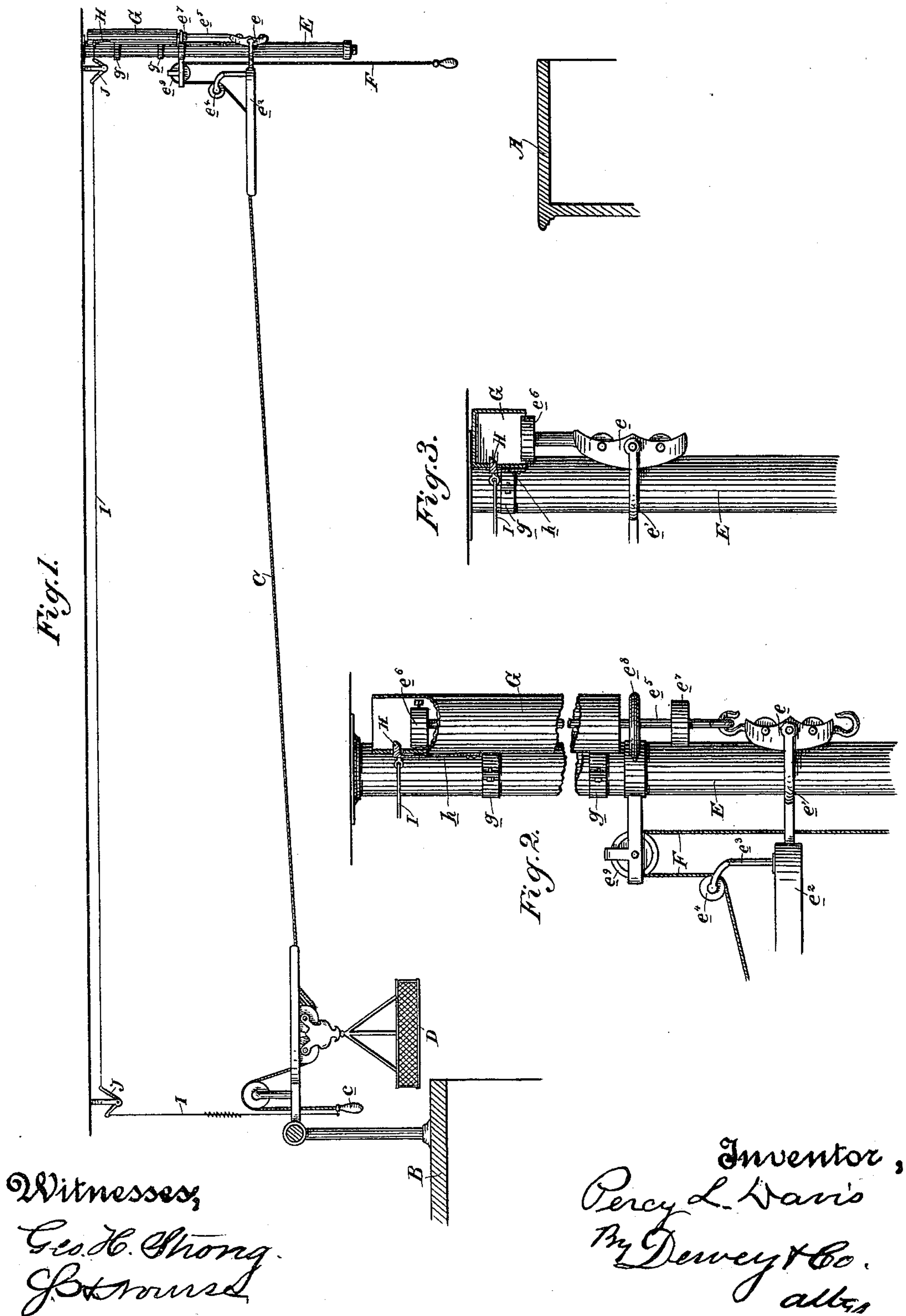


P. L. DAVIS.
STORE SERVICE APPARATUS.

Patented June 25, 1889.



UNITED STATES PATENT OFFICE.

PERCY L. DAVIS, OF SAN FRANCISCO, CALIFORNIA.

STORE-SERVICE APPARATUS.

SPECIFICATION forming part of Letters Patent No. 405,951, dated June 25, 1889.

Application filed February 23, 1889. Serial No. 300,923. (No model.)

To all whom it may concern:

Be it known that I, PERCY L. DAVIS, of the city and county of San Francisco, and State of California, have invented an Improvement in Store-Service Apparatus; and I hereby declare the following to be a full, clear, and exact specification thereof.

My invention relates to that class of store-service apparatus in which a number of track-lines proceed from the various sales-counters to the wrapping or packing desk or platform, which said track-lines are adapted to be moved to an inclination by the salesman at the counter, whereby the parcel carriage or basket is adapted to roll by gravity upon the track-lines from the sales-counter to the wrapping-platform and back again, according to the inclination of the said track-lines; and my invention consists in the constructions and combinations of devices which I shall hereinafter fully describe and claim.

Referring to the accompanying drawings for a more complete explanation, Figure 1 is an elevation of a store-service apparatus showing my improvement. Fig. 2 is a vertical elevation of my improvement. Fig. 3 is a modification to be hereinafter referred to.

A is the sales-counter, and B is the wrapping or packing platform.

C is a track-line extending between the two, and D is the traveling parcel carriage or basket suspended from and adapted to travel back and forth upon said track-line in the usual manner.

E is the supporting-rod depending from the ceiling. To this rod is fitted an anti-friction guide *e*, which is adapted to travel up and down upon the rod. This guide has a yoke *e'*, embracing the rod, and to the arm *e''* of this yoke is attached, by means of a suitable connection, one end of the track-line C. A second arm *e'''* of the yoke carries a guide-pulley *e''''*. From the anti-friction guide *e* extends upwardly a guide-spindle *e''''''*, which has upon its top a flange or collar *e''''''''* and below a collar *e''''''''''*. This spindle passes through suitable guide-eyes *e''''''''''''* upon the depending rod or support E. A lifting or elevating cord F is attached to the connections of the track-line C, and thence passes around the guide-pulley *e''''''* and over a guide-pulley *e''''''''*, fixed to a bracket

upon the support E, and down to within reach of the salesman. These parts are the ordinary parts of a store-service apparatus of this class, and their operation is as follows:

The salesman by pulling on the cord F raises the end of the track-line C; said end being guided in its vertical movement by the anti-friction guide *e* traveling up the support E until its collar *e''* comes in contact with the guide-eye *e''''* on the support E, which limits and defines the elevation of the track-line C. In descending the flange *e''''''* comes in contact with the guide-eye and limits the downward movement.

My improvement is as follows: G is a bracket or sleeve secured by clamps *g* on the upper portion of the support E. Into the upper portion of the bracket or sleeve G is let a beveled catch H, which is held inwardly to position by a spring *h*. The spindle *e''''''* of the anti-friction guide *e* extends into this bracket or sleeve, and when the parts are raised, as heretofore described, the collar or flange *e''''''* on top of said spindle comes in contact with the beveled catch H, and forcing it back passes it, so that said catch, when relieved, immediately springs in again under said collar or flange, thereby holding it and hanging up all the parts. The salesman may therefore release the pulling-up cord and turn his attention to other matters, the track-line C remaining elevated as long as the spring-controlled catch H remains in engagement with the collar or flange *e''''''* on the head of spindle *e''''''*. A releasing line or cord I is attached to the back of the spring-controlled catch H, and by means of suitable connections—such as the bell-crank levers J—leads off to the wrapping-platform, where it is connected with the handle end *c* of the track-line C, by which the operator at the wrapping-platform raises the carriage to the proper elevation to proceed on its return in the usual manner.

Now, as soon as the parcel is wrapped or the goods are packed at the wrapping-platform the operator pulls down on the handle *c*, which movement, at the same time that it throws the carriage into position for its return, acts through the line or cord I to withdraw the spring-controlled catch H from its engagement with the collar or flange on the

head of the spindle, whereby all the parts, being relieved, descend and reverse the inclination of the line, as heretofore described.

In some forms of this class of store-service apparatus the spindle-extension e^5 of the guide e is not present. Said spindle simply acts as a carrier for the limiting-stops. Now, as shown in Fig. 3, when the spindle is absent, I attach the flange or collar e^6 directly to the guide e , which is then raised high enough to cause said flange or collar to engage the catch H.

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

In a store-service apparatus, the movable track-line, the guide-connections of said line having a spindle with a collar or flange e^6 , and the elevating-cord for raising said connections

and line, in combination with the rod or support for the track-line connections and upon which they move up and down, the sleeve G, secured to said rod or support and in which the spindle, with its collar or flange, moves, the spring-controlled catch H in said sleeve, and adapted to engage and hold the collar or flange e^6 , so as to keep the track-line elevated, and a releasing cord or line connected with said catch for withdrawing it to allow the track-line to descend, substantially as described.

In witness whereof I have hereunto set my hand.

PERCY L. DAVIS.

Witnesses:

KIRK KINNEY,
J. H. BLOOD.