No. 831,217. PATENTED SEPT. 18, 1906.

W. G. EISENMAYER.

ELEVATOR.

APPLICATION FILED APR. 23, 1904.

3 SHEETS—SHEET 1.

Fig. 1

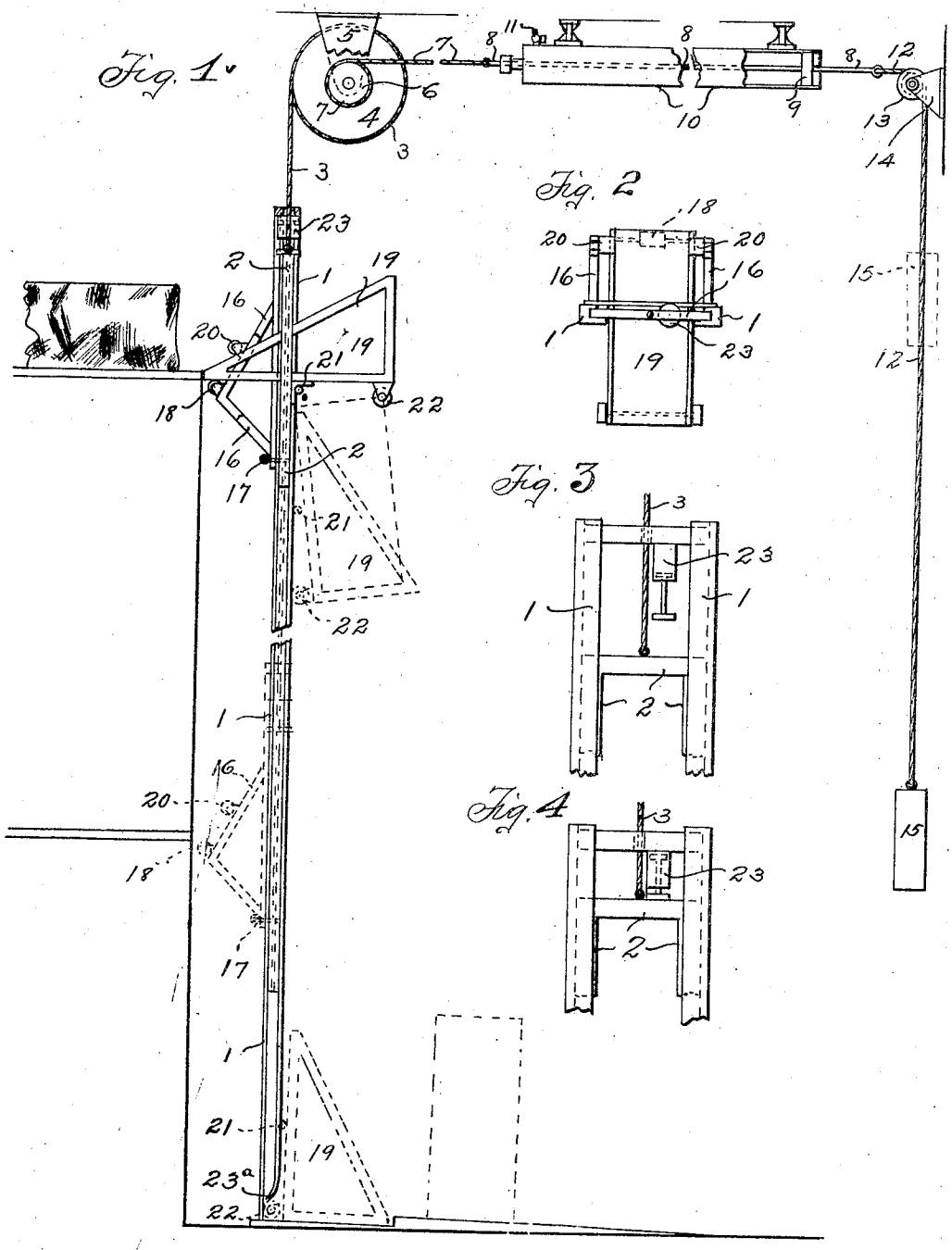


Fig. 2

Fig. 3

Fig. 4

Witnesses
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Inventor
Walter G. Eisenmayer
By
Charles L. Rogers
His Attorney

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3 SHEETS—SHEET 2.

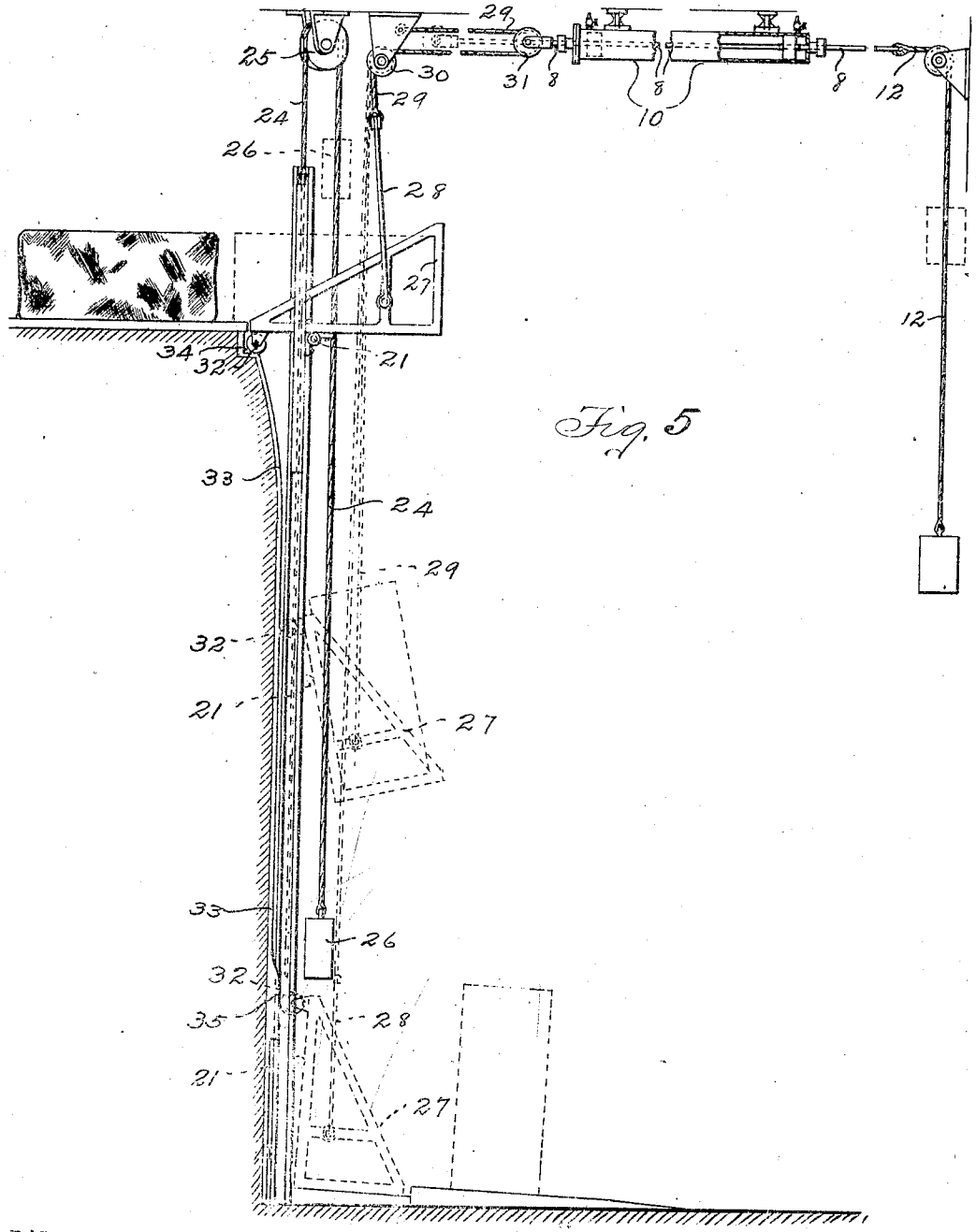


Fig. 5

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3 SHEETS—SHEET 3.

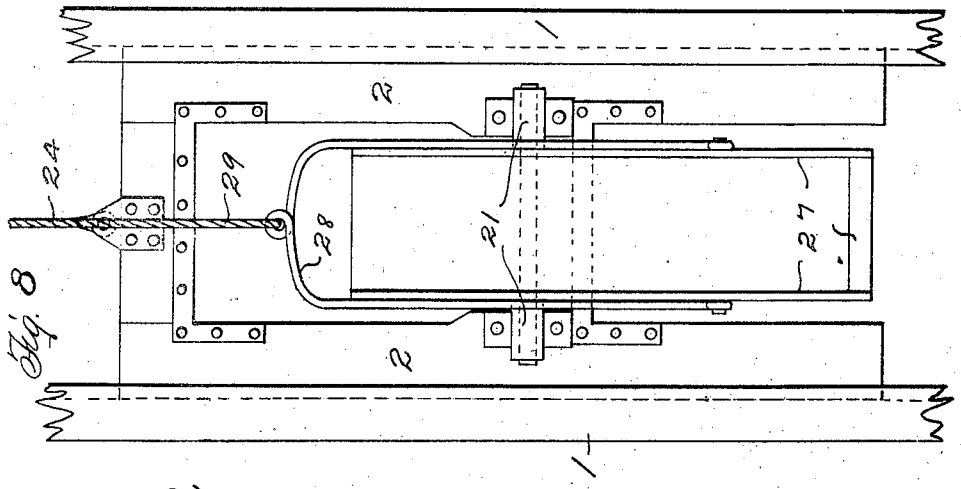


Fig. 8

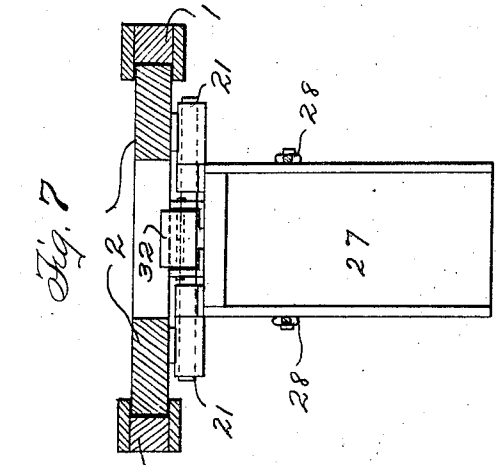


Fig. 7

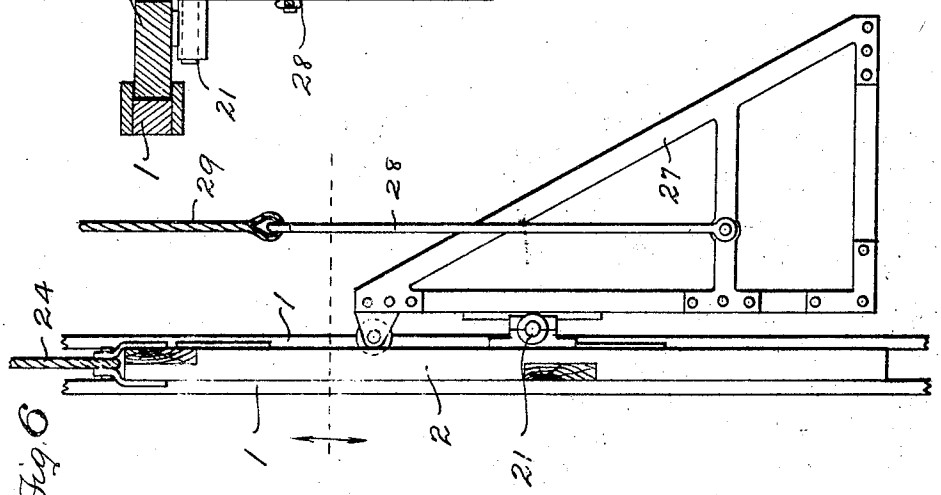


Fig. 6

Witnesses:
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Inventor
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by
Charles L. Rouse
his Attorney

UNITED STATES PATENT OFFICE.

WALTER G. EISENMAYER, OF LOS ANGELES, CALIFORNIA.

ELEVATOR.

No. 831,217. Specification of Letters Patent. Patented Sept. 18, 1906.

Application filed April 23, 1904. Serial No. 204,511.

To all whom it may concern:

Be it known that I, WALTER G. EISENMAYER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in 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.

This invention relates to means for handling material, and particularly to elevators; and some of the objects of the invention are to provide an apparatus of this general character which will be simple in construction and at the same time positive in operation.

Another object of the invention is to lower material from different levels and effect the discharge of the same in a predetermined position.

With these and other objects in view the invention consists, essentially, in the construction, combination, and arrangement of parts, substantially as more fully described in the following specification and as illustrated in the accompanying drawings, forming part of this application, in which—

Figure 1 is an elevational view, partly broken away, illustrating the preferred form of the invention. Figs. 2, 3, and 4 are enlarged fragmental views of details of construction. Fig. 5 is a side elevational view, partly broken away, illustrating a modified form of construction. Fig. 6 is an enlarged detail view of the elevator-cage. Fig. 7 is a top plan view of the same, partly in section; and Fig. 8 is a front elevation of the construction shown in Fig. 6.

Similar characters of reference designate corresponding parts throughout the several views.

Referring to the drawings, and particularly the construction illustrated in Figs. 1 to 4 thereof, the reference character 1 designates a guideway or frame of any preferred construction and material, wherein is movably mounted an elevator-frame 2, with which is preferably connected a rope or cable 3, attached to a superimposed drum or windlass 4, suitably mounted in hangers or brackets 5 and carrying a drum 6, with which is attached a rope or cable 7, connected with the piston-rod 8, carrying a piston 9, movably mounted in the cylinder 10, having a relief cock or vent 11, and a rope or cable 12 is preferably connected with the other end of the piston-rod 8 and passes over a sheave or pulley 13, suitably mounted in a bracket or support 14, and a counterweight 15 is desirably connected with the other end of said rope or cable 12, substantially as shown in Fig. 1 of the drawings.

A tilting or tripping frame 16 preferably slides in the guides or support 1 and is adjustably mounted, by means of a pin or bolt 17, so that the frame may be moved to any desired position throughout the length of the guide or support 1 to effect the shifting of the cage into the proper position to descend at a predetermined place, substantially as illustrated in dotted lines in Fig. 1 of the drawings.

One or more rollers or antifriction devices 18 may be mounted in the tripper or tilting frame 16 to receive and support the receiving end of the cage 19. Rollers 20 are preferably mounted above said end to prevent the tilting of the cage until after the same has been lowered out of engagement with the tripping or tilting frame, as shown in dotted lines on the drawings.

The cage 19 may be of any preferred form, construction, or material and is preferably pivoted eccentrically, as at 21, upon the elevator-frame 2 and is desirably provided with one or more rollers or antifriction devices 22, constructed to bear against the face of the support or guideway 1 during the process of raising or lowering the elevator, as will be readily understood.

A bumper or cushion device 23 may be mounted in the upper portion of the guideway or support 1 to receive the impact of the elevator-frame, substantially as shown in Figs. 3 and 4 of the drawings.

The operation of the invention shown and described will be readily understood from the foregoing description, when taken in connection with Figs. 1 to 4 of the drawings and the following explanation thereof.

Assuming the parts to be in the position shown in full lines in Fig. 1 of the drawings, the cake of ice or other material is slid upon the cage 19 in a horizontal position, whereupon the cage is lowered, thereby tilting the same into a substantially vertical position, as shown in the dotted lines on said figure, and the elevator is then lowered to the desired position for the discharge of the block of ice or other article carried thereby, which can then be slid from the cage in a vertical posi-

tion, substantially as shown in dotted lines at the bottom of Fig. 1, and if found desirable in practice the face of the guideway or support 1 can be recessed, as at 23^a, to receive the roller or rollers 22, carried by the cage, as will be readily understood by those skilled in the art to which this invention appertains. Upon being again elevated to receive another cake of ice the cage 19 is swung into the receiving position by any suitable appliance in the hands of the operator.

Adverting now to the construction illustrated in Figs. 5 to 8, both inclusive, a modified form of the previous construction is shown, wherein the elevator-frame 2 is provided with a rope or cable 24, which passes up over a superimposed sheave or pulley 25 and is connected with a counterweight or other device 26, while the cage 27 is provided with a bail or yoke 28, connected to a rope or cable 29, passing up over a sheave or pulley 30 and around a sheave or pulley 31, back to place of attachment, and the sheave or pulley 31 is preferably connected with a piston-rod 8 in the cylinder 10, said rod being also connected with a counterweighted rope or cable 12 substantially in the manner before described. In this construction the cage 27 is preferably provided at its front end with a bearing-roller or antifriction device 32, constructed to travel in a guide or run way 33, preferably constructed with recess or pocket 34 for the reception of the roller when the cage is in its receiving position, and said guide or run way is desirably provided with a dropping or discharging device 35, adapted to receive the roller 32 on the cage and effect the discharge of material carried thereby, substantially as illustrated in dotted lines in Fig. 5 of the drawings.

The operation of the construction last described is substantially similar to that hereinbefore specified and further explanation thereof will not be required.

It is not desired to limit or confine this invention to the specific construction, combination, and arrangement of parts herein shown and described, and the right is reserved to make all such changes in and modifications of the same as come within the spirit and scope of the invention.

I claim—

1. An elevator provided with a guideway a tilting movable portion, a device upon said guideway constructed to retain said portion in a receiving position and to effect the change of such position when said portion is disengaged therefrom and means for moving said portion.

2. An elevator provided with a guideway a tilting movable portion, an adjustable device upon said guideway constructed to retain said portion in a receiving position and to effect the change of such position when said portion is disengaged therefrom and means for moving said portion.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, at Los Angeles, county of Los Angeles, State of California, this 15th day of April, 1904.

WALTER G. EISENMAYER.

Witnesses:
OWEN G. CATES,
MIGNON FORD.