(No Model.)

C. GRANT, Jr.

CASH AND PARCEL CARRIER.

No. 293,241. Patented Feb. 12, 1884.

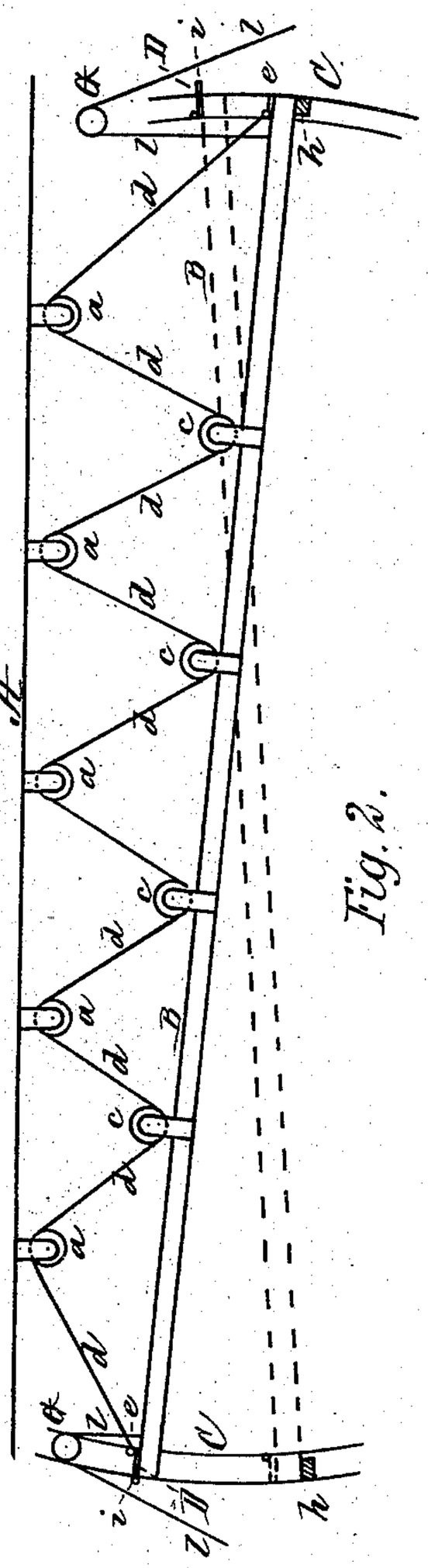

Fig. 1.

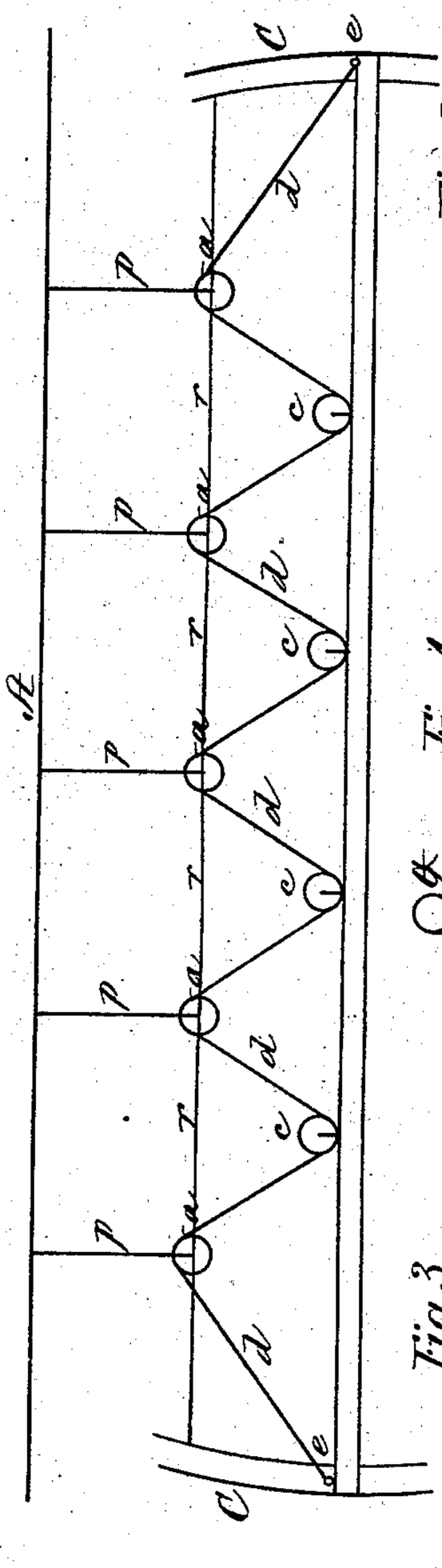

Fig. 2.

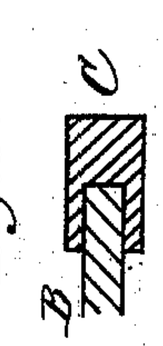

Fig. 5.

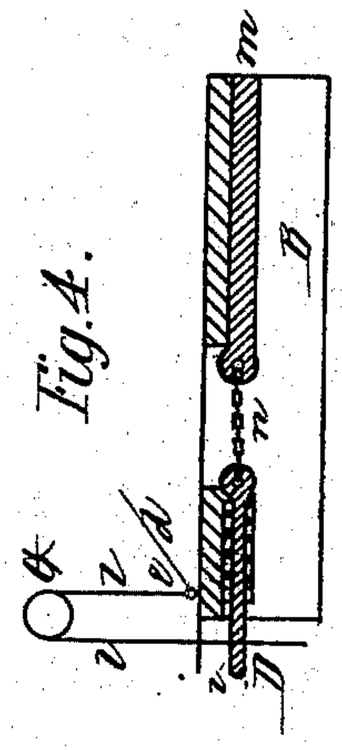

Fig. 4.

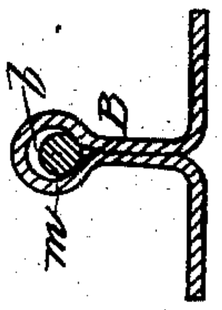

Fig. 3.

Witnesses:
George F. Lonig
Jas. W. Chapman

Inventor.
Charles Grant Jr.,
per Norman W. Stearns,
Atty.

UNITED STATES PATENT OFFICE.

CHARLES GRANT, JR., OF BOSTON, MASSACHUSETTS.

CASH AND PARCEL CARRIER.

SPECIFICATION forming part of Letters Patent No. 293,241, dated February 12, 1884.

Application filed January 7, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES GRANT, Jr., of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Cash and Parcel Carrier Systems, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 represents my invention applied to an apartment having a low ceiling; Fig. 2, the same applied to an apartment having a high ceiling. Fig. 3 is a transverse section of the track enlarged. Fig. 4 is a longitudinal section of one end of the track, with its locking and elevating devices. Fig. 5 is a horizontal section through the frame which guides the end of the track.

My present invention consists in a track of a cash and parcel railway supported by a flexible cord, wire, chain, or band rove through pulleys or guide-rolls arranged in two or more series, one above the other, said cord, wire, chain, or band being permanently secured to the ends of the track, and passing alternately over one of the upper pulleys and then under one of the lower pulleys, the upper pulleys being secured directly to the ceiling or to a series of vertical wires depending therefrom, or to a horizontal wire supported by said vertical wires, the lower pulleys being secured to the central portion of the track or to devices connected therewith, whereby my said track-support may be applied to apartments having high or low ceilings.

My invention also consists, in combination with an inverted-T or other suitable shape track having a central hollow or tubular portion, of a wire or cord extending longitudinally and loosely through the same, the ends of said wire or cord being connected with the locking and track-inclining devices.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In Fig. 1 of the said drawings, A represents the ceiling of a low studded apartment, to which are secured at equal distances apart a series of pulleys, *a*.

B is a track of inverted-T shape in cross-section, Fig. 3, provided with a central hollow or tubular portion, *b*, to the top of which are secured, at equal distances from each other, a series of similar pulleys, *c*.

d is a flexible wire, cord, chain, or band conducted over the pulleys *a* and under the pulleys *c*, and having its ends secured to the ends *e e* of the track, by which arrangement the supporting wire or cord *d* is free to run over the pulleys, and thus permit the track to be inclined, by means hereinafter to be described.

Outside of and in close proximity with the ends of the track are located the frames C C, each provided near its bottom with a stop, *h*, to limit the downward pitch of the track, each frame also being provided near its top with a recess, *i*, for the reception of the end of a locking-bolt, D, secured to the contiguous end of the track.

Projecting inwardly from the top of each frame C is a pulley, G, over which is led a cord, *l*, one end of which is secured to the looped contiguous end of a horizontal wire, *m*, which fits loosely in and extends longitudinally through the hollow or tubular central portion, *b*, of the track, the other end of the cord *l* being within reach of the salesman or cashier (as the case may be) located at this end of the track, Figs. 3 and 4. The locking-bolt D at each end of the track is connected by a short chain, *n*, with the contiguous end of the horizontally-sliding wire *m;* and the salesman or cashier at the lower end of the track may withdraw the bolt at the upper end of the track, when the carrier (not shown) is to be returned, by pulling down on the cord *l* at his end, a continuation of the pull causing the elevation of this end of the track, and the consequent descent of the carrier, as desired. The pulleys *a* of the upper series are located vertically above the centers of the spaces between the pulleys *c* when the track is horizontal. Where the ceiling is high, I prefer to secure the pulleys *a* of the upper series to vertical wires or rods *p*, extending down from the ceiling or to their junctions with a horizontal wire or rod, *r*, secured to their lower ends, in which case the horizontal wire or rod also performs the office of preventing the vibration of the track. (See Fig. 2.)

From the foregoing it will be seen that the

flexibility of the supporting cord, wire, chain, or band endows it with the ability to run with perfect freedom through the pulleys or guide-rolls, and thus admits of the ready inclination of the track in either direction, as desired. Each side frame, C, is grooved or channeled in order to guide and keep steady the end of the track. (See Fig. 5.)

I claim—

1. In combination, a flexible supporting wire, cord, band, or chain, *d*, two series of pulleys or guide-rolls, *a c*, arranged substantially as described, and a track, B, of a form in cross-section adapted thereto, for the purpose set forth.

2. An inverted-T-shaped track having a series of pulleys or guide-rolls secured thereto, a series of pulleys or guide-rolls secured to or depending from the ceiling of an apartment, a flexible supporting cord, wire, chain, or band, and suitable track-inclining and locking devices, combined and arranged as specified.

3. A track having a central hollow or tubular portion, *b*, and a horizontal wire, cord, or band, *m*, extending loosely through it, in combination with suitable locking and track-inclining devices, substantially as described.

Witness my hand this 2d day of January, 1884.

CHARLES GRANT, JR.

In presence of—

N. W. STEARNS,

JAS. W. CHAPMAN.