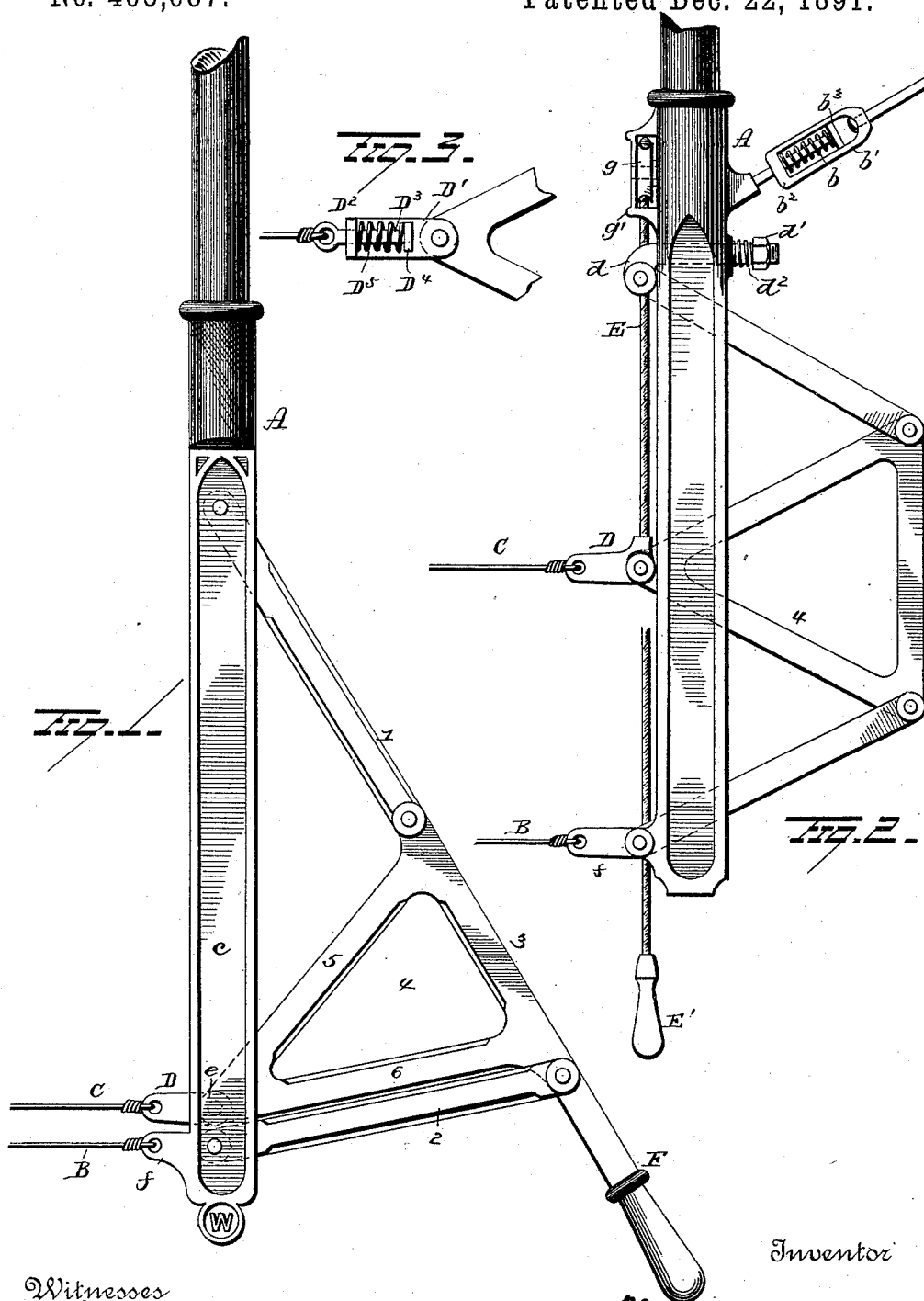


(No Model.)

H. M. WEAVER.
CASH AND PACKAGE CARRIER.

No. 465,687.

Patented Dec. 22, 1891.



Witnesses
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HENRY M. WEAVER, OF MANSFIELD, OHIO, ASSIGNOR TO THE BARR CASH AND PACKAGE CARRIER COMPANY, OF SAME PLACE.

CASH AND PACKAGE CARRIER.

SPECIFICATION forming part of Letters Patent No. 465,687, dated December 22, 1891.

Application filed April 13, 1891. Serial No. 388,654. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. WEAVER, a citizen of the United States, residing at Mansfield, in the county of Richland and State of Ohio, have invented certain new and useful Improvements in Cash and Package Carriers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in cash and package carriers, and more particularly to that class in which the car is propelled by means of spreading the wires on which it is located. Much difficulty is met with in this class of devices in keeping the movable wire taut and at the same time allowing it to move in "spreading" the wires with little friction on the bearings or trackway which subtends it.

It is the object of my present invention to overcome these defects and to so construct the devices for spreading the wires that the movable wire will be kept taut and at the same time allow it to move in spreading with but little friction on the bearings or trackway which subtends it.

With this object in view the invention consists in the combination, with a hanger or bracket and a permanent wire secured thereto, of a frame, rods or bars pivotally connected at one end to said frame and at their other ends to the bracket or hanger, a movable wire attached to said frame by a loose connection, and means for operating said pivoted frame to raise the movable wire.

The invention also consists in the combination, with a hanger or bracket and a permanent wire secured thereto, of a frame, rods or bars pivotally connected at one end to the frame and at their other ends to a bracket or hanger, an arm pivoted to said frame, a movable wire connected to said arm, and means for operating said frame to raise the movable wire.

The invention also consists in the combination, with a bracket or hanger and a per-

manent or fixed wire secured thereto, of a triangular frame, arms or rods pivotally connected at one end to the larger end of said frame and at their other ends to the bracket or hanger, an arm pivotally connected to the apex of said triangular frame, a wire secured to said pivoted arm, and means for operating said frame to raise the movable wire; and the invention also consists in certain novel features of construction and combination and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view illustrating my improvements. Fig. 2 is a view of a modification. Fig. 3 illustrates one form of a yielding attachment for the movable track-wire.

A represents a bracket or hanger, which may be supported in any suitable manner. The lower portion of the hanger A is preferably made in the form of an open frame *c*, in the ends of which arms or rods 1 2 are pivotally connected. The arms 1 2 are of equal lengths and are pivotally connected at their outer ends to the respective ends of an arm 3, which arm constitutes one side of a triangular frame 4, the other side of said frame being composed of two arms 5 6, which project into or through the frame *c* of the bracket or hanger A and produce the apex *e* of the triangular frame. I have found in practice that the best results are obtained by making the arms 1 2 and the arms 5 6 of the frame 4 of equal lengths, while the arm 3 should be slightly shorter, although these dimensions need not in strictness be adhered to. These parts designated by numerals constitute a jointed device, they being pivotally connected and operated together. The permanent or fixed wire or track B is secured to an ear *f*, projecting from the lower end of the frame *c* of the hanger A, and the movable wire C is secured to an arm D, pivotally connected to the apex of the triangular frame 4. Projecting from the frame 4 at the point where the arm connects thereto is a handle F, by means of which to operate said frame to raise the movable wire; or, if desired, the handle

may be made to project from the frame at the point where the arm 1 connects thereto, or at a point between the ends of the arm 3 of the frame 4, or at any suitable point. In lieu of the means just described for operating the triangular frame it is obvious that various other devices may be employed, the pith of the invention being the practically "straight-line" motion of the part to which the movable wire is attached. For instance, the means for operating the triangular frame shown in Fig. 2 may be employed, in which arrangement a pulley *g* is mounted in a suitable bracket *g'*, secured to the hanger A, and over this pulley a pull-cord E is passed, one end of said pull-cord being secured to the pivoted arm D and the other end allowed to project downwardly within easy reach of an operator, where it is provided with a handle E'. From this construction it will be seen that by pulling the cord E the apex of the triangular frame 4 will be raised and mark very nearly a straight line and that the power required will be reduced to a minimum. To allow for a slight inward pull of the wire C as it describes an arc in rising a yielding attachment or easement will preferably be provided. This yielding attachment or easement may be constructed in various ways. For instance, springs *b* may be interposed in the guy-wires, as shown in Fig. 2. This may be readily accomplished by dividing the guy-wire and securing the end of one part to a yoke *b'* and passing the other part of the guy-wire through a perforation in the cross-bar *b²* of said yoke, the spring *b* being made to encircle the last-mentioned part of the guy-wire and adapted to bear at one end on a nut *b³* thereon and at the other end on the cross-bar *b²* of the yoke *b'*. The same effect may be produced by pivotally connecting the upper end of the arm 1 to a horizontal bar *d*, adapted to have a sliding movement in the hanger A, said bar being provided at its free end with a nut *d'* and a spring *d²* made to encircle said bar, bearing at one end against said nut and at the other end against the hanger A; and, again, this easement may be constructed as shown in Fig. 3, in which case the pivoted arm D will be displaced by a yoke D', the cross-bar D² of which is perforated for the reception of a sliding rod D³. The inner end of the rod D³, which projects into the yoke D', is provided with a nut D⁴, while the other end of said rod will be provided with a loop for the attachment thereto of the movable wire C. A spring D⁵ is made to encircle the rod D³, being adapted to bear at one end against the nut D⁴ and at the other end against the cross-bar D². It is evident that all of these need not be employed, as any one of them will be sufficient.

Slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope. Hence I do not wish to limit my-

self to the precise details of construction herein set forth.

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

1. The combination, with a support or hanger and a stationary track-wire connected thereto, of a movable track-wire, and a jointed device connected to the support or hanger at two points and connected with the movable track-wire, substantially as set forth.

2. The combination, with a hanger and a permanent or fixed wire secured thereto, of a frame, rods or arms pivotally connected at one end to said hanger and at their other ends to said frame, a movable wire attached to said frame, and means for operating said frame to raise the movable wire, substantially as set forth.

3. The combination, with a hanger and a permanent or fixed wire or track secured thereto, of a triangular frame, arms or rods pivotally connected at one end to the larger end of said triangular frame and at their other ends to the hanger, a movable wire connected with the apex of said triangular frame, and means for operating the frame to raise the movable wire, substantially as set forth.

4. The combination, with a hanger and a permanent or fixed wire secured thereto, of a frame, rods or arms pivotally connected at one end to the frame and at their other ends to the hanger, arm D, pivoted to said frame, a movable wire connected to said arm, and means for operating said frame to raise the movable wire, substantially as set forth.

5. The combination, with a hanger and a permanent or fixed wire secured thereto, of a frame, rods or arms pivotally connected at one end to said hanger and at their other ends to the frame, a movable wire connected to said frame, and a handle connected to said frame, whereby to operate it to raise the movable wire in a practically straight line, substantially as set forth.

6. The combination, with a hanger and a permanent or fixed wire secured thereto, of a triangular frame, arms or rods connecting the frame with the hanger, an arm pivoted to the apex of said triangular frame, a movable wire secured to said pivoted arm, and an arm or handle connected to the triangular frame and adapted to be operated to raise the apex of the triangular frame, and with it the movable wire, substantially as set forth.

7. The combination, with a hanger and a permanent or fixed wire secured thereto, of a frame, arms or rods pivotally connected at one end to said frame and at their other ends to the hanger, a movable wire connected with said frame, and a spring to permit a slight inward pull of said movable wire when the same is raised, substantially as set forth.

8. The combination, with a hanger or rigid support, a fixed track-wire secured thereto,

and a movable track-wire, of a jointed device connected at one point to the rigid support and at another point to a yielding support and connected with the movable wire, substantially as set forth.

9. The combination, with a hanger and a permanently-fixed wire secured thereto, of a frame, a movable wire connected to said frame, a rod or arm pivoted at one end of the frame and at the other end to the hanger, a spring-actuated yielding support mounted in the hanger, an arm or rod pivotally connected

at one end to the frame and at the other end to the yielding support, and means for operating the frame to raise the movable wire, substantially as set forth.

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

HENRY M. WEAVER.

Witnesses:

T. R. ROBISON,
WM. MCE. WELDON.