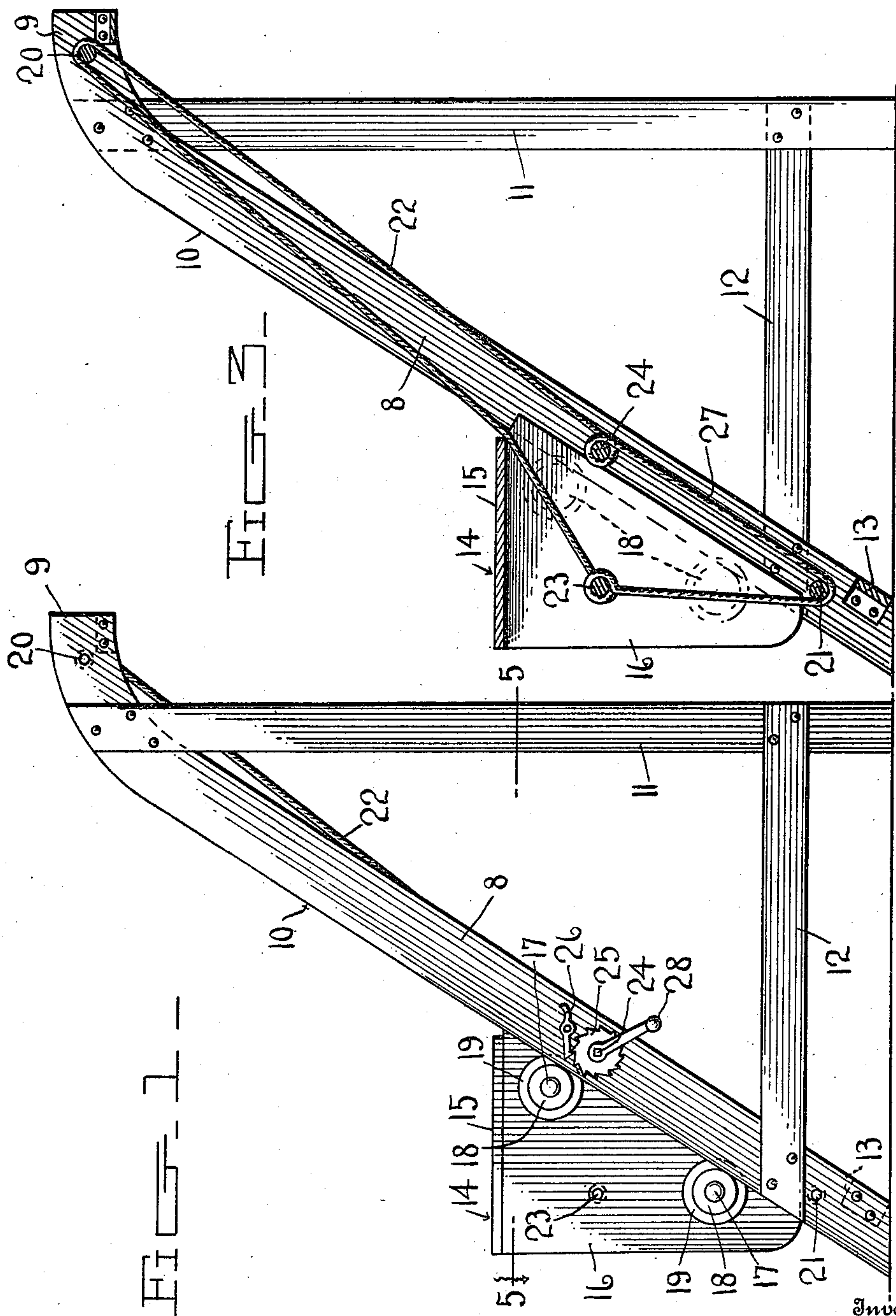


A. ZIKMUND.
 PORTABLE ELEVATOR.
 APPLICATION FILED NOV. 18, 1908.

Patented Nov. 15, 1910.

3 SHEETS—SHEET 1.

975,597.



Inventor

Adolph Zikmund

By

Handwritten signature of Adolph Zikmund

Attorneys

Witnesses

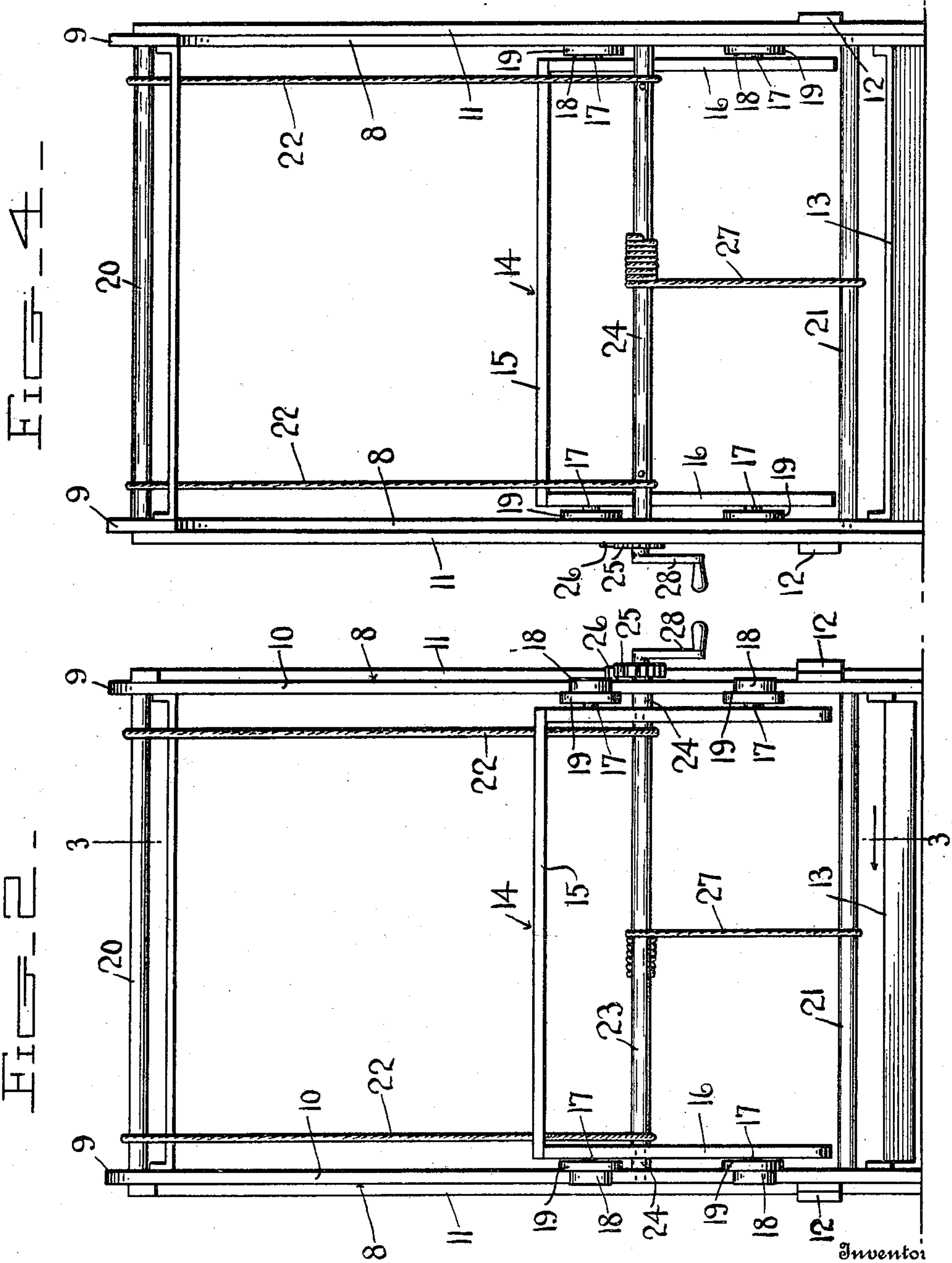
L. B. James
 F. O. Van der

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3 SHEETS—SHEET 2.



Witnesses

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J. O. Paulsen

Adolph Zikmund

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Charles Canale

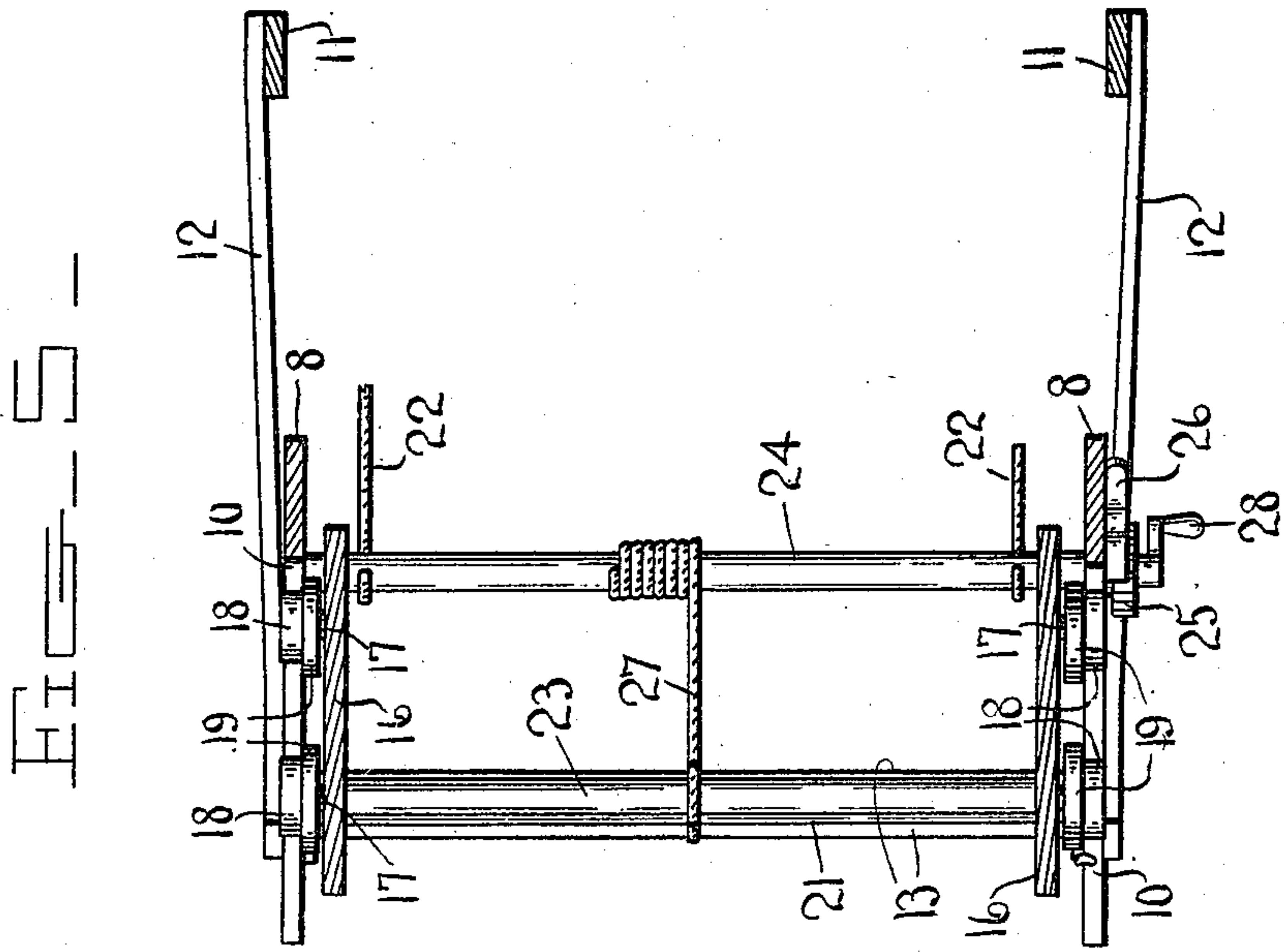
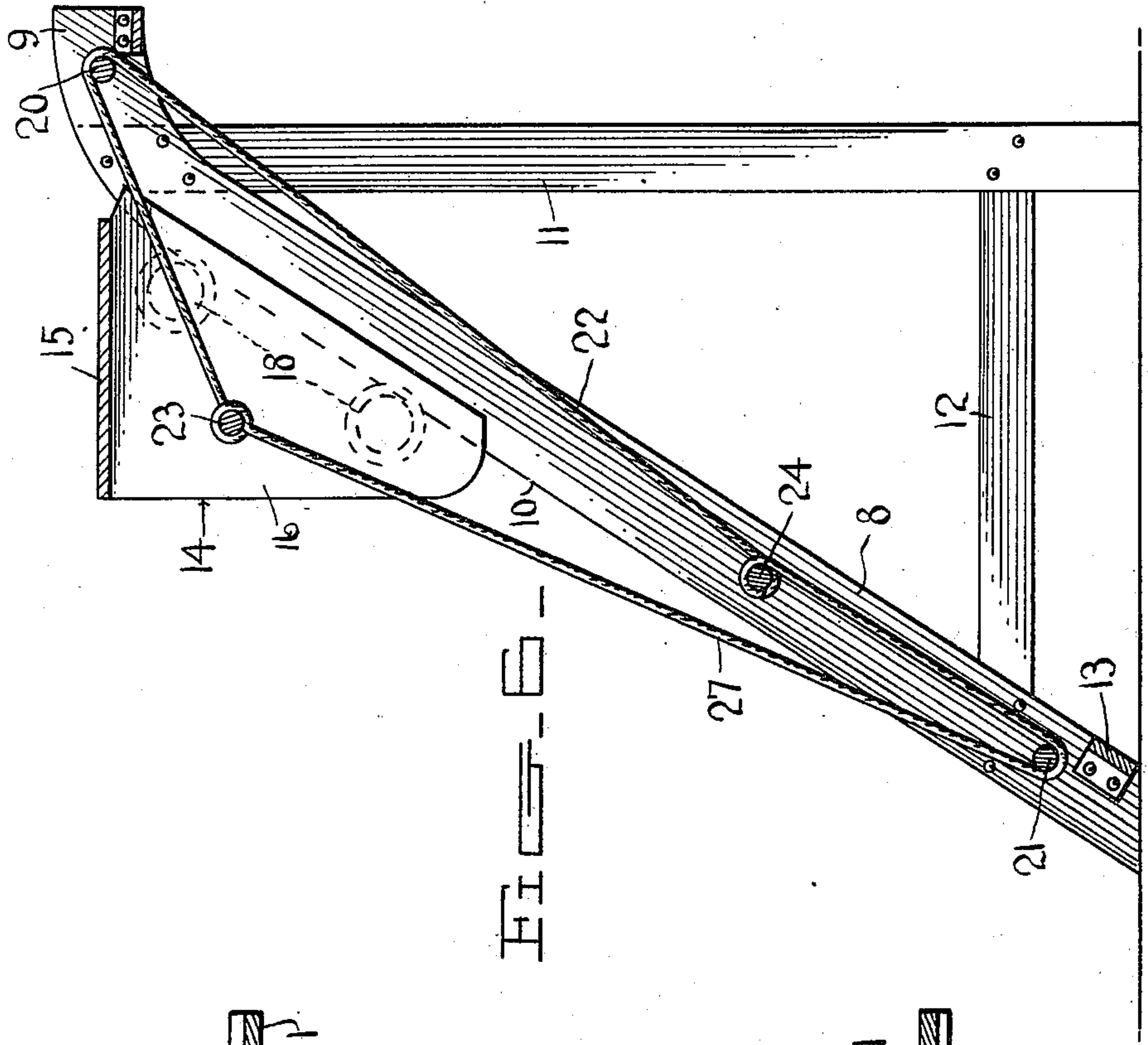
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3 SHEETS—SHEET 3.



Witnesses
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T.O. Parker

Inventor
Adolph Zikmund
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UNITED STATES PATENT OFFICE.

ADOLPH ZIKMUND, OF ORD, NEBRASKA.

PORTABLE ELEVATOR.

975,597.

Specification of Letters Patent. Patented Nov. 15, 1910.

Application filed November 18, 1908. Serial No. 463,195.

To all whom it may concern:

Be it known that I, ADOLPH ZIKMUND, a citizen of the United States, residing at Ord, in the county of Valley, State of Nebraska, have invented certain new and useful Improvements in Portable Elevators; 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.

The invention relates to portable elevators and more particularly to the class of portable hand elevators or hoisting devices for various purposes such as raising material from the ground and loading the same onto a car, loading heavy sacks on a wagon, raising ice into large refrigerators and hoisting and carrying various articles and substances from a low to a high plane.

The primary object of the invention is to provide a hand elevator comprising a main supporting frame having a movable support adapted to travel upon inclined tracks for lifting material from one plane to another and manually operable means for moving said support.

Another object of the invention is the provision of a hand elevator of this character that will be useful to the farmer, merchant, manufacturer and other industrial classes and the construction of which is simple, efficient in operation and inexpensive in the manufacture.

With these and other objects in view the invention consists in the construction, combination and arrangement of elements as will be hereinafter more fully described in detail, illustrated in the accompanying drawings which disclose the preferred form of embodiment of the invention and as pointed out in the appended claim.

It is to be understood various changes and modifications in detail may be made such as come properly within the scope of the appended claim without departing from the spirit of the invention.

In the drawings: Figure 1 is a side elevation of the invention. Fig. 2 is a front elevation thereof. Fig. 3 is a vertical sectional view on the line 5—5 of Fig. 1. Fig. 4 is a rear elevation. Fig. 5 is a transverse sectional view on the line 5—5 of Fig. 1. Fig. 6 is a view similar to Fig. 3 with the elevator raised.

Similar reference characters indicate

corresponding parts throughout the several views in the drawings.

In the drawings the numeral 8 designates the guide rails or sections which may be of iron or other suitable material the upper extremities of which terminate in curved extensions 9 and the outer edges of the said guide rails form tracks 10. Secured to the curved extensions 9 and depending therefrom are uprights or legs 11 to support the guide rails in an inclined position. Connected near the lower ends of the legs 11 and to the guide rails are brace pieces 12 and to maintain the said guide rails in spaced relation to each other there are provided cross strips 13 which are fixed to the inner edges of the guide rails or sections.

Movable over the tracks 10 is a carrier or work support 14 comprising a platform 15 having secured at opposite ends thereof depending triangular shaped side sections 16 which latter project below the upper edges of the guide rails 8 a distance removed from the inner faces thereof. Mounted upon spaced trunnions or stud axles 17 are rollers 18 the latter adapted to contact with and traverse the tracks 10 and each of said rollers is formed at its inner peripheral edge with an annular flange 19 which latter is adapted to prevent lateral shifting of the rollers on the tracks 10 when the carrier is ascending or descending on the same.

Journaled in the curved extensions 9 below the outer edge thereof is a transverse roller 20 and journaled in the guide rails 8 near their lower ends is a transverse roller 21 and trained over the said roller 20 is a pair of lifting cables 22 the latter having one end fixed to a cross rod or bar 23 secured below the platform 15 to the side sections 16 and the other ends of the pair of cables 22 are connected and adapted to be wound in one direction upon a rotary shaft 24 the latter journaled in the guide rails or sections 8 intermediate the ends thereof and to one end of the said shaft 24 is fixed a cog gear or ratchet wheel 25 which is engaged by a locking pawl 26 pivotally connected to one of the guide rails. Trained over the roller 21 and having one end connected centrally to the cross bar or rod 23 is a cable 27 the opposite end of which is connected to and adapted to be reversely wound and unwound with respect to the lifting cables 22 upon the rotary shaft 24 so that the said carrier or work support will be caused to

descend on the tracks 10 when the said shaft 24 is turned in one direction. When the shaft 24 is rotated in a reverse direction the lifting cables 22 will cause the ascending of
5 the work support or carrier 14 upon the tracks 10 to bring the said work support or carrier to move onto the extensions 9 to discharge its load. To operate the shaft 24 there is provided a manually operable turn-
10 ing crank 28 which latter when manipulated will cause the ascending or descending of the carrier or work support.

What is claimed is—

15 An elevator comprising an inclined frame having spaced guide rails forming tracks, rollers journaled in the guide rails at opposite ends thereof, a movable carrier having

side members, a cross rod connecting said side members and disposed outwardly of the center of a section of the side members 20 taken on a plane passing through said cross rod at right angles to the guide rails, flanged rollers journaled on said side members and engaging the tracks, a cable passing over the upper and lower rollers and having its 25 terminals connected to the cross rod, and means for moving the cable longitudinally to raise and lower the carrier.

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

ADOLPH ZIKMUND.

Witnesses:

S. J. BROWN,
LAFE PAIST.