on the outside of the elevator, when either the pinchers with their frame must be arranged further outward or must be made larger, so that the rod H comes within their outer arms, and can be gripped when the pinchers are closed.

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

1. The combination, with the rope or rod H which operates the engine, the clutch or pinchers G G' attached to a sliding frame, F, said pinchers being operated by suitable springs *nn* and ropes or chains *mm* attached to a wheel, J, fast to the spindle K, substantially as and for the purpose hereinbefore set forth.

2. The arrangement of the rope or rod H which operates the engine, outside of the inner paneling of the elevator, in combination with a clutch or pinchers, substantially in the manner and for the purpose described.

JOHN H. BLOHM.

Witnesses:

HENRY E. ROEDER,
CHESTER THORNTON.