Aug. 12, 1947. C. L. CALHOUN 2,425,302

SAFETY ADJUSTABLE PIPE STABBING BOARD

Filed Nov. 16, 1945 2 Sheets-Sheet 1

Fig. 1.

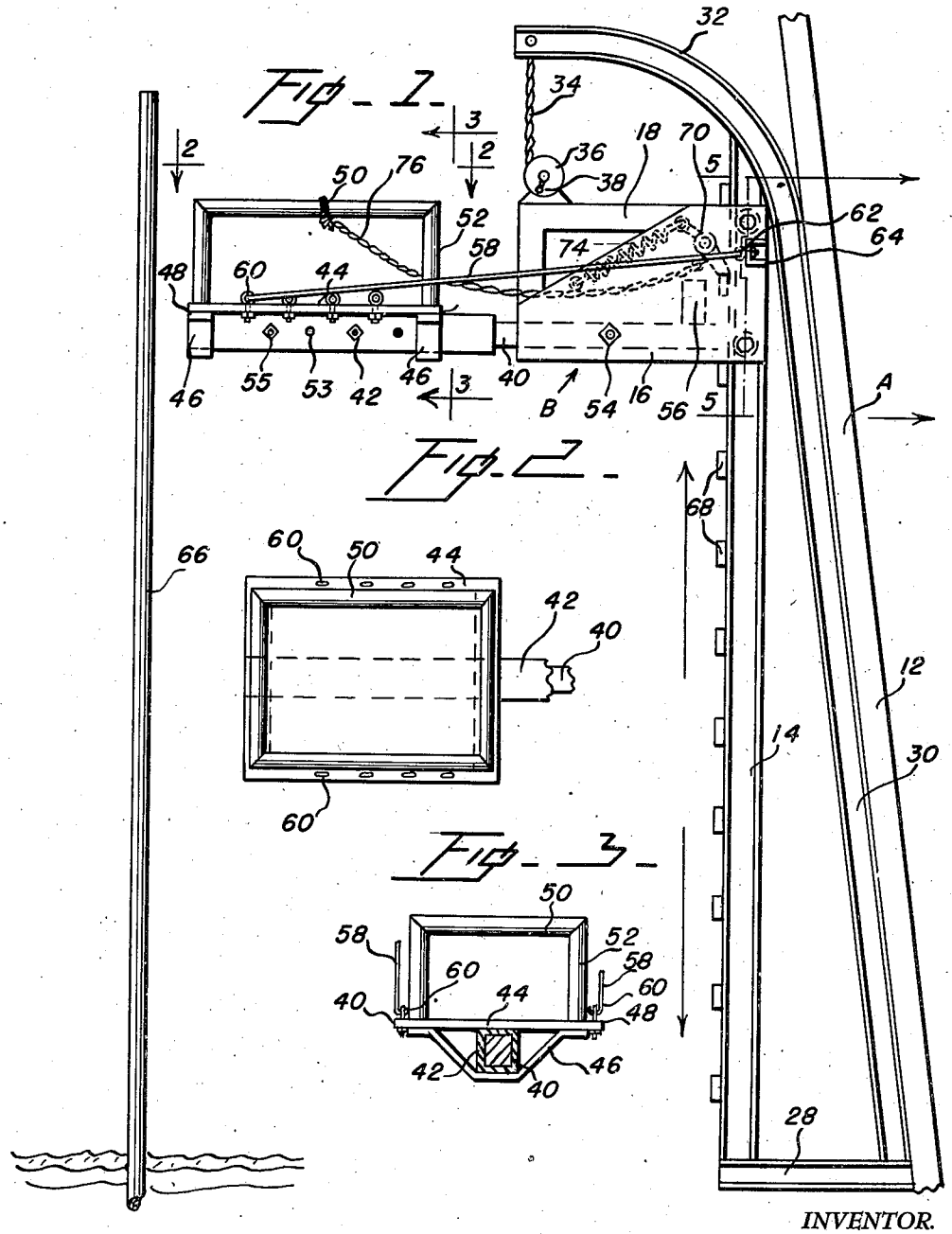

Fig. 2.

Fig. 3.

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Filed Nov. 16, 1945 2 Sheets-Sheet 2

Fig 4

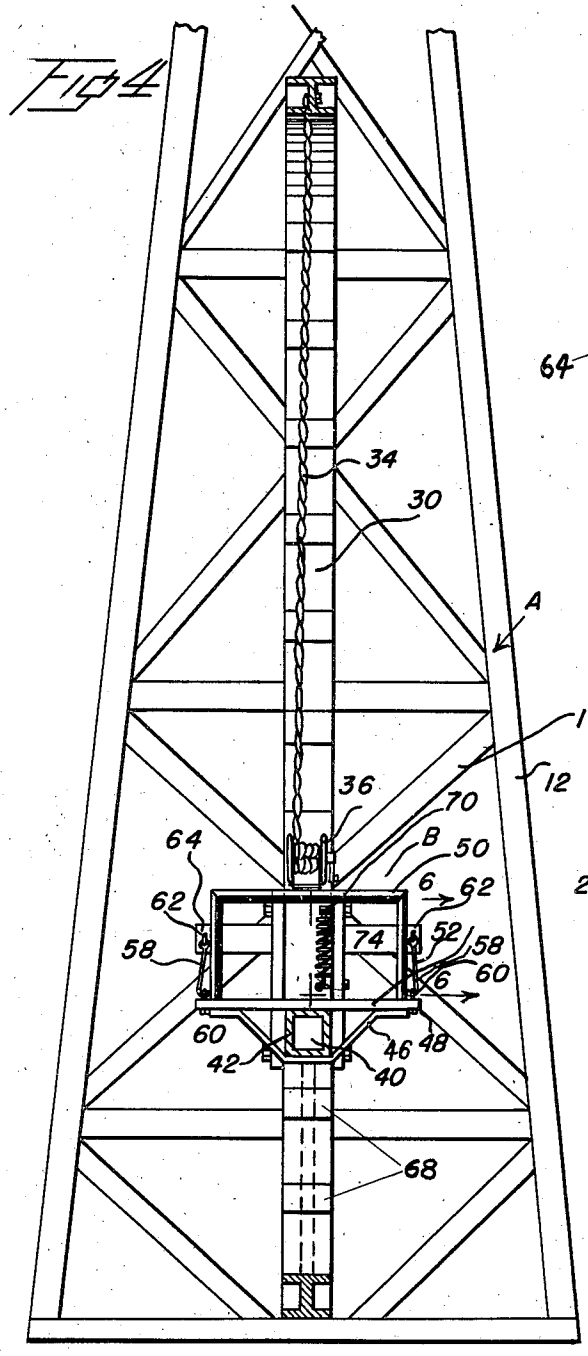


Fig 5

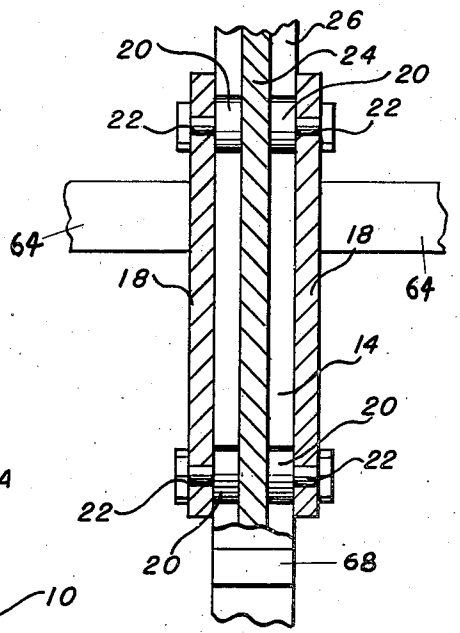
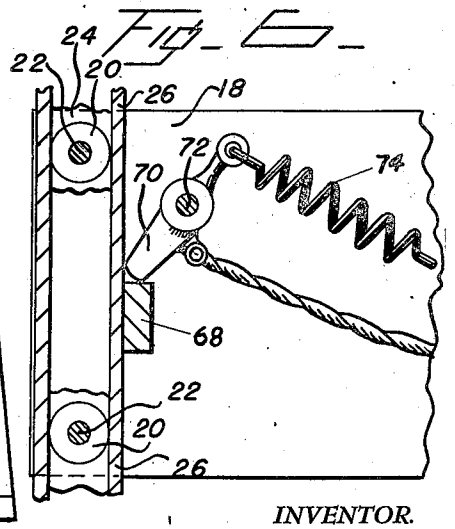


Fig 6



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2,425,302

SAFETY ADJUSTABLE PIPE STABBING BOARD

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3 Claims. (Cl. 304—14)

1

The invention relates to a handling board or platform, and more especially to an adjustable safety board or platform for handling tubing, piping or casing material for oil wells or the like.

The primary object of the invention is the provision of a board or platform of this character, wherein the drill string or casing sections for an oil well can be conveniently handled within the oil well derrick, either for the placing or pulling of the casings, tubing, sucker rods or drill pipes, and without liability of injury to a workman, the board or platform being of novel construction and unique in the arrangement thereof for the raising and lowering thereof.

Another object of the invention is the provision of a board or platform of this character, wherein its carriage is movable perpendicularly on a track, and the board or platform through swinging action can be swung vertically from a horizontal position and is therefore safe in the use thereof, and the carriage can be latched in a selected raised or lowered position on the track for servicing purposes.

A further object of the invention is the provision of a board or platform of this character, wherein the stabbing operation can be carried forth with ease and dispatch, and such platform or board is extended to a point adjacent to the axis of the well, thus giving the workmen close approach to the work and without interference by other mechanism of the oil well rigging.

A still further object of the invention is the provision of a board or platform of this character, which is simple in construction, thoroughly reliable and efficient in operation, strong, durable, readily and easily assembled within an oil well derrick, susceptible of adjustment with dispatch, and inexpensive to manufacture and install.

With these and other objects in view the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings, which disclose the preferred embodiment of the invention, and pointed out in the claims hereunto appended.

In the accompanying drawings—

Figure 1 is a fragmentary side elevation of an oil well derrick showing the board or platform constructed in accordance with the invention in association therewith.

Figure 2 is a top plan view on the line 2—2 of Figure 1.

Figure 3 is a sectional view taken on the line

2

3—3 of Figure 1, looking in the direction of the arrows.

Figure 4 is a front view taken of Figure 1 with parts in section.

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

Figure 6 is a sectional view on the line 6—6 of Figure 4.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings in detail, A designates generally a portion of an oil well derrick in which is arranged the board or platform denoted in its entirety at B, and hereinafter fully described.

The derrick A has connected to the girders 10, connecting its legs 12 a perpendicularly disposed I-beam 14 forming a track on which travels vertically a carriage 16, having the spaced side panels or cheeks 18, between which are horizontally journalled opposed upper and lower tracking rollers 20 by means of pins 22 which straddle the beam 14 and have trackage on the base and head flanges 24 and 26 respectively thereof, when the carriage 16 is moved upwardly and downwardly upon this beam in the use of the board or platform.

The hanger frame 28 for the beam 14 which is attached in any suitable manner to selected girders 10 of the derrick A, has built therewith a hoisting crane 30 which at the upper end 32 thereof is curved in overhanging relation to the path of the carriage 14, and to this end 20 is connected a raising and lowering cable 34, which is adapted to be wound on and unwound from a windlass 36 in bearing fittings on the side cheeks or panels 18 of the carriage 16, the windlass 36 being equipped with a hand crank 38 for the manual operation thereof, so that the carriage can be raised or lowered on the beam 14, as should be obvious from the drawings.

The carriage 16 at its bottom and centrally thereof has a horizontally positioned hanger rail 40 for an adjustable telescopic connection with a square shaped sleeve 42 secured to the board or platform 44, by means of the hangers 46 which are welded to the platform 44 at 48, which at the sides and ends thereof is fitted with a guard railing 50, supported by the corner uprights 52 as stated. The bottom of the board or platform 44 has the sleeve 42 secured centrally thereof which telescopically engages over the rail 40, which together with the sleeve are of square formation in cross-section to eliminate the turn-

ing of the said sleeve thereon when engaged with such rail and aligned openings **53** in rail **40** and sleeve **42**, receive bolts **55** to retain the sleeve in adjusted relation with the rail. The hanger **40** is pivotally mounted between the cheeks or panels **18** by means of the pin **54** and is held against lowering from horizontal position on its pivot **54** by a stop **56**, located in the carriage **16**. However said rail can swing upwardly from horizontal position, without interference by the stop **56**, when the platform or board **44** is not to be used.

The platform **44** is further strengthened in an extended or retreaded positions by a bar **58** one end of which is arranged to be received in eyes **60** on the platform or board **44** the other end of which is pivotally received in an eye **62** on laterally extended channel arms **64** welded to the panels **18** in diametrically opposed parallel relation with each other. The adjustment of the platform or board **44** allows it to be brought closer to or away from the work, a portion thereof being denoted at **66** within the derrick A, and this work in this instance is shown as a pipe or well casing.

On the head flange **26** of the beam **14** are vertically spaced racking projections **68**, while mounted within the carriage **14** is a spring tensioned ratchet acting dog or detent **70** supported in a horizontal pivot axle **72**, its tensioning spring being denoted at **74** and functions to normally hold the dog or detent in the path of the projections **68** for latching engagement therewith to prevent the lowering of the carriage on the track beam, yet permitting the said carriage to be raised by the hoisting cable **34** when the windlass **36** therefor is manually operated, the dog being controlled by the cable **76** fastened to the platform railing at some convenient location.

The board or platform **44** functions as a stabbing board against which rests the work during the disconnection operation of tubing, piping, drill string, casing or the like for an oil well. The platform or board **44** is usable for pulling or placing of tubing, piping, drill string, casing or the like from and in an oil well, without liability of workmen to injuries or damage to the work.

The free end of the platform or board **44** approaches the vertical axis of the derrick A, where the stabbing operation is usually carried forth and assumes a horizontal position when in use, but when not in use is raised vertically to an upright postiion out of the way.

What is claimed is:

1. A platform for an oil well derrick having horizontal girders, comprising a perpendicularly arranged I-beam forming a track secured within the said derrick, a carriage having traction rollers interfitting the beam for travel of the carriage thereon, a crane rising above the beam, a vertically swinging rail carried by the carriage, means for preventing the swinging of the rail downwardly below a horizontal plane, a platform assembly adjustably supported on the rail, and means for latching the carriage in a determined position vertically on the beam laterally extended channel arms secured to the rear of said carriage, and means secured to said arms and to said platform for aiding the rail in supporting said carriage.

2. platform for an oil well derrick having horizontal girders, comprising a perpendicularly arranged I-beam forming a track secured within the said derrick, a carriage having traction rollers interfitting the beam for travel of the carriage thereon, a crane rising above the beam, a vertically swinging rail carried by the carriage, means for preventing the swinging of the rail downwardly below a horizontal plane, a platform assembly adjustably supported on the rail, means for latching the carriage in a determined position vertically on the beam laterally extended channel arms secured to the rear of said carriage, and means secured to said arms and to said platform for aiding the rail in supporting said carriage, and means for raising and lowering the carriage on the beam.

3. A platform for an oil well derrick having horizontal girders, comprising a perpendicularly arranged I-beam forming a track secured within the said derrick, a carriage having traction rollers interfitting the beam for travel of the carriage thereon, a crane rising above the beam, a vertically swinging rail carried by the carriage, means for preventing the swinging of the rail downwardly below a horizontal plane, a platform assembly adjustably supported on the rail, means for latching the carriage in a determined position vertically on the beam laterally extended channel arms secured to the rear of said carriage, and means secured to said arms and to said platform for aiding the rail in supporting said carriage, means for raising and lowering the carriage on the beam, and a guard railing about the sides and one end of the platform assembly.

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