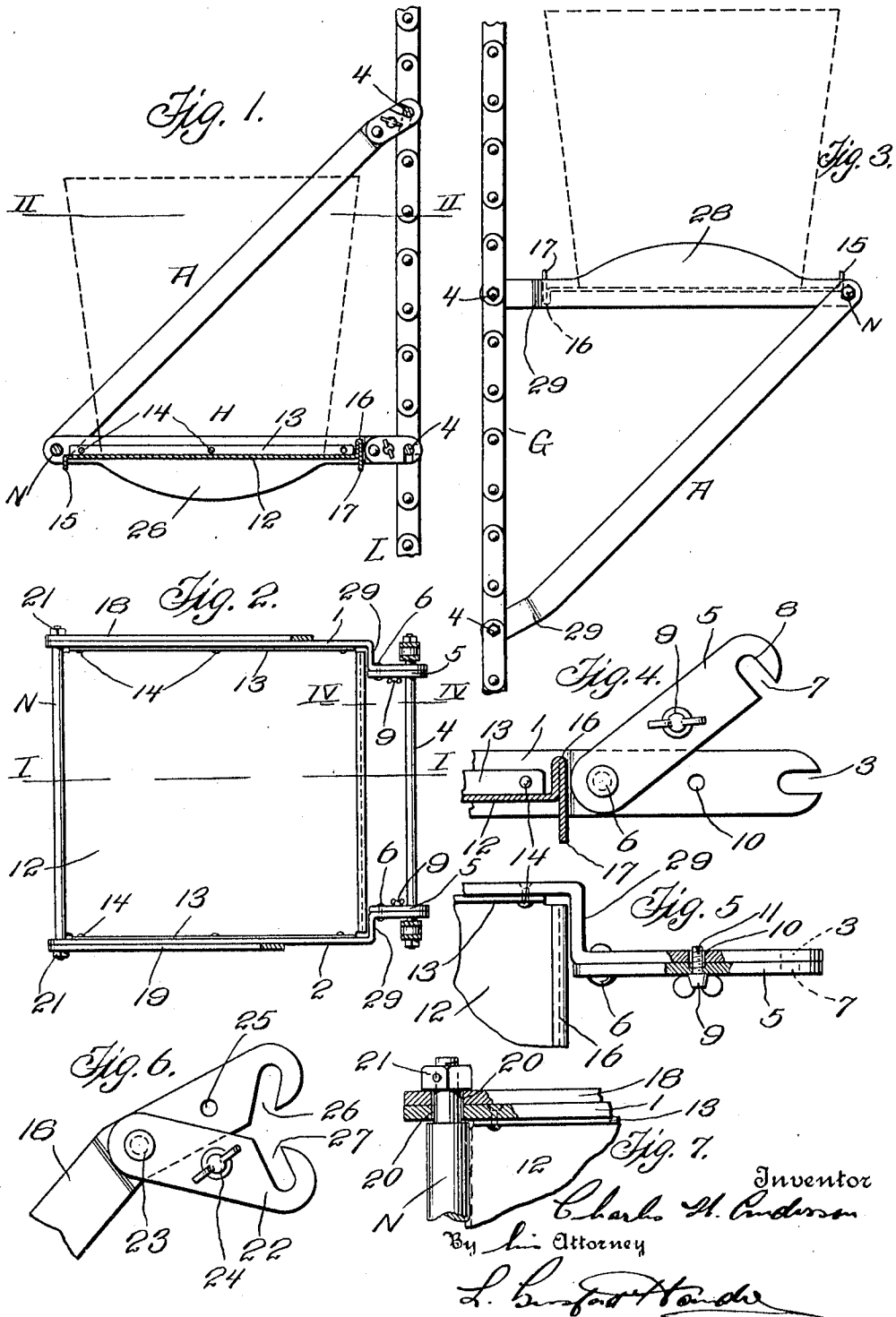


C. W. ANDERSON.
 PLATFORM FOR HOD ELEVATORS.
 APPLICATION FILED APR. 11, 1917.

1,326,896.

Patented Dec. 30, 1919.



Inventor
 Charles H. Anderson
 By his Attorney
 L. H. H. H. H.

UNITED STATES PATENT OFFICE.

CHARLES W. ANDERSON, OF BROOKLYN, NEW YORK.

PLATFORM FOR HOD-ELEVATORS.

1,326,896.

Specification of Letters Patent.

Patented Dec. 30, 1919.

Application filed April 11, 1917. Serial No. 161,345.

To all whom it may concern:

Be it known that I, CHARLES W. ANDERSON, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Platforms for Hod-Elevators, of which the following is a specification.

This invention relates to an improved platform for hod elevators or the like.

The object of the invention is to provide a simple, durable and efficient platform device adapted to move with the elevator chain for conveyance of articles of different descriptions, such for instance as a bucket, building blocks, or the like.

A further object is to so construct the device as to provide retaining flanges at all appropriate points, and to arrange certain of the retaining flanges to constitute stiffening elements for the device to the end that maximum strength is obtained from a minimum weight of material.

A further object is to so arrange the parts of the device that the device may be readily connected to or disconnected from the elevator chain at will, so that when disconnected the parts will lie in a compact and easily transportable condition.

Other objects and aims of the invention, more or less specific than those referred to above, will be in part obvious and in part pointed out in the course of the following description of the elements, combinations, arrangements of parts and applications of principles, constituting the invention; and the scope of protection contemplated will be indicated in the appended claims.

In the accompanying drawings which are to be taken as a part of this specification, and in which I have shown merely a preferred form of embodiment of the invention:

Figure 1 is a vertical transverse sectional view of a platform device constructed in accordance with this invention, said section being taken substantially upon the plane of line 1 of Fig. 2, and illustrating the platform in position upon an elevator chain.

Fig. 2 is a top plan view of the structure shown in Fig. 1, parts being illustrated in horizontal section substantially upon the plane of line II of Fig. 1.

Fig. 3 is a side elevational view of the platform as it appears on the "down" lead of the chain.

Fig. 4 is an enlarged fragmentary detail

sectional view taken upon the plane of line IV of Fig. 2.

Fig. 5 is a similar enlarged plan view of the parts shown in Fig. 4, a portion of the structure being broken away and illustrated in section.

Fig. 6 is an enlarged fragmentary elevational view illustrating the manner of connecting the brace rods to the elevator chain, and

Fig. 7 is an enlarged fragmentary plan view, partly in section, showing the manner of connecting certain of the parts.

Referring to the drawings for describing in detail the structure which is illustrated therein, the reference character L indicates the "up" lead of an elevator chain and G the "down" lead thereof. The platform comprises a horizontal part H and a diagonal brace part A, the horizontal part being connected by its inner end to the chain and the diagonal brace part extending from the outer end of the horizontal part diagonally inwardly to the chain. As illustrated in the drawing the diagonal brace part A extends upwardly from the horizontal part on the "up" lead of the chain and downwardly on the "down" lead of the chain. The diagonal brace part extends upwardly on the "up" lead of the chain for the reason that the platform usually carries more of a load when ascending than when descending and the brace part constitutes an efficient guard for the load as will be presently apparent.

The horizontal part H is made up of a pair of side members 1 and 2 spaced apart. Their outer ends are connected by means of a tie rod N and their inner ends are slotted as at 3 to engage one of the cross bars 4 of the chain. The slots 3 extend inwardly from the ends of the members 1 and 2 and latch members 5 are arranged for engaging the cross bars to retain the slots 3 in position over the cross bar. These latches 5 are pivotally connected to the side members 1 and 2 as at 6, the pivot being substantially in line with the longitudinal axes of the slots 3. Each latch has a slot 7 formed therein at its free end for engaging the cross bar. The slots 7 are arranged at right angles to the slots 3, that is transversally of the length of the latches. This arrangement is clearly indicated in Fig. 4. When the latches are swung downwardly to engage over the cross bars wall parts 8 stand to engage the cross

bar to positively close the open ends of the slots 3.

Any suitable means may be employed for retaining the latches in latching position. The means illustrated comprises thumb screws 9 which have threaded engagement with the latches and are adapted to be moved into and out of engagement through openings 10 formed in the side members 1 and 2. The threads upon the end portion of the screws are preferably mutilated as indicated at 11 so as to prevent entire displacement of the screws from the latches while yet permitting introduction and removal from the openings 10.

A base plate 12 of sheet metal or the like is supported between the side members 1 and 2. This base plate has side flanges 13 which are connected to the side members 1 and 2 preferably by rivets 14. A flange 15 is formed along the outer end edge of the base plate and a double flange 16—17 is formed along the inner edge of the base plate. As viewed in Fig. 1 the flange 15 is turned downwardly and the main flat portion of the base plate stands in a plane below the horizontal plane of the tie rod N so that said tie rod serves in effect, as a flange or barrier with relation to the flat upper surface of the base plate to prevent likelihood of articles sliding off of the forward edge of the base plate. This is important, as it will be seen from comparison with Fig. 3 that the flange 15 is left to project upwardly when the elevator moves to the "down" lead of the chain. The tie rod N thus serves a double purpose of connecting parts together and all serving as a guard member.

The double flanges 16—17 at the rear edge of the base plate mutually strengthen the structure and serves equally well as a guard member whether upon the "up" lead or the "down" lead of the chain.

The diagonal brace part A is made up of two members, as 18 and 19 spaced apart and disposed one adjacent each of the side members 1 and 2. As viewed in Fig. 1, the lower ends of the members 18 and 19 are pivotally connected to the outer ends of the members 1 and 2 by means of the tie rod N. The details of the pivotal connections are clearly shown in Fig. 7 in which figure the side member 1 and the brace member 18 are shown to have mating apertures 20 there-through through which the tie rod extends, a nut or the like as 21 being connected to the outer end of the tie rod.

The upper ends of the braces 18 and 19 are connected to one of the cross bars 4 of the chain in a manner similar to that described for the side members 1 and 2. The details of the parts at the upper ends of the braces 18 and 19 for making connections with the chain are seen in Fig. 6 in which the reference numerals 22 indicates a latch

which is pivotally connected to the member 18 as at 23. A thumb screw 24 is carried by the latch for engaging in an aperture 25 in the same manner as described with reference to the latch 5. The end portion of the member 18 is provided with a slot 26 which extends diagonally from the under edge of the member. The latch 22 is formed with a diagonal slot 27 which is similar to the slot 26 except that the slot 27 extends into the latch from the upper edge. In connecting these parts with the cross bar of the chain the cross bar is simultaneously induced into the slots 26—27, the latches 22 automatically moving to bring the thumb screws 27 into alinement with the openings 25 as the cross bar reaches the ends of the slots. There is no tendency for the cross rods to move out of the slots when the platform is upon the "up" lead of the chain and the engagement of the thumb screws with the apertures 25 will prevent movement of the latches and thereby prevent displacement of the cross rod when the platform is on the "down" lead of the chain.

It is obvious from the above description that the device may be readily attached to or removed from the chain at will and that, by reason of the pivotal connection of the brace members 18 and 19 with the side members 1 and 2 said brace members are free to swing substantially into parallelism with the side members 1 and 2 when detached from the chain thus producing a contracted arrangement of the parts at such times as the device is not connected with the chain.

The side members 1 and 2 may be formed with extensions 28 if desired said extensions being attached to serve as stiffening means and to constitute suitable guard means for any article carried by the platform while on the "down" lead of the chain.

Although the drawing illustrates the side members of the platform to be formed with offset portions as 29 it will be understood that this is only an expedient to accommodate a given size of platform to a given width of elevator chain and may be an offset in either direction or may be omitted entirely.

As many changes could be made in this construction without departing from the scope of the invention as defined in the following claims, it is intended that all matter contained in the above description or shown in the accompanying drawings, shall be interpreted as illustrative only and not in a limiting sense.

Having thus described my invention what I claim as new and desire to obtain by Letters Patent is:

1. A platform for hoist elevators or the like comprising a body member and a brace member, and means connecting said members together constituting a guard member ex-

tending along the forward edge of the body member.

2. A platform for hod elevators or the like comprising a body member and brace members the body member being made up of a base plate and opposite side members, and means connecting the side members with the brace members constituting a guard extending along the forward edge of the base plate.

3. In a platform for hod elevators a body member and a brace member therefor, the body member comprising a base plate and opposite side members, and the base plate having a flange at one edge thereof constituting a guard with respect to one surface of the base plate, the combination therewith of means connecting the brace member with the body member constituting a guard with respect to the opposite surface of the base plate.

4. A platform for hod elevators or the

like, comprising a body member and brace members therefor, and means for detachably connecting said body member and brace members with the elevator chain, said means comprising separately formed parts pivotally connected with said members and having coacting slots therein adjustable to interlock with the elevator chain, means pivotally connecting said separately formed parts with said members, the coacting slots in said parts and members respectively being disposed at an angle to each other, together with retaining means to retain said separately formed parts in position with said slots engaging the elevator chain.

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

CHARLES W. ANDERSON.

Witnesses:

L. GESSFORD HANDY,
GUSTAV GENZLINGER.