

(No Model.)

C. STARR & P. KRAZEISE.
PARCEL CARRIER.

No. 445,735.

Patented Feb. 3, 1891.

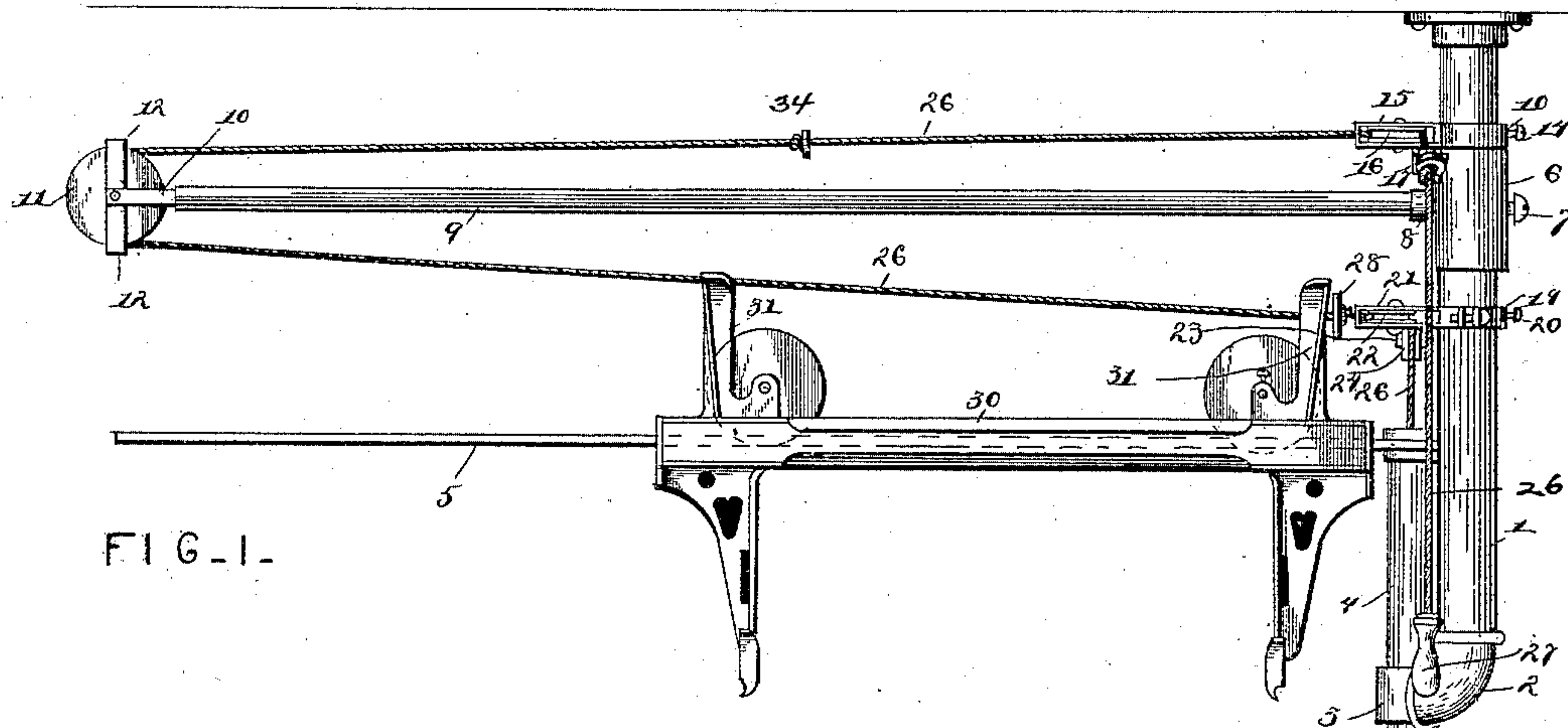


FIG. 1.

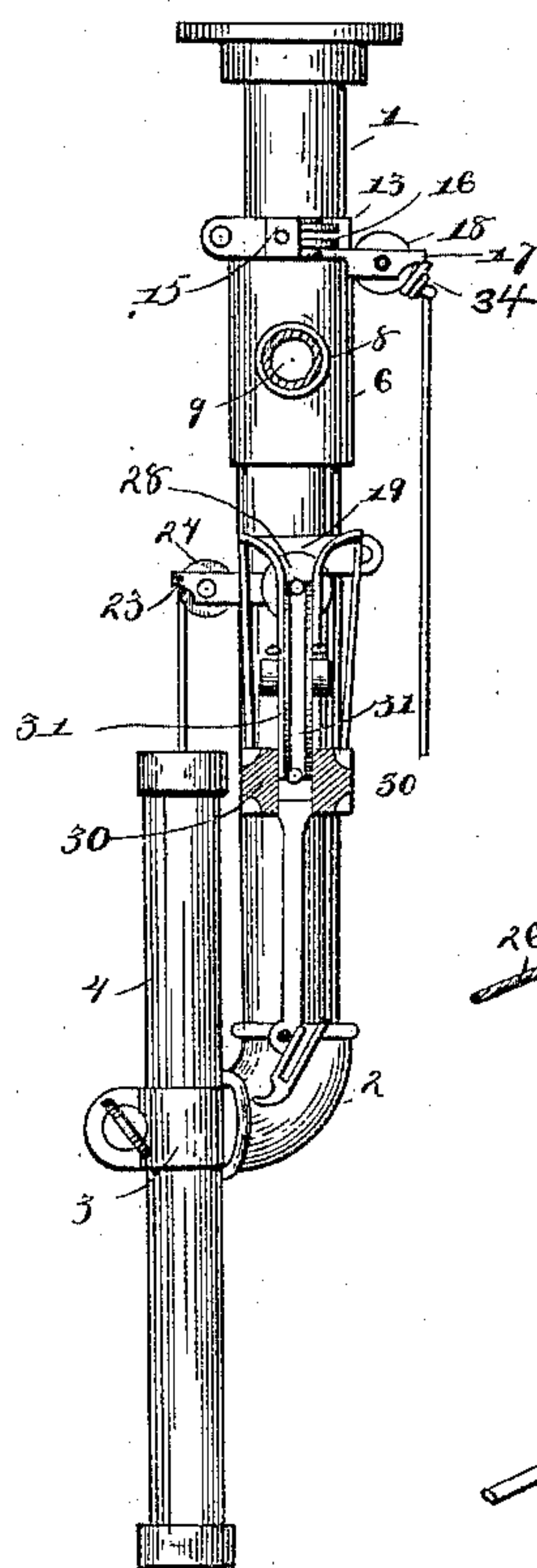


FIG. 2.

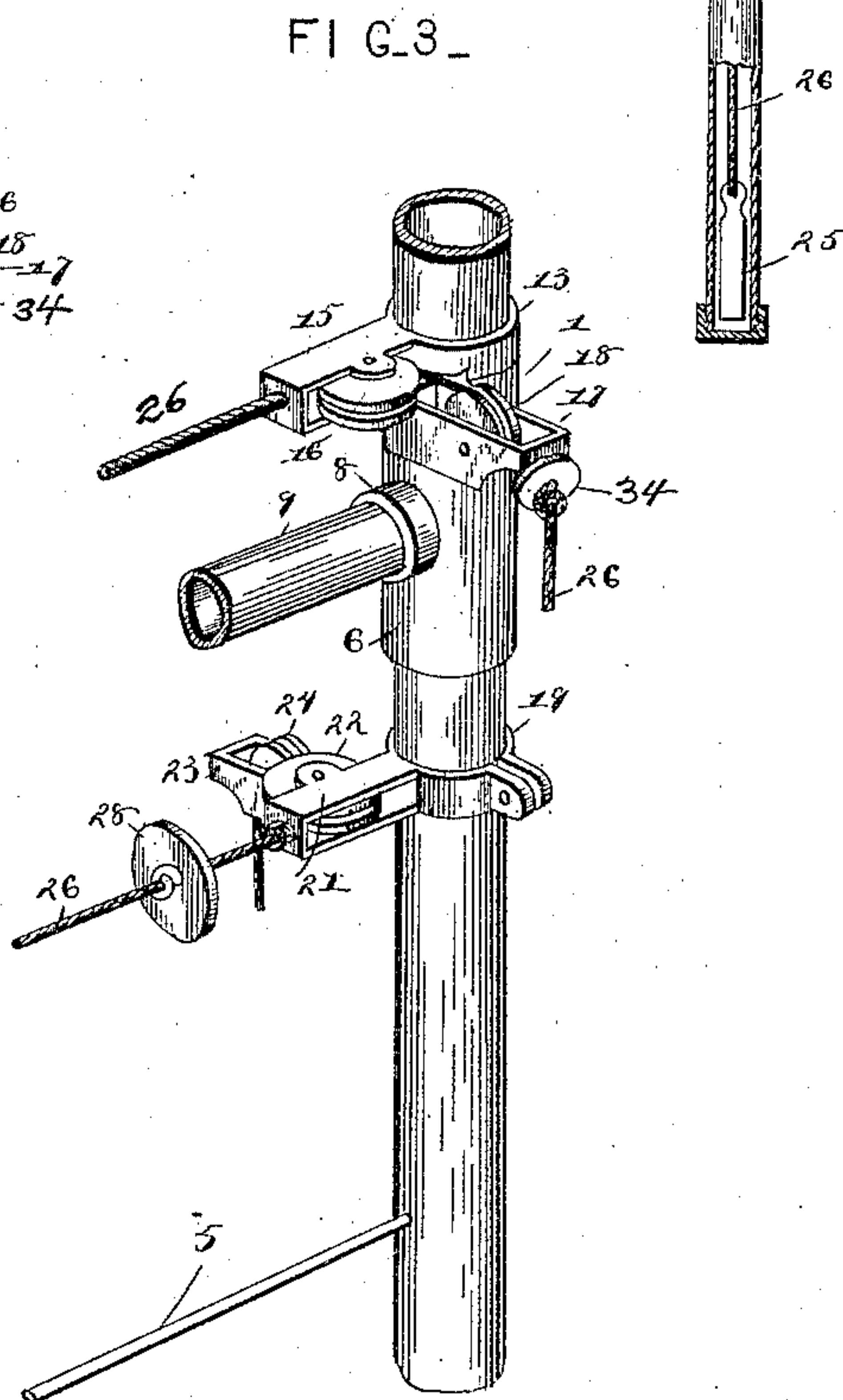


FIG. 3.

Witnesses:

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By their Attorneys,

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UNITED STATES PATENT OFFICE.

CHARLES STARR AND PAUL KRAZEISE, OF LOUISVILLE, KENTUCKY.

PARCEL-CARRIER.

SPECIFICATION forming part of Letters Patent No. 445,735, dated February 3, 1891.

Application filed September 26, 1890. Serial No. 366,272. (No model.)

To all whom it may concern:

Be it known that we, CHARLES STARR and PAUL KRAZEISE, citizens of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented a new and useful Parcel-Carrier, of which the following is a specification.

This invention has relation to improvements in parcel-carriers of that class employing what is commonly known as a "push-block" for imparting impulse to the carrier.

The objects of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claim.

Referring to the drawings, Figure 1 is a side elevation of one station of a store-service apparatus constructed in accordance with our invention. Fig. 2 is a transverse section in front of and looking toward the station-supporting standard or hanger. Fig. 3 is a perspective in detail of a portion of said hanger, the guide-pulleys and their supports being mounted thereon.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates the usual depending hanger secured to the ceiling or supported by the floor or counter, as may be most convenient, said hanger terminating at its lower end in an elbow 2, disposed at a right angle to the hanger, and having extending therefrom a clip or clamp 3, which embraces adjustably a depending hollow tube or pipe 4, that extends down below said elbow a suitable distance.

5 designates the track-wire which passes through the standard, and is secured by a suitable device to the wall or other fixed support. Above the track-wire a coupling 6 is adjustably mounted, by means of a bolt 7, upon the hanger 1, and said coupling is provided a horizontally-disposed branch 8, in which is threaded an overhanging arm 9, extending parallel with and over the track-wire 5. The end of the arm is provided with a bracket 10, in which is journaled a grooved pulley 11, embraced at its upper and lower sides by keepers 12. Above the overhanging arm 9 and encircling the hanger 1 is a collar 13, maintained in position upon the hanger by means of a binding-screw 14. Formed in-

tegral with the collar is a horizontally-disposed bearing-bracket 15, in which is journaled a grooved guide-pulley 16. A similar bracket 17 is also formed integral with said collar, but is disposed horizontally and at a right angle to the bracket 15 and carries a groove-pulley 18.

19 designates a collar similar to the collar 13, but which is mounted immediately below the overhanging arm upon the hanger 1, and said collar is provided with the binding-screw 20, whereby it is designed to be secured adjustably upon the hanger and with the forwardly-disposed bracket 21, having the grooved pulley 22, and the bracket 23, having the pulley 24 and disposed at a right angle to the bracket 21 and terminating directly over the upper end of the pipe 4.

In the pipe 4 is located a weight 25, designed to move vertically within the pipe, and having one end secured to the weight is a propelling-cord 26, which passes out through the upper end of the pipe, over the pulley 24, around the pulley 22 to the outer end of the station-arm, over the pulley 11, under the keepers 12, back over the overhanging arm, and through an opening in the bracket 15, around the pulley 16 of the bracket, thence over the pulley 18, and terminates in a hand-pull 27. The cord also carries a push block or disk 28, preferably formed of leather or other soft material, and maintained in position upon the cord by means of knots or other enlargements.

29 designates a car or carriage adapted to receive in this instance a parcel-carrying basket; but the same may be an ordinary cash-carrying car, if so desired, as such forms no part of our invention. In the present instance the car comprises the usual opposite side bars 30, connected at their front and rear ends, at which points are located opposite pairs of upwardly-disposed bearing-standards 31, in which are journaled the usual grooved rollers or wheels. Depending from the side bars are the usual slotted hangers adapted to receive the parcel-receiving basket.

The operation of our invention will be readily understood to those familiar with the working of cash-carrying apparatus, but may be briefly stated, as follows: By drawing upon the hand-pull the weight is elevated, the cord

running over the various pulleys, as will be understood, and the push block or disk coming against the rear end of the car imparts to the latter a sufficient impulse to send the
5 same along over the way to the opposite station. The push-block moves from the bracket 21 to the pulley 11, and after the car has been operated upon thereby, the hand-pull is released by the operator, and the weight in the
10 pipe serves to draw or retract the cord to its former position, the fall of the weight being limited by a stop 34, arranged upon the cord and coming in contact with the bracket 17, in which is formed an opening 35, through
15 which the cord 26 passes.

From the above construction it will be apparent that we provide for an automatic return of the propelling-cord, or, in other words, a resetting of the propelling devices, without
20 the use of a spring, thus avoiding liability of breakage of the spring or its ineffective operation, its noise in rewinding, and also are enabled to employ a continuous cord of suitable strength.

25 Having described our invention, what we claim is—

A store-service apparatus comprising a depending hanger, a clamp extending from the same, a pipe adjustably mounted in the clamp
30 and depending below the hanger, an over-

hanging supporting-arm projecting from the hanger, a track, a pulley having keepers located at the outer end of said arm, a clamping-collar mounted above the arm upon the
hanger and having a forwardly-disposed 35 bracket carrying a grooved roller, said collar being also provided with a laterally-disposed bracket carrying a roller and disposed at a right angle to the companion roller, a second
40 collar arranged below the station-arm and clamping the hanger, and having a pair of brackets arranged at a right angle to each other, one being disposed parallel with the track and the other terminating over the said
45 pipe, rollers mounted in said brackets, a cord passing through the aforesaid guide-rollers, connected at one end to the weight mounted in the pipe and terminating at its opposite
end in a hand-pull, a push-block mounted on the cord under the arm, and a stop mounted 50 upon the cord over the arm, substantially as specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

CHARLES STARR.
PAUL KRAZEISE.

Witnesses:

GEORGE UHL,
WM. POHLMANN.