

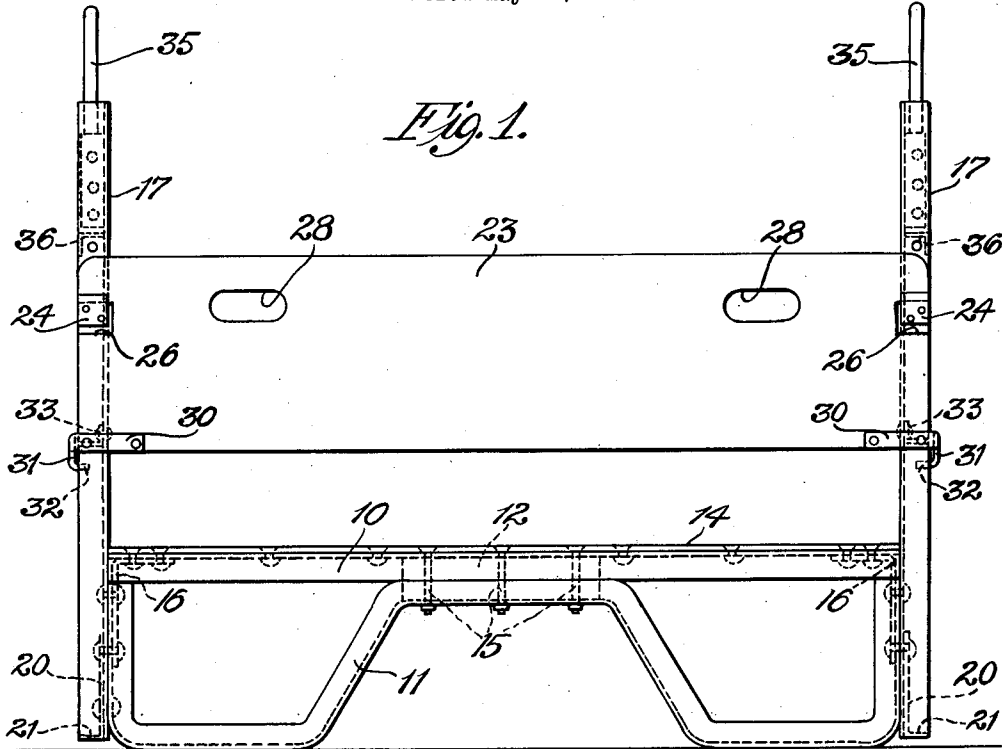
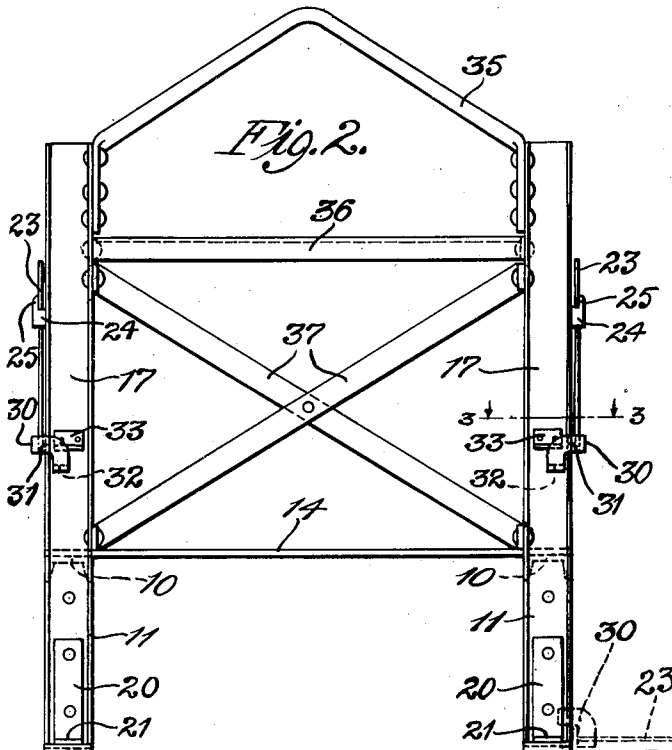
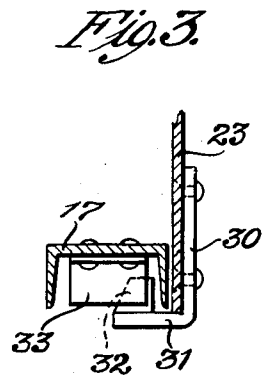
Nov. 1, 1927.

1,647,263

H. BLOUNT

CARRIER

Filed May 30, 1924



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Patented Nov. 1, 1927.

1,647,263

UNITED STATES PATENT OFFICE.

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CARRIER.

Application filed May 30, 1924. Serial No. 716,844.

This invention relates to improvements in carriers, and more particularly carriers adapted to be handled by cranes, hoists, or other conveying apparatus.

5 An object of the invention is to provide an improved carrier of the above type, which is very rigid and capable of supporting heavy loads.

10 Another object of the invention is to provide a carrier, combining means whereby it may be readily engaged by overhead or underneath conveying means for transporting it from place to place.

15 A further object of the invention is to provide a carrier of the above type having displaceable side members adapted to serve as buffer plates in unloading the carrier.

20 In order to attain these objects, in accordance with one embodiment of the invention the carrier is provided with a loading platform or floor which has on its bottom longitudinally extending supports for spacing the platform from the floor and to provide an open space underneath the platform
25 from end to end; members extending upwardly at each corner of the platform are adapted to support side members which are used to retain the articles being carried upon the platform during conveyance and
30 thereafter are adapted to be unlatched therefrom and guided therealong to the floor to serve as buffer plates during unloading of the carrier. Between the corner members at each end of the platform are
35 crossed plates which serve to retain articles upon the platform and to add rigidity to the upwardly extending members and directly thereabove, and extending from side to side at each end are suspension means by which
40 the carrier may be transported from place to place by means of a crane, monorail locomotive, or other conveying means.

45 These and other features of the invention not specifically mentioned above will clearly appear from the following description and the accompanying drawings in which the invention is illustrated in connection with a carrier primarily used for transporting heavy spools of wire about a wire drawing
50 mill.

Fig. 1 is a view in side elevation of a carrier embodying the invention;

Fig. 2 is an end view thereof, and

Fig. 3 is an enlarged detail view taken

upon the line 3—3 of Fig. 2 looking in the direction indicated by the arrows.

Referring to the drawings, 10 indicates side sills formed from iron channels each secured to the upper side of a support 11 formed of angle iron and extending from one end to the other of the sills 10. The supports 11 in side elevation are W-shaped with the center portion of the horizontal arm of the angle iron secured to the horizontally disposed section of the channel sills 10 by a block 12 which may be of wood and is entered between the vertically disposed arms of the channel sills. Spanning the sills 10 and extending from end to end thereof is a plate 14 which may be of steel and forms the floor of the conveyance. Bolts 15 passing through the plate, block and the supports 11 secure these members together at the center as clearly indicated on Fig. 1. Horizontal arms of angle plates 16 suitably fastened, secure the plate 14 to the ends of the channel sills 10 at each corner with the vertical arms of the plates 16 secured to the ends of the supports 11 and to corner uprights of channel iron 17. The uprights 17 extend downward to approximately the bottom of the supports 11 and the above plate 14 a suitable distance. A second set of angle plates 20, secured to the lower ends of the channel uprights 17 and to the vertical end arms of the supports 11, add rigidly to the uprights 17 and tie the uprights, supports and vertical arms of the angle plates 16 together as clearly indicated in Fig. 1. The horizontal arm 21 of each of the angle plates 20 forms a foot upon the uprights 17, the purpose of which will be described hereafter. Carrier upon each pair of uprights 17 along each side of the conveyance and above the floor plate 14 are displaceable side plates 23 made of steel for retaining the articles upon the carrier during transportation, and also adapted to act as buffer plates to protect the floor while unloading the spools of wire or other heavy articles from the conveyance. In the last-mentioned use of the side plates 23 they are unlatched from the position indicated in full outline in the drawings and positioned upon the floor as partially outlined in dotted lines in Fig. 2. The side plates 23 are held in position upon the uprights 17 by lugs 24 carried thereby, each having a

vertically extending portion 25 spaced from the uprights 17 which cooperates with a notch 26 formed in each end of the plates 23 as clearly indicated in Figs. 1 and 2 to retain the plates in position. The notches 26 are of a size which permits the side plates to be lifted vertically by hand, through the medium of holes 28 provided therein, and thereafter moved outwardly to clear the lugs 24, in which position they are free to be let down to the floor. At each lower corner of the side plates 23 and upon their front sides are secured angle iron plates 30. As viewed in Fig. 1 an arm 31 of the plate 30 extends rearward, outside the uprights 17 and then downward with the end 32 thereof turned inward to extend inside and between the parallel arms of the uprights 17 to form a retaining and guiding member for the lower end of the side plates 23. Angle iron stops 33 are fastened upon the uprights 17 a suitable distance above the turned in end 32 of the angle iron plates 30 to limit the upward movement of the side plates 23 when positioning them in their upper position to be held by the lugs 24. Upon lifting the side plates 23 by the hand holes 28 and pulling outward they may be lowered to the dotted position indicated in Fig. 2, in which position the plates serve as buffers to protect the floor while unloading from the carrier heavy articles like spools of wire. The angle iron plates 30, due to their formation and the spacing of the turned in end 32 thereof with respect to the rear wall of the front arm of the uprights 17 as viewed in Fig. 1, serve as a floating hinge and guide for the side plates 23 during the lowering or raising thereof. Fastened to the upper ends of each pair of uprights 17 at each end of the carrier is a suspension bar 35 by means of which it may be transported from place to place by means of a crane, monorail, locomotive or other conveying means. Secured to and extending between each pair of end uprights 17 are horizontally disposed angle irons 36 and positioned therebelow and also secured to the uprights 17 are crossed bars 37 all serving to give rigidity to the structure. In case a side plate should accidentally become unlatched from the retaining lugs 24 while the carrier was being moved by overhead means it would turn about its floating hinge and move down upon the uprights 17 until the turned in ends 32 of the angle iron plates 30 engage the horizontal arms 21 of the angle plates 20 and thereby be held from dropping from the conveyance. By referring to Fig. 2 it will be observed that a clear open space is formed between the uprights 17 and the bottom of the floor plate 14. This space is for the purpose of entering therein any well known form of "lift truck" adapted to have its floor lifted by a

hand or power jack to thereby lift the carrier off the floor and thereafter be wheeled from place to place.

A carrier embodying the features of construction as before pointed out has great utility because of its simplicity, strength and ready adaptability for transportation by either overhead or underneath conveying means, and also in the novel mounting of the side plates thereon wherein they are adapted to be used as buffer plates to protect the floor from being marred or damaged while unloading the carrier and without entirely detaching them from the carrier during this change.

What is claimed is:

1. In a carrier, a frame, a member mounted on the frame, the member being movable into a position wherein it closes one side of the carrier and into a position wherein it serves as a buffer while unloading the carrier, and means carried by the member and slidably co-operating with the frame for limiting the extent of movement of the member.

2. In a carrier, a frame, side members displaceably mounted thereon provided with slots at opposite ends, and retaining means carried by the frame and cooperating with the slots in the side members for securing said side members to the frame, said side members adapted to be released from said retaining means and guided along the frame to the floor for use as buffer members while unloading the carrier.

3. In a carrier, a frame including corner uprights, each provided with an arm, side members displaceably mounted thereon, means carried by the uprights for positioning the side members thereon, and means carried by the side members for guiding and holding them to the uprights, said means comprising members having a portion extending at right angles to the main portion to a point inside and behind the arm of the uprights, said side members adapted to be displaced from their position upon the uprights and guided along the uprights to a position wherein they serve as floor buffers while unloading the carrier.

4. In a carrier, a frame including corner uprights, each provided with an arm, side members displaceably mounted thereon, retaining means carried by the uprights for securing said side members thereto, and means carried by the side members at each end for guiding and retaining said members along and upon said uprights, said means comprising angle plates provided with an arm extending rearward of the front face of the side members to a point inside and behind the arm of the uprights, said side members adapted to be displaced from said first retaining means and guided along the uprights to the floor for use as

buffer members while unloading the carrier.

5 In a carrier, a frame including corner
uprights, each provided with an arm, side
members displaceably mounted thereon pro-
vided with slots at opposite ends, lugs car-
ried by the uprights for holding said side
members thereon, and means carried by the
side members at each end for guiding and re-
taining said members along and upon said
uprights, said means comprising angle
plates provided with an arm extending rear-
ward of the front face of the side members
to a point inside and behind the arm of the
uprights, said side members adapted to be
displaced from said lugs and guided along
the uprights to the floor for use as buffer
members while unloading the carrier.

6 In a carrier having a raised platform,
means for supporting said platform so ar-
ranged that an open space is formed there-
under from end to end for the insertion of
underneath transporting means, uprights
connected to said supporting means at each
corner of the platform, side members dis-
placeably mounted thereon, means carried
upon the uprights for positioning said side
members thereon, said side members adapted
to be displaced from said positioning means
and guided along the uprights to the floor
for use as buffer members while unloading
the carrier.

7 In a carrier, a platform, supports for
the platform, channel iron corner uprights
secured to said supports, side plates displace-
ably mounted outside of the uprights, the
side plates being provided with slots co-op-
erating with retaining means carried by the
uprights to position the side plates thereon,
and means carried by the side plates at each
end for guiding and holding said side

plates along and upon said uprights, said
means comprising angle iron plates provided
with an arm extending rearward of the front
face of said side plates and then downward
and inward to a point inside and between
the parallel arms of the channel uprights,
said side plates adapted to be released from
said retaining means and guided along the
uprights to the floor for use as buffer plates
while unloading the carrier.

8 In a carrier having a raised platform,
means for supporting said platform so ar-
ranged that an open space is formed there-
under from end to end for the insertion of
underneath transporting means, uprights
carried by said supporting means, side mem-
bers detachably mounted thereon, and
means carried by said uprights whereby the
carrier may be transported by a crane or
hoist.

9 In a carrier having a raised platform,
means for supporting said platform so ar-
ranged that an open space is formed there-
under from end to end for the insertion of
underneath transporting means, uprights
carried by said supporting means, side mem-
bers displaceably mounted thereon and pro-
vided with slots at opposite ends, retaining
means carried by the uprights for securing
the side members to the frame, said side
members adapted to be released from said
retaining means and guided along the
frame to the floor for use as buffer mem-
bers while unloading the carrier, and means
carried by said uprights whereby the car-
rier may be transported by crane, or hoist.

In witness whereof, I hereunto subscribe
my name this 20th day of May, A. D., 1924.

HARRY BLOUNT.