

Nov. 15, 1949

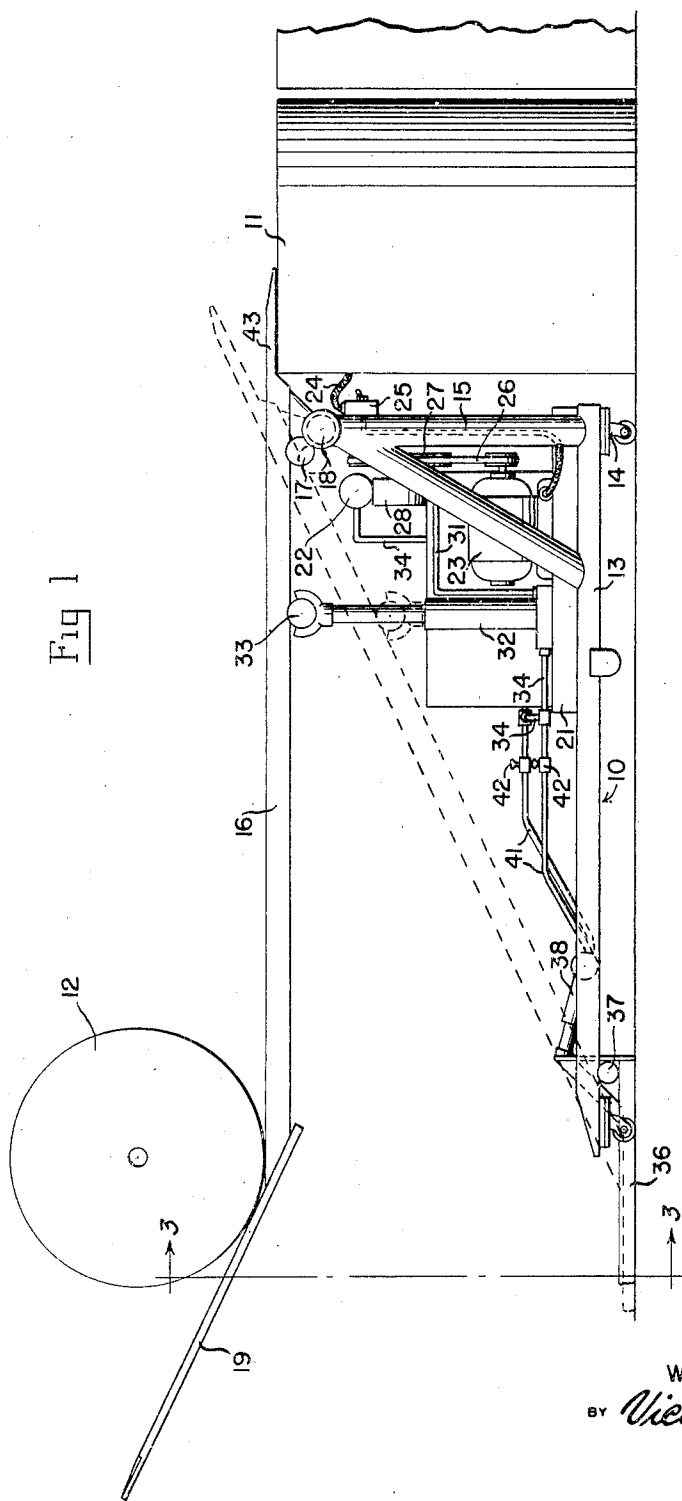
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2,487,808

HYDRAULIC HOIST

Filed Aug. 13, 1947

2 Sheets-Sheet 1



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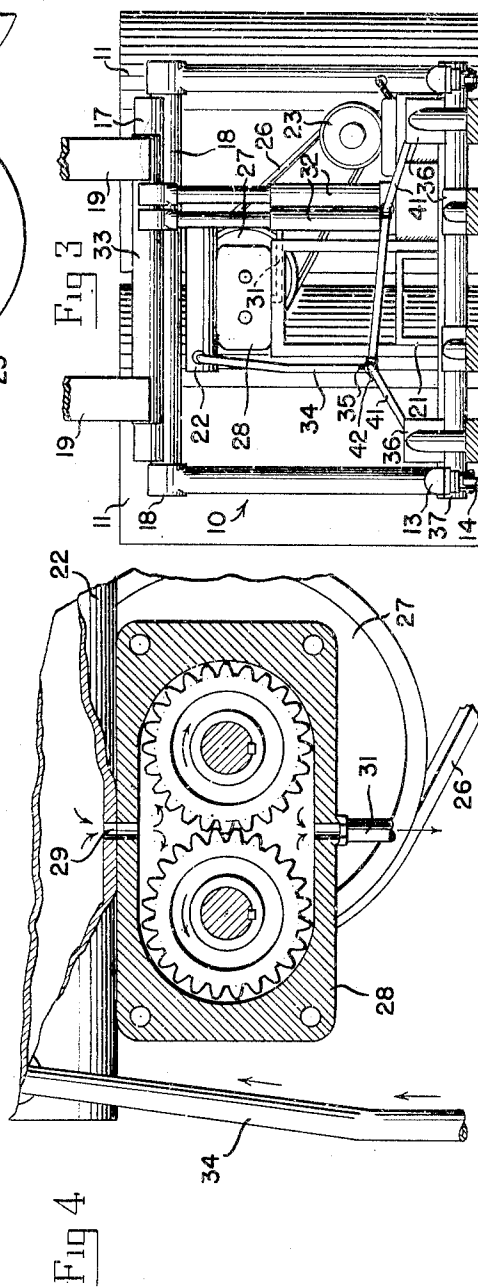
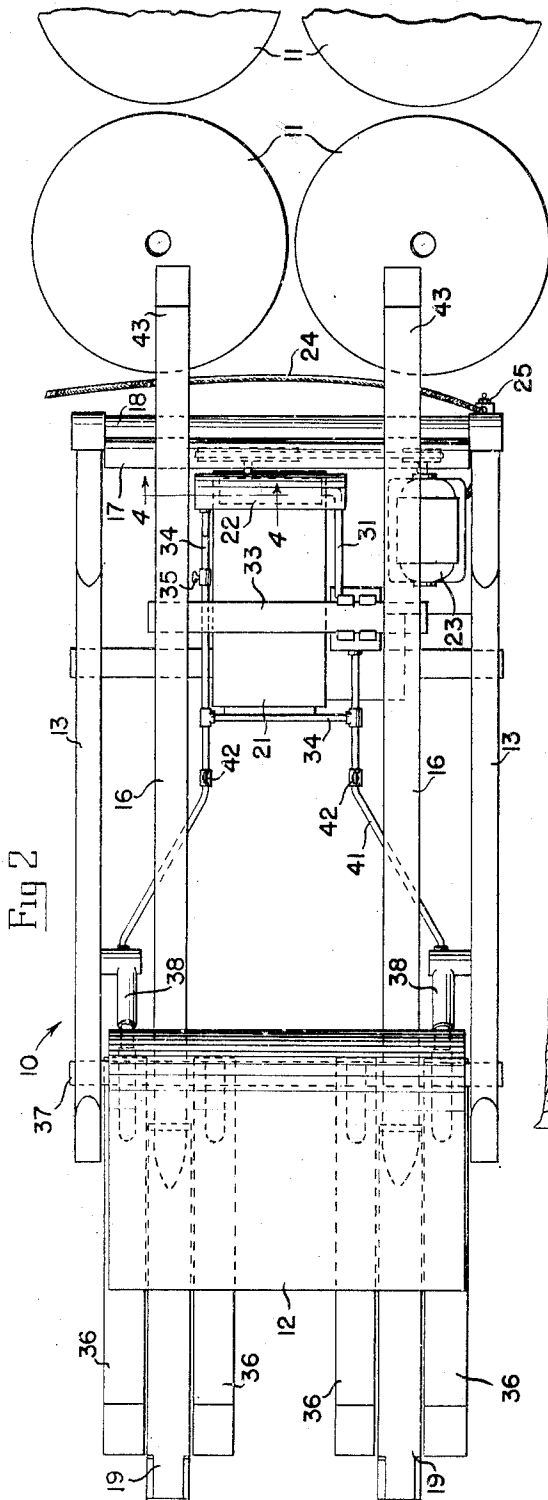
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UNITED STATES PATENT OFFICE

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HYDRAULIC HOIST

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2 Claims. (Cl. 214—130)

1

This invention relates to a hydraulic hoisting device.

It is an object of the present invention to provide a hydraulic hoisting device which is portable and which is adapted for use in the hoisting of heavy articles from a floor to a stacked position on other articles and wherein the articles are easily placed on the carrier at the floor position and easily slid or moved from the carrier to the elevated position on the other articles and wherein the ends of the carrier may overlie the other articles to provide a continuous support of the articles being stacked from the hoisting device to the other articles on the elevated station.

Other objects of the present invention are to provide a hydraulic hoisting device which is of simple construction, durable and strong, self-contained, inexpensive to manufacture, convenient to use and efficient in operation.

For a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which

Fig. 1 is a side elevational view of the hoisting device with the carrier elevated and with an article thereon about to be removed from the carrier and delivered to an elevated position on other articles and showing with dotted lines the lowered position of the carrier,

Fig. 2 is a top plan view of my hoisting device,

Fig. 3 is a cross-sectional view in elevation of the hoisting device as viewed generally on line 3—3 of Fig. 1,

Fig. 4 is an enlarged fragmentary cross-sectional view taken through the gear pump and as viewed generally on line 4—4 of Fig. 2.

Referring now to the figures, 10 generally represents my hydraulic hoisting device which as viewed in Figs. 2 and 3 is moved to a location in front of articles 11 which have been arranged on the floor to receive other articles 12 in stacked relationship thereon. This device comprises a bottom frame 13 formed of large pipes welded together. The ends of the frame are supported on castoring wheels 14. An upright frame 15 likewise formed of pipe pieces welded together, and to the bottom frame 13 provides a pivot support for a carrier or lifting platform 16. This platform has a transverse member 17 which is connected to the exterior of a sleeve 18 rotatable upon the upper end of the upright support 15. The end of the platform is adapted to project over the top of articles 11 whereby the articles 12 can be extended thereover without any possibility of the same separating the hoisting device from

2

the articles and from falling downwardly therebetween.

The platform has extensions 19 at its forward end which are connected so as to extend at an angle with respect thereto and so that when the carrier is dropped upon the floor the extensions 19 will lie flush therewith so as to retain any article that is moved onto the same. The extensions also serve as the carrier 16 is elevated to prevent the rearward movement of the articles and has stops therefor.

On the frame 12 there is provided a base piece 21 on which is mounted a fluid supply tank 22 and an electric motor 23. The electric motor may receive current through an electric cord 24 in which is a control switch 25 fixed to the upright 15 in an easily accessible location. The motor is connected by a pulley belt 26 to a large wheel 27 of a gear pump 28 which receives liquid from supply tank 22 to an inlet 29 and discharges liquid through an outlet pipe 31 for delivery to hydraulic jacks 32 engaging with a transverse member 33 on the platform skids to elevate the carrier and cause it to lift the article 12 from dotted line position shown in Fig. 1 to the full line position shown so that the article 12 can be easily moved off the carrier and onto the articles 11.

Oil can be returned from the hydraulic jacks 32 through return pipe 34 leaving from the jacks to the fluid supply tank 22. A sleeve 35 may be provided in the return pipe line which can be turned to lower the jacks.

In order to assist the carrier 16 in initially raising the article 12 from the floor and to retain the same on the carrier during the first part of the movement of the carrier there are provided a plurality of skids 36 located on opposite sides of the extension 19 and fixed to the end of the frame 13 for pivotal movement as indicated at 37. Hydraulic jacks 38 are connected to skids 36 to elevate the same when desired. Thereafter the carrier extensions will be raised and pick up the article and raise it to the elevated or stacking position.

If the hoisting device is to be used for distributing articles, the skids 36 can be elevated to raise the articles from the floor by a slight distance to permit the easy transfer of the device with the articles over the floor surface. Pipe extensions 41 with control valves 42 are respectively extended from the discharge or return pipe 34 to the fluid jacks 38. Said carrier 16 has extensions 43 adapted to extend over the elevated station or over the top of the articles 11 to be

supported thereon as the article 12 is removed from the carrier 16.

While various changes may be made in the detailed construction it should be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claims.

I claim:

1. A hoisting device comprising a base frame, an upright portion extending upwardly from one end of the base frame, an article carrier pivotally connected to the upright portion and extending to the opposite end of the frame and adapted to be raised from a floor position beyond the end of the frame to an elevated position to permit the easy removal of articles therefrom toward and over the pivot end of the carrier, said carrier having extensions at its pick up end which extend at an angle and adapted to lie flush on the floor when the carrier is lowered and power operated means engaging with the carrier to cause its pivoted movement from its floor position to its elevated position, and said upright portion of the frame having a sleeve pivoted to the same and extending transversely thereof, a transverse member extending across the bottom of the carrier and connected to the exterior of the sleeve to pivot therewith as the sleeve is pivoted upon the upright portion.

2. A hoisting device comprising a base frame, an upright portion extending upwardly from one end of the base frame, an article carrier pivotally connected to the upright portion and extending to the opposite end of the frame and adapted to be raised from a floor position beyond the end of the frame to an elevated position to permit the easy removal of articles therefrom toward

and over the pivot end of the carrier, said carrier having extensions at its pick up end which extend at an angle and adapted to lie flush on the floor when the carrier is lowered and power operated means engaging with the carrier to cause its pivoted movement from its floor position to its elevated position, and extensions on the carrier adapted to overlie the receiving station for the articles being stacked, and ski means pivotally connected to the bottom frame and extending at opposite sides of the extensions of the carrier, said power means including jacks adapted to be operated to pivot an article to a position slightly raised from the floor and sufficient to permit the movement of the device over the floor with the article and further assist the initial movement of the carrier as it is raised to elevate the article to a more elevated position and to retain the article on the carrier extensions throughout the initial movement of the carrier.

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