

J. RIOTH, JR.  
CARRIER.  
APPLICATION FILED SEPT. 20, 1910.

999,185.

Patented July 25, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

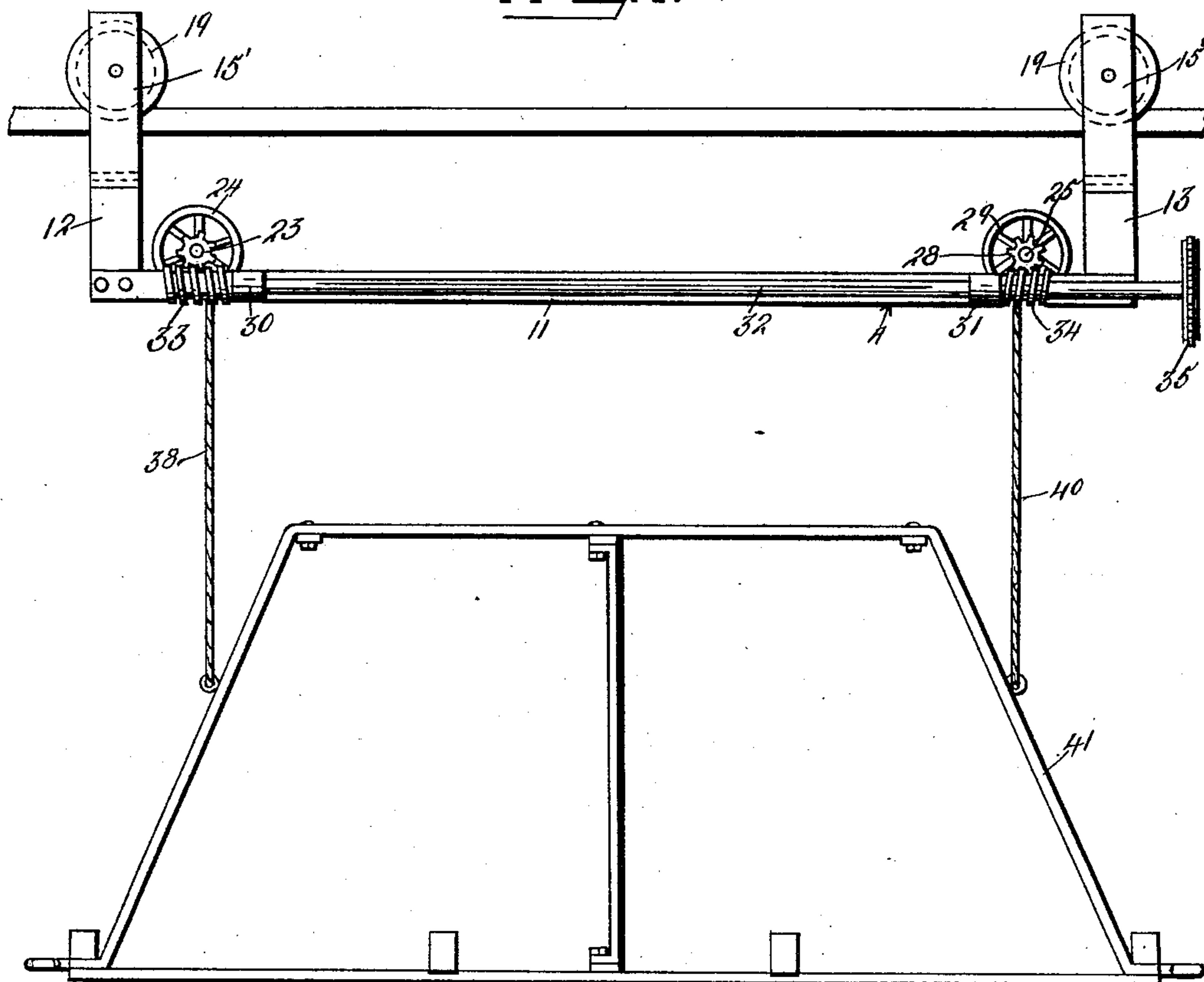
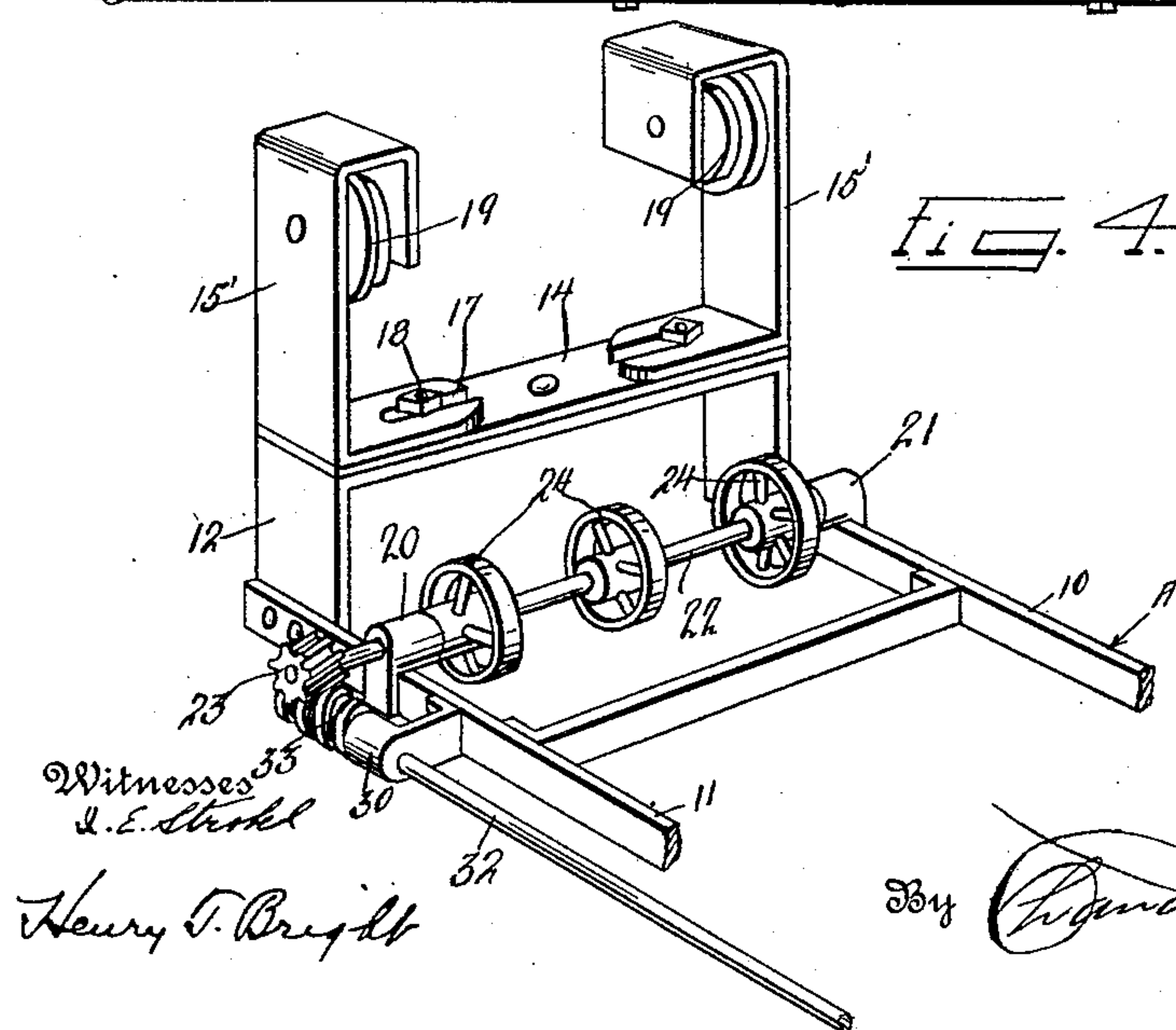


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 2.

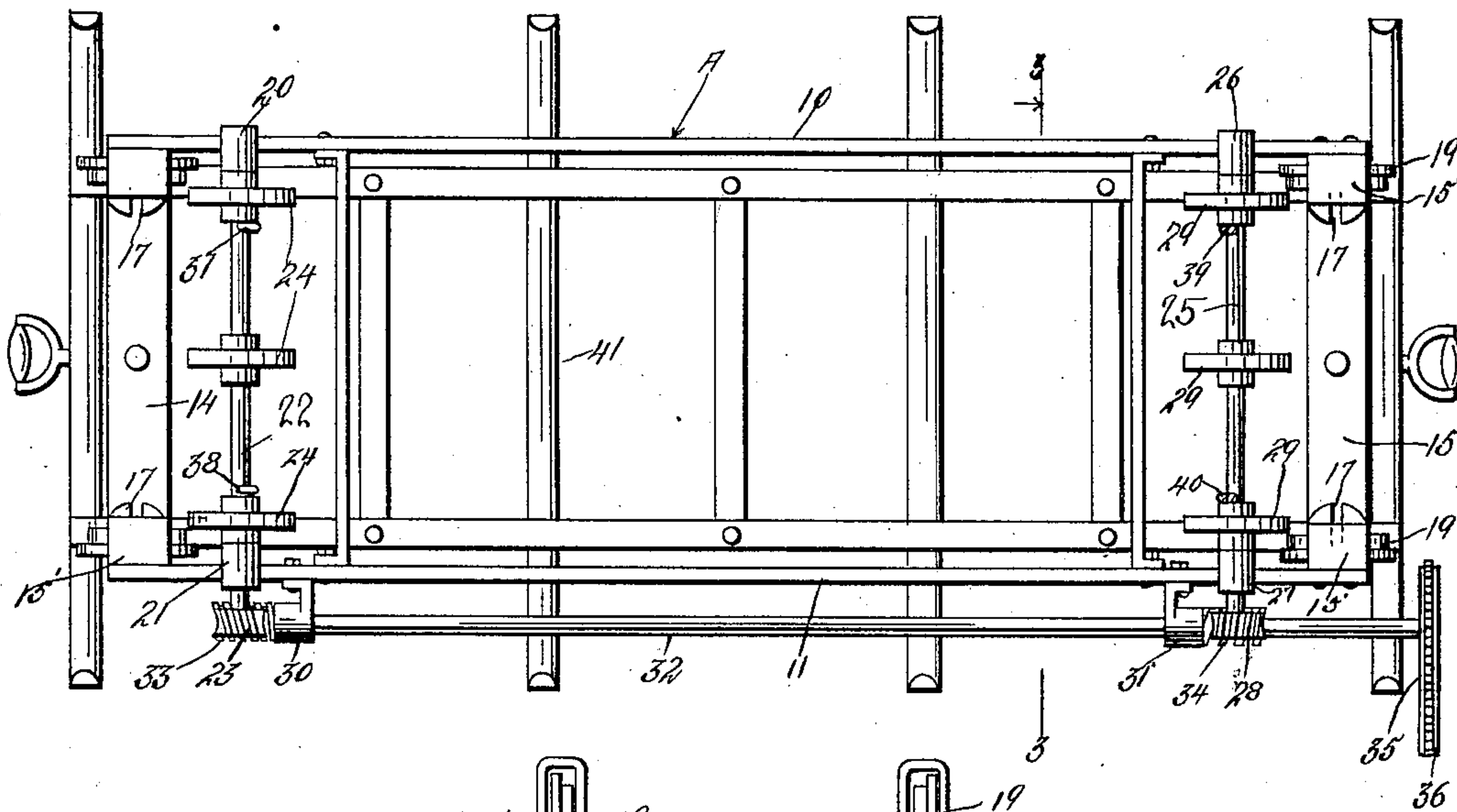
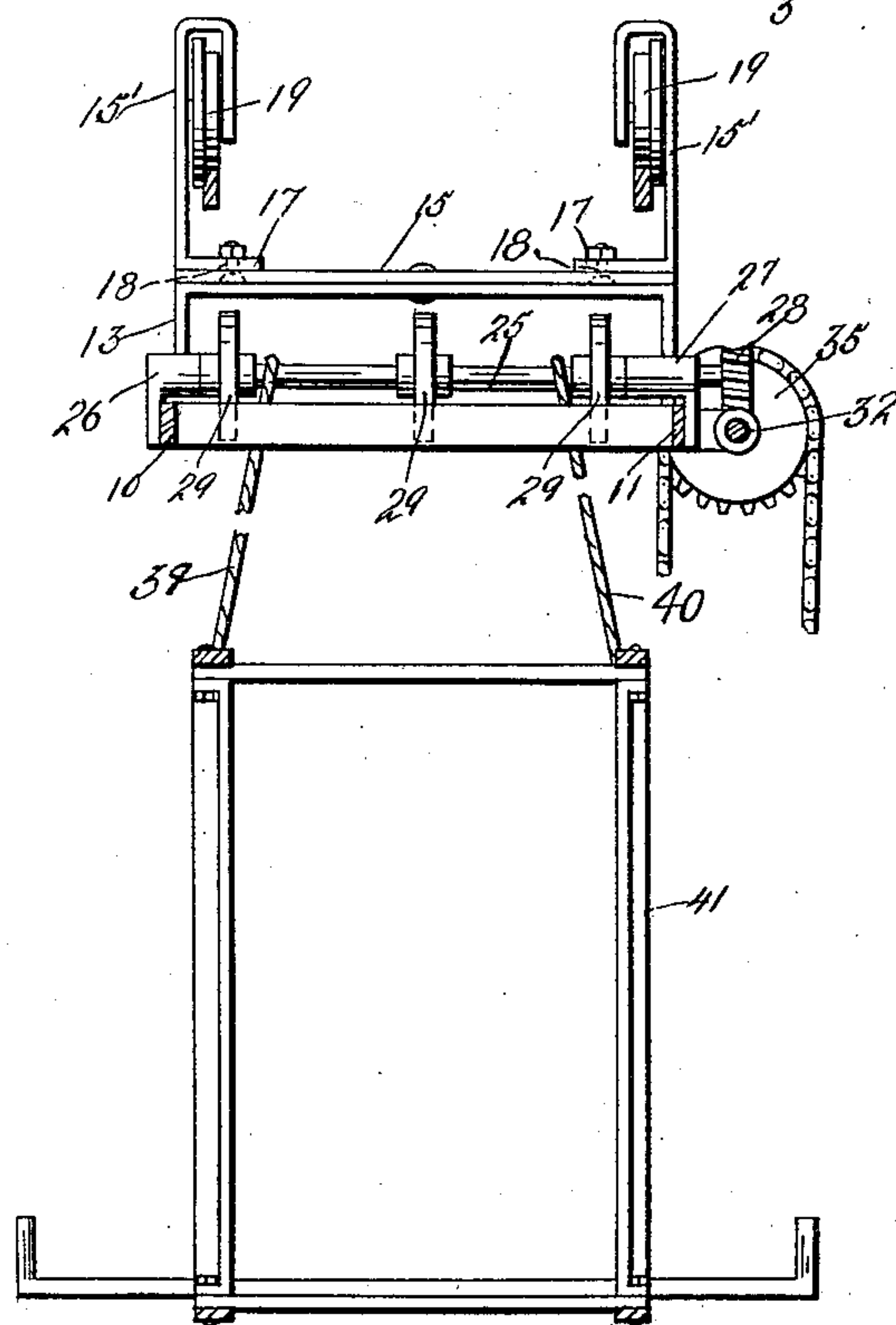


Fig. 3.



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# UNITED STATES PATENT OFFICE.

JOHN RIOTH, JR., OF WILSEY, KANSAS.

CARRIER.

999,185.

Specification of Letters Patent.

Patented July 25, 1911.

Application filed September 20, 1910. Serial No. 582,851.

*To all whom it may concern:*

Be it known that I, JOHN RIOTH, Jr., a citizen of the United States, residing at Wilsey, in the county of Morris, State of Kansas, have invented certain new and useful Improvements in 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.

This invention relates to carriers and particularly to that type which is suspended from a cable for travel thereon.

15 The object of the invention resides in the provision of a carrier of the type named adapted for use in transferring harness in large quantities from the interior of a stable to a suitable storage room.

20 A further object of the invention resides in the construction of a carrier which includes a rack adapted for up and down movement with respect to a supporting part of the carrier, and means whereby said up and down movement may be imparted to said rack.

With the above and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully described and particularly pointed out in the appended claim.

30 In describing the invention in detail reference will be had to the accompanying drawings wherein like characters of reference denote corresponding parts in the several views; and in which—

Figure 1, is a side elevation of a carrier constructed in accordance with the invention; Fig. 2, a plan view of the carrier; Fig. 3, a section on the line 3—3 Fig. 2; and Fig. 4, a detail perspective view of a fragment of the carrier.

Referring to the drawings the invention is shown as comprising a main frame A which includes side members 10 and 11 connected together at each end by end members 12 and 13; said members being in the form of an inverted U with the side member 10 and 11 secured to their arms at the outer ends of the latter. Pivoted upon the end members 12 and 13 are plates 14 and 15 respectively. Secured to each end of the plate 14 is an upstanding bracket 15', the lower end of each of which is bent so as to lie flat on the upper face of the plate 14 as at 16,

and this lower end of each bracket is provided with a recess 17 opening through the outer edge thereof and in which is disposed a bolt 18 carried by the plate 14. By this construction it will be apparent that the bracket 15' may be adjusted toward and away from the central portion of the plate 14. The upper end of the bracket 15' is bent inwardly and then downwardly and a wheel 19 is journaled between said downwardly bent portion and the main portion of the bracket. Mounted upon the plate 15 at each end are brackets similar in every respect to those mounted on the plate 14 and a detailed description thereof will therefore be omitted herein.

Journaled in suitable brackets 20 and 21 secured to the side members 11 and 10 respectively adjacent to the end member 12 is a shaft 22 which carries on one end a worm wheel 23 and has mounted at spaced points thereon wheels 24. Another shaft 25 is correspondingly journaled in brackets 26 and 27 secured to the side members 10 and 11 respectively adjacent the end member 13. This shaft 25 also has mounted on one end a worm wheel 28; while wheels 29, corresponding to the wheels 24 on the shaft 22 are fixed on the shaft 25 at spaced points. Mounted on the side member 11 and extending laterally therefrom are brackets 30 and 31 in which is journaled a shaft 32. This shaft 32 carries at one end a worm 33 in mesh with the worm wheel 23 of the shaft 22 while another worm 34 is carried by said shaft 32 at its other end and meshes with the worm wheel 28. By this construction it will be apparent that as the shaft 32 is rotated the shafts 22 and 25 will be likewise rotated. Fixed on the shaft 32 adjacent the end member is a sprocket wheel 35 and traveling upon this sprocket wheel is a sprocket chain 36 which depends a sufficient distance to permit an operator standing on the ground to manipulate the chain so as to rotate the shaft 32 by reason of the connection of said chain with the sprocket wheel 35.

Secured to and adapted to be wound and unwound upon and from the shaft 22 are flexible connections 37 and 38, while similar connections 39 and 40 are secured to the shaft 25. The free ends of the connections 37, 38, 39, and 40 are secured to a skeleton rack 41 upon which the harness is adapted to be hung. This rack is of frusto-pyramidal



form as such an arrangement of the rack has been found to offer a very extensive hanging area for the harness without rendering the rack too large in bulk for convenient use in a limited space.

The purpose of the wheels 24 and 29 mounted on the shafts 22 and 25 respectively is to prevent the separate connections supported upon each end of the carrier from running over on one another during the winding of same on the respective shafts 22 and 25. The connection 39, as will be apparent, being confined between the central wheel 29 and the wheel 29 adjacent the side member 10, while the connection 40 is confined between the central wheel 29 and the terminal wheel 29 adjacent the side member 11. Likewise the connection 37 is confined between the central wheel 24 and the termi-

nal wheel adjacent the side member 10, while the connection 38 is confined between the central wheel 24 and the terminal wheel 24 adjacent the side member 11.

What is claimed is:—

A carrier comprising a frame, U-shaped members pivotally connected to each end of said frame, means for moving the arms of said U-shaped members toward and away from each other, a wheel journaled on each arm of said members, a rack suspended from said frame, and means for moving said rack toward and away from the frame.

In testimony whereof, I affix my signature, in presence of two witnesses.

JOHN RIOTH, JR.

Witnesses:

ALBERT BEAM,  
J. M. FITCH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."