(No Model.)

W. S. LAMSON.

ELEVATOR FOR CASH CARRIERS.

No. 310,832. Patented Jan. 13, 1885.

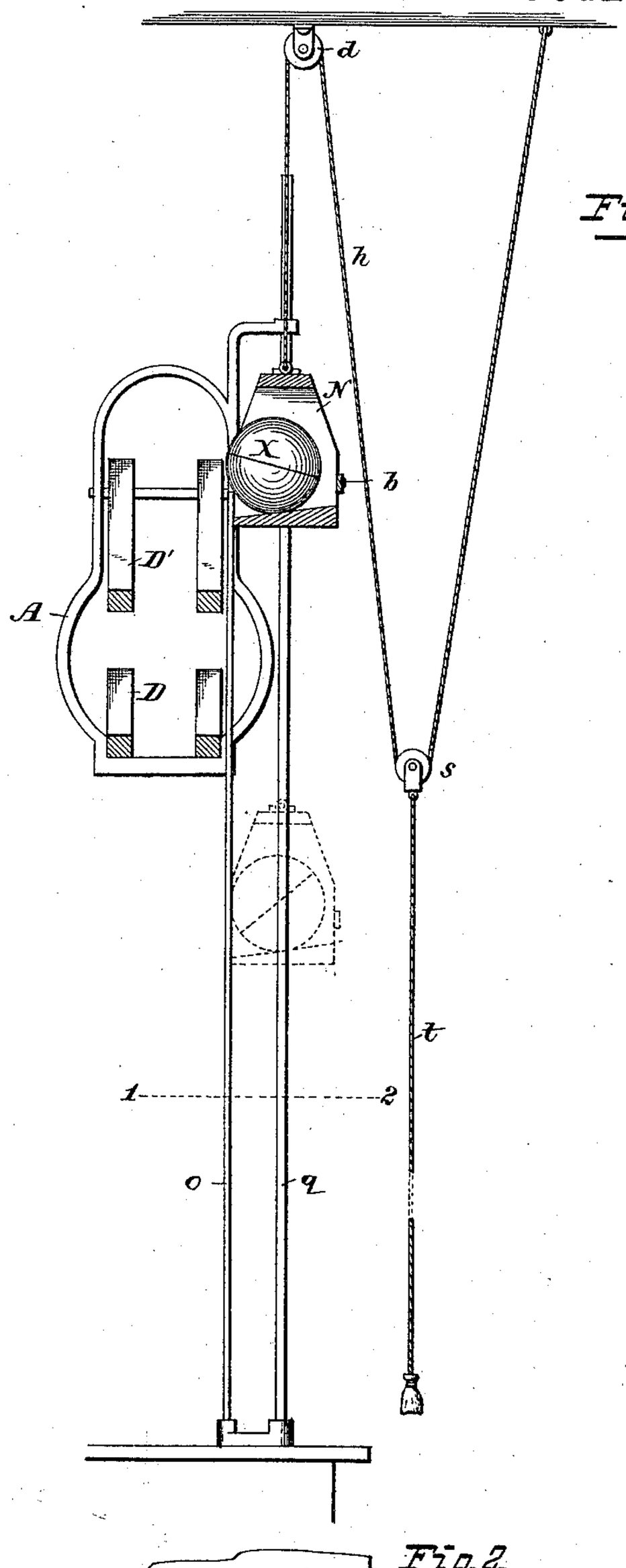

Fig. 1.

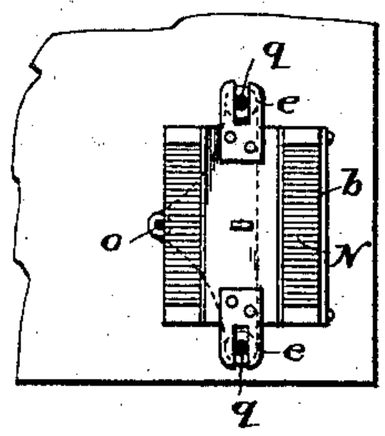

Fig. 2.

Attest:
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UNITED STATES PATENT OFFICE.

WILLIAM S. LAMSON, OF LOWELL, MASSACHUSETTS.

ELEVATOR FOR CASH-CARRIERS.

SPECIFICATION forming part of Letters Patent No. 310,832, dated January 13, 1885.

Application filed December 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. LAMSON, a citizen of the United States, residing at Lowell, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Elevators for Cash-Carriers, of which the following is a specification.

My invention relates to that class of store-service apparatus in which carriers for cash, parcels, &c., are elevated from the salesmen's counters and placed upon the suspended tracks; and my invention consists in constructing the elevating apparatus, as fully described hereinafter, so as to absolutely prevent the carriers from being thrown or escaping from the elevator, except when the latter is in position to direct them onto the track.

In the drawings, Figure 1 is a sectional elevation of sufficient of a store-service apparatus and elevator to illustrate my invention. Fig. 2 is a sectional plan on the line 1 2 of Fig. 1.

D represents one of the ways of a store-service apparatus, which is suspended by means of yokes A from any suitable support; and D′ represents what is usually termed a "tilting-bridge," the same being a counter-balanced track-section arranged above the track D, and normally in an elevated position, so as to permit spherical carriers to pass freely below the same, but tilting downward into contact with the track to guide a carrier onto the latter whenever such carrier is placed upon the bridge.

N is an elevator-box consisting of an open receptacle having at each side ears *e*, which slide upon guide-rods *q*, suitably supported, and extending from a position adjacent to one of the counters upward above the bridge, a cord fixed to a support at one end passing over a pulley, *d*, and secured to the elevator-box, carrying a pulley, *s*, connected to a pendent cord, *b*, and serving as a means of raising and lowering the said box. The elevator-box is adapted to receive the rolling carriers X, a flange, *b*, preventing the carrier from rolling out of the rear of the box; and in order to prevent it from escaping from the forward part of the box until it is in a position to pass onto the track I arrange a stationary rod or bar, *o*, in front of and between the bars *q*, and extending upward parallel to said bars as far as the bridge. When a carrier is placed in the box, it will rest upon the bottom of the latter, which is preferably inclined, as shown in the drawings, and will be held in place in the box until the bottom of the latter is above the top end of the rod *o*, when it will roll over the latter onto the bridge D′, which will descend under its weight and direct it onto the track D.

By the above-described combination of a retaining-rod with a vertically-moving elevator-box I am enabled to hold the carrier in the box without possibility of escape until the box is in proper position, however violently or suddenly the box may be moved, and the said retaining-rod further serves, in connection with the guides, to form a rigid structure, guiding and supporting the box, and insuring its proper movement in relation to the track.

It will of course be obvious that the box may be guided and supported in any other suitable manner, and that the carrier may be projected directly onto the track instead of upon the bridge, and that it may be projected positively from the box instead of rolling over the inclined bottom thereof. It will also be apparent that two or more retaining-rods, *o*, may be used in place of one. One, however, in most cases will effect the desired purpose.

Without limiting myself to the precise construction and arrangement of parts shown, I claim—

1. The combination, with a vertically-moving elevator for cash-carriers, and with the receiving-track, of a retaining-rod arranged in front of the path traveled by the elevator, and extending to the point where the carrier is to be delivered to the track, substantially as set forth.

2. The combination, with a track of a store-service apparatus, and with a vertically-guided elevator for the cash-carrier, of a rod arranged to retain the carriers in the elevator until the latter is in a position to deliver the same to the track, substantially as specified.

3. The combination, with the track of a store-service apparatus, of an elevator-box, parallel rods guiding and supporting the latter, and a retaining-rod arranged to hold the

carriers in the elevator until the latter is above the receiving-track, substantially as specified.

4. The combination of an elevator-box vertically guided, and provided with an inclined bottom, and a retaining-rod arranged to prevent the carriers from rolling out of the box, substantially as specified.

5. The combination of a vertically-guided elevator-box, track D, tilting bridge D′, and retaining-rod extending upward to said bridge, for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM S. LAMSON.

Witnesses:
CHAS. A. COX,
E. F. ENDICOTT.