

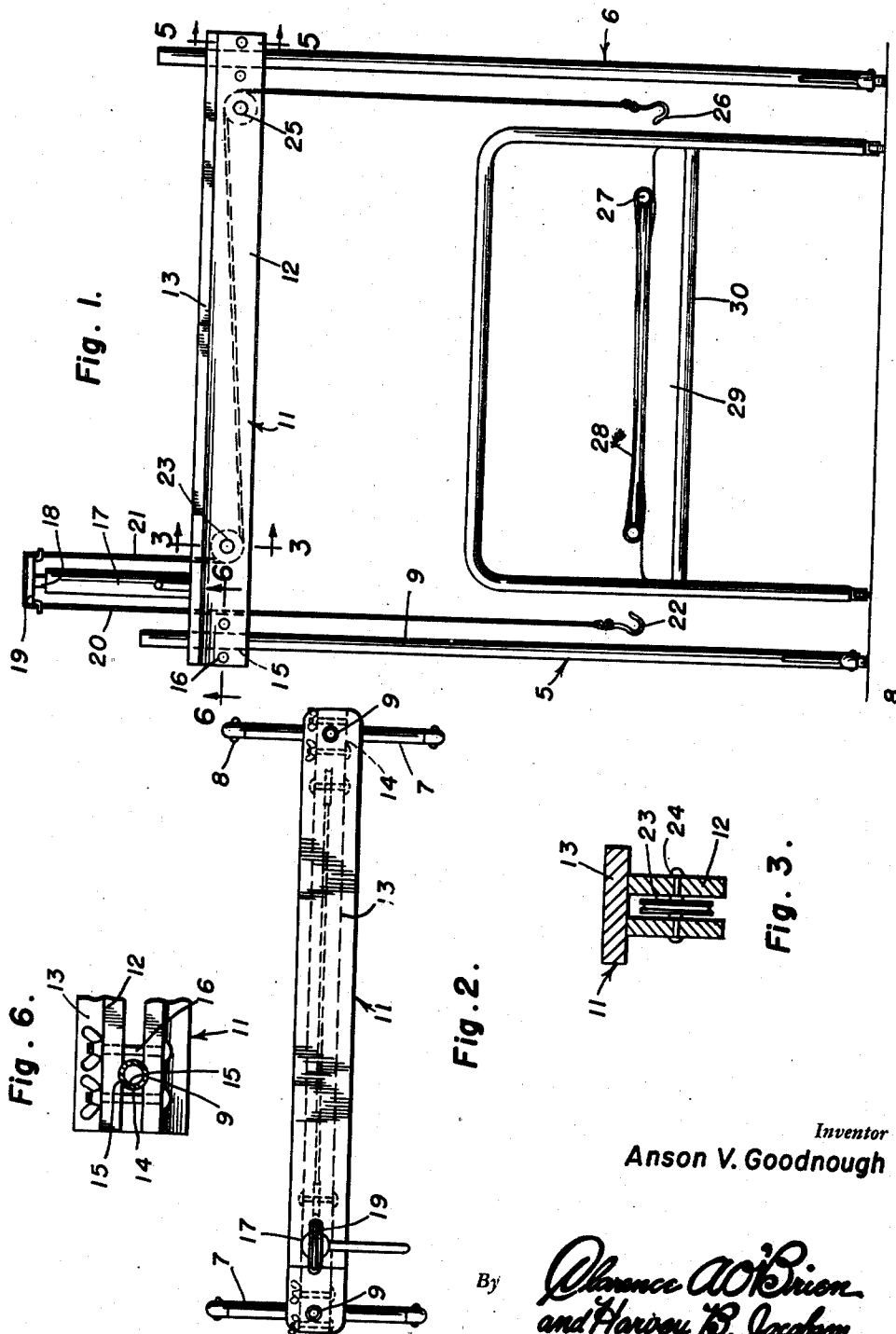
Oct. 3, 1950

A. V. GOODNOUGH
INVALID CARRIER

2,524,314

Filed May 13, 1947

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

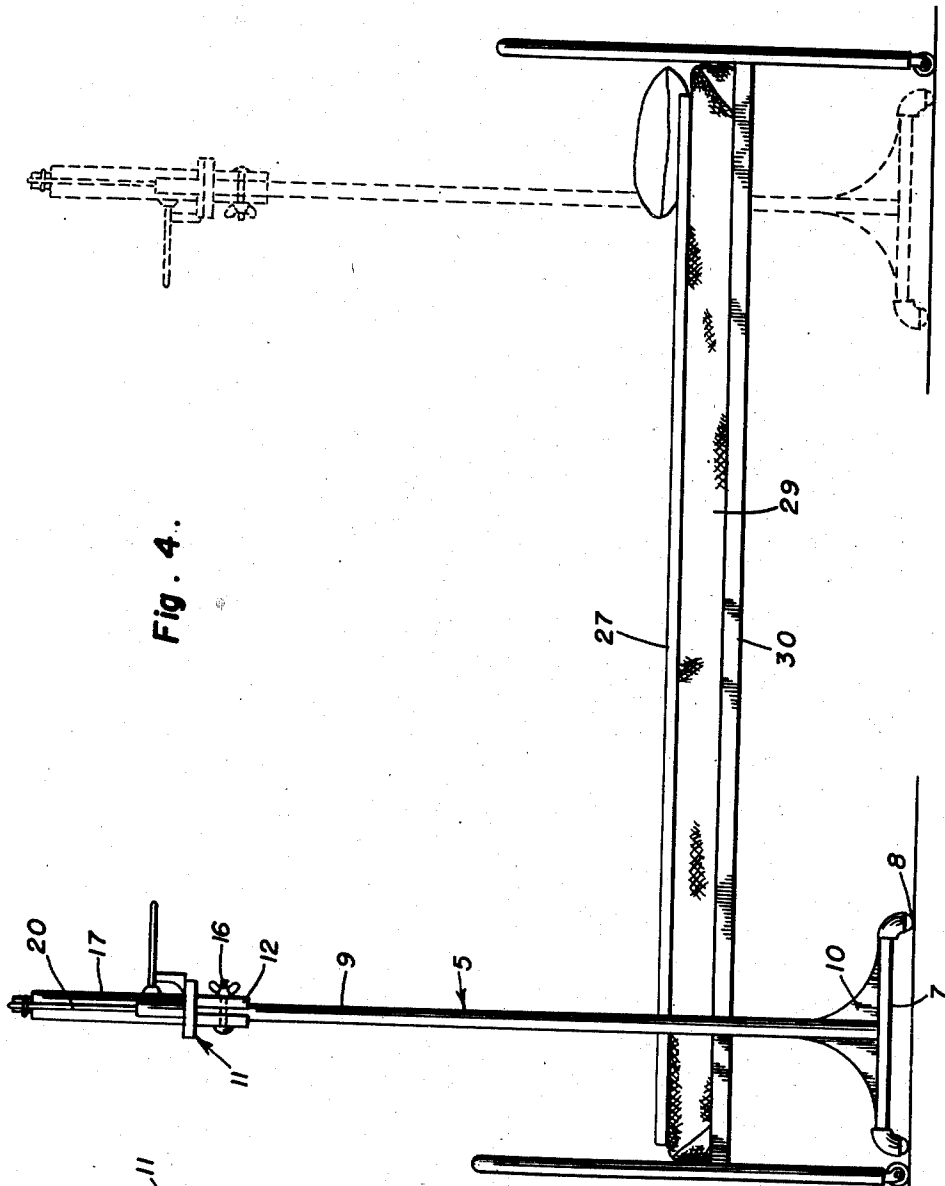


Fig. 4.

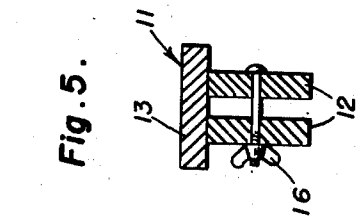


Fig. 5.

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UNITED STATES PATENT OFFICE

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INVALID CARRIER

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2 Claims. (Cl. 5—85)

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The present invention relates to new and useful improvements in invalid carriers or handling devices whereby a bed-ridden person may be lifted from a bed and moved therefrom without causing discomfort or pain to the patient during the handling thereof.

More specifically, the invention embodies the provision of a portable hoist for a Bradford frame, such as commonly employed for the handling of bed-ridden persons, and by means of which the frame, with the person lying thereon, may be lifted from a bed and moved to any desired location while maintaining the frame in a horizontal position.

A further object of the invention is to provide a portable hoist of this character including a pair of stands having a transverse beam detachably and adjustably mounted on the stand whereby the parts may be easily and quickly dismantled from each other for storing in a substantially compact form when not in use.

A still further object is to provide an apparatus of this character of simple and practical construction, which is strong and durable, efficient and reliable in operation, relatively inexpensive to manufacture, and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is an end elevational view of a bed showing the portable hoist in a position straddling the bed;

Figure 2 is a top plan view of the hoist;

Figure 3 is a sectional view taken on a line 3—3 of Figure 1;

Figure 4 is a side elevational view;

Figure 5 is a sectional view taken on a line 5—5 of Figure 1; and

Figure 6 is a fragmentary sectional view taken on a line 6—6 of Figure 1.

Referring now to the drawings in detail wherein, for the purpose of illustration, I have disclosed a preferred embodiment of the invention, the numerals 5 and 6 designate a pair of stands each of which includes a base 7 constructed of a horizontal metal bar having rollers 8 journaled at each end.

A metal post 9 rises from the center of the base 7 with its lower end welded or otherwise suitably secured to said base and webs 10 are likewise weld-

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ed or otherwise suitably secured to the base as well as to the standard to brace the latter.

A horizontal beam, designated generally at 11, is of T-shape in cross section with the vertical portion of the beam composed of a pair of spaced, parallel members 12, to the upper edge of which the top 13 is suitably secured.

The top 13 of the beam, adjacent each end thereof, is formed with an opening 14 slidably receiving the standard 9 and the opposed sides of the members 12 are formed with grooves 15 in which the standard 9 is seated. Bolts and wing nuts 16 extend transversely of the members 12 at opposite sides of the standard 9, the members 12 having sufficient resiliency whereby the tightening of the wing nuts on the bolts will clamp the beam 11 in vertically adjusted position on the standards.

Suitably supported on the top 13 of the beam, adjacent one end thereof, is a conventional mechanical or hydraulic jack 17 including a vertically movable plunger 18 having a cross-head 19 at its upper end and to the ends of which cables 20 and 21 have one end attached thereto.

The cable 20 extends downwardly through the beam 11 with a hook 22 at its lower end and the cable 21 also extends downwardly through the top 13 of the beam and around a pulley 23 journaled between the members 12 on a pin 24, the cable then extending toward the opposite end of the beam 11 and around a pulley 25, and is likewise provided at its lower end with a hook 26.

The hooks 22 and 26 are adapted to engage the side rails 27 of a conventional form of Bradford frame and which includes a canvas web 28 stretched between the sides and ends of the frame, and on which a patient is adapted to lie with the frame 27 resting on the mattress 29 of a bed 30.

In the operation of the device, by engaging the hooks 22 and 26 to the sides 27 of the Bradford frame, and operating the jack 17, the frame, with the patient thereon, may be lifted and removed from the bed and moved to a desired location by rolling the stand away from the bed.

In view of the foregoing description taken in conjunction with the accompanying drawings, it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention, the same is susceptible to certain changes fully compre-

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hended by the spirit of the invention as herein described and within the scope of the appended claims.

What I claim as new is:

1. An invalid carrier for auxiliary bed frames and comprising a portable stand adapted to straddle a bed and including a pair of standards, an inverted channel shaped beam slidably positioned on the standards, means clamping the sides of the beam against the standards to hold the beam in vertically adjusted position thereon, and hoisting means carried by the beam and engaging the auxiliary bed frame.

2. An invalid carrier for auxiliary bed frames and comprising a portable stand adapted to straddle a bed and including a pair of standards and a transverse beam vertically adjustable on the standards, and hoisting means carried by the beam and engaging the auxiliary bed frame, said hoisting means comprising a jack mechanism in-

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cluding a plunger having a cross-head, and a cable connecting the cross-head to the auxiliary bed frame.

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