

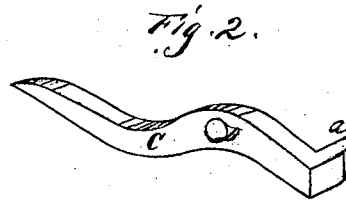
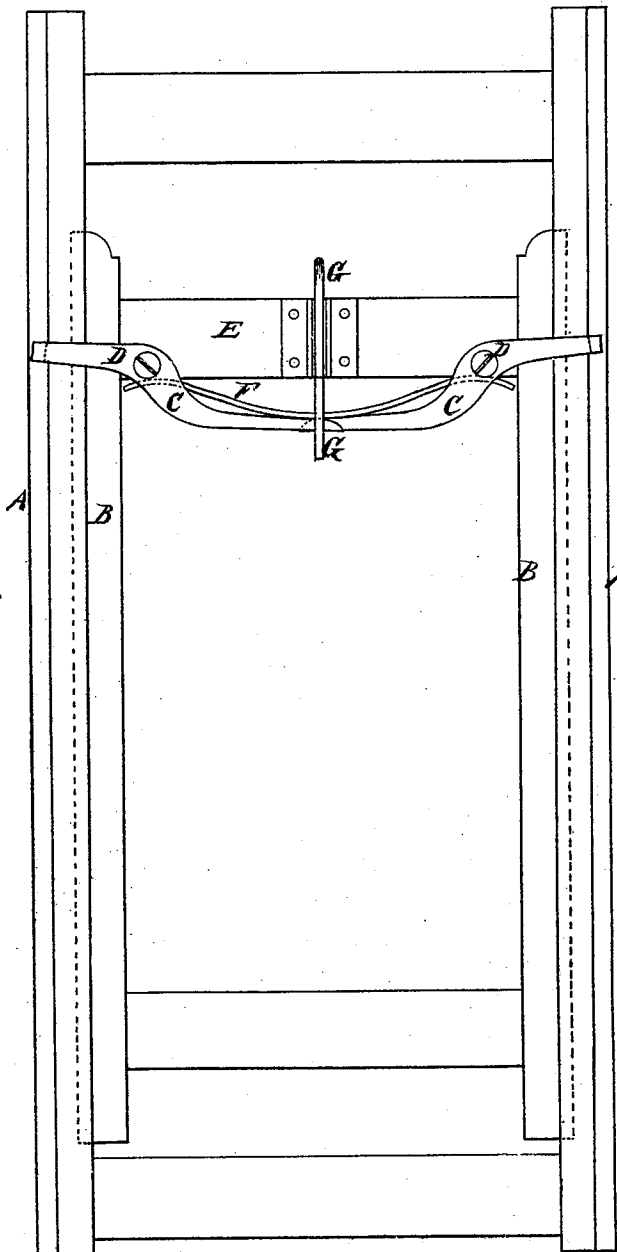
T. STEBINS.

Improvement in Safety Device for Elevators.

No. 132,112.

Fig. 1.

Patented Oct. 8, 1872.



Witnesses

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UNITED STATES PATENT OFFICE.

TIMOTHY STEBINS, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN SAFETY DEVICES FOR ELEVATORS.

Specification forming part of Letters Patent No. **132,112**, dated October 8, 1872.

To all whom it may concern:

Be it known that I, TIMOTHY STEBINS, of San Francisco city and county, State of California, have invented a Safety Device for Cages and Elevators; and I do hereby declare the following description and accompanying drawing are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention without further invention or experiment.

The object of my invention is to provide an improved safety attachment for elevators and for the cages used in hoisting works; and it consists in a novel arrangement of a grip, which shall compress or bind against the side frames upon the breaking of the rope and thus retain the elevator at that point, but which shall remain perfectly free at all other times.

Referring to the accompanying drawing for a more complete explanation of my invention, Figure 1 is a front elevation of my safety device, and Fig. 2 shows one of the levers.

A A are the side frames between which the elevator B moves and is guided. C C are two lever-arms pivoted at the points D to the frame B and having their outer ends bent around as at *a*, Fig. 2, so as to move outside the frames A. If preferred these ends may extend entirely around the frames A, or the levers C may be duplicated so that there will be one set upon each side. The inner ends of the

levers extend beyond the center, so that they both pass through the link G. The hoisting-rope is secured to the upper end of the link G, and when the weight of the elevator is sustained by the rope the link, which slides vertically, will be drawn close up to the cross-bar E, thus raising the inner ends of the levers C and depressing the outer ends, so that the lugs move freely and out of contact with the frames A. A stout spring, F, is secured to the cross-bar E, so that it acts directly on the inner ends of the arms C to force them down instantly if the rope breaks, and the lugs at the outer ends will thus be made to bind firmly against the frames A and thus arrest the cage or elevator and prevent its falling. If preferred, a spring for each arm or lever may be employed, and thus the safety is made doubly sure, as if one lever should fail to work the other is still operative.

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

The levers C C with their binding lugs *a*, together with the vertically-sliding link G and the operating-springs F, substantially as and for the purpose herein described.

In witness whereof I hereunto set my hand and seal.

TIMOTHY STEBINS. [L. S.]

Witnesses:

J. L. BOONE,

C. M. RICHARDSON.