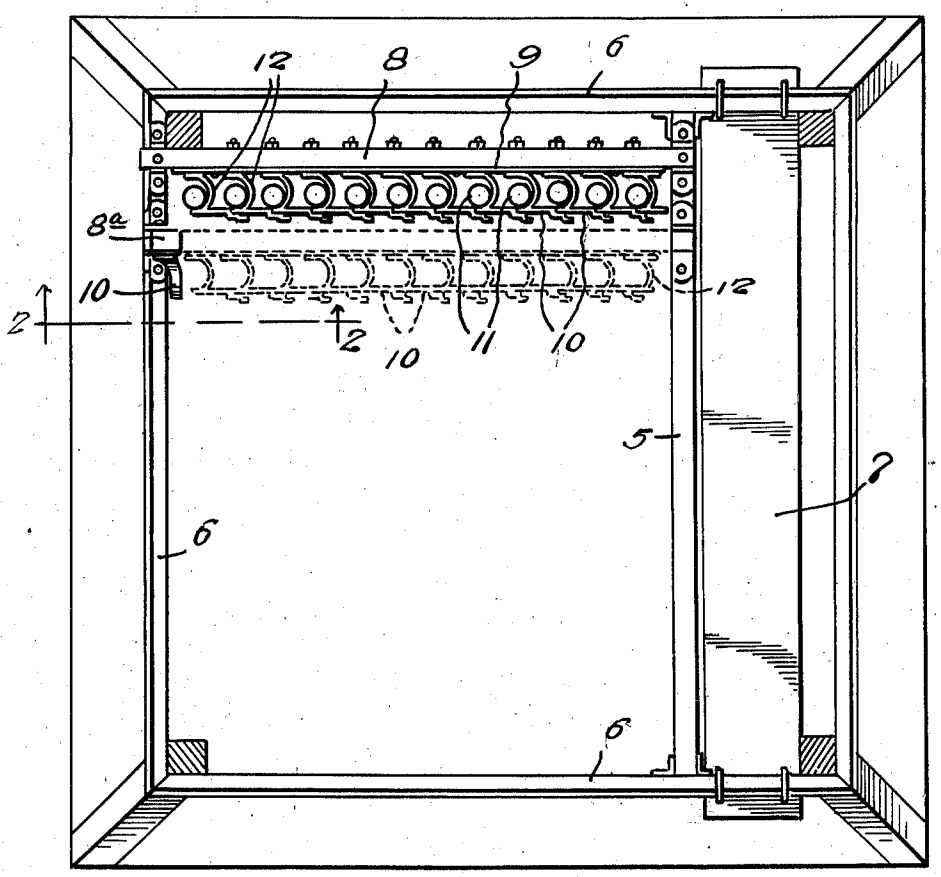
Feb. 21, 1939. J. D. CLARK 2,148,058

LAZY BOARD

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Fig. 1.



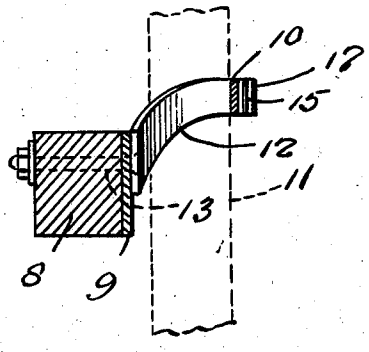


Fig. 4.

Inventor

J. D. Clark,

By J. Stanley Burch

Attorney

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LAZY BOARD

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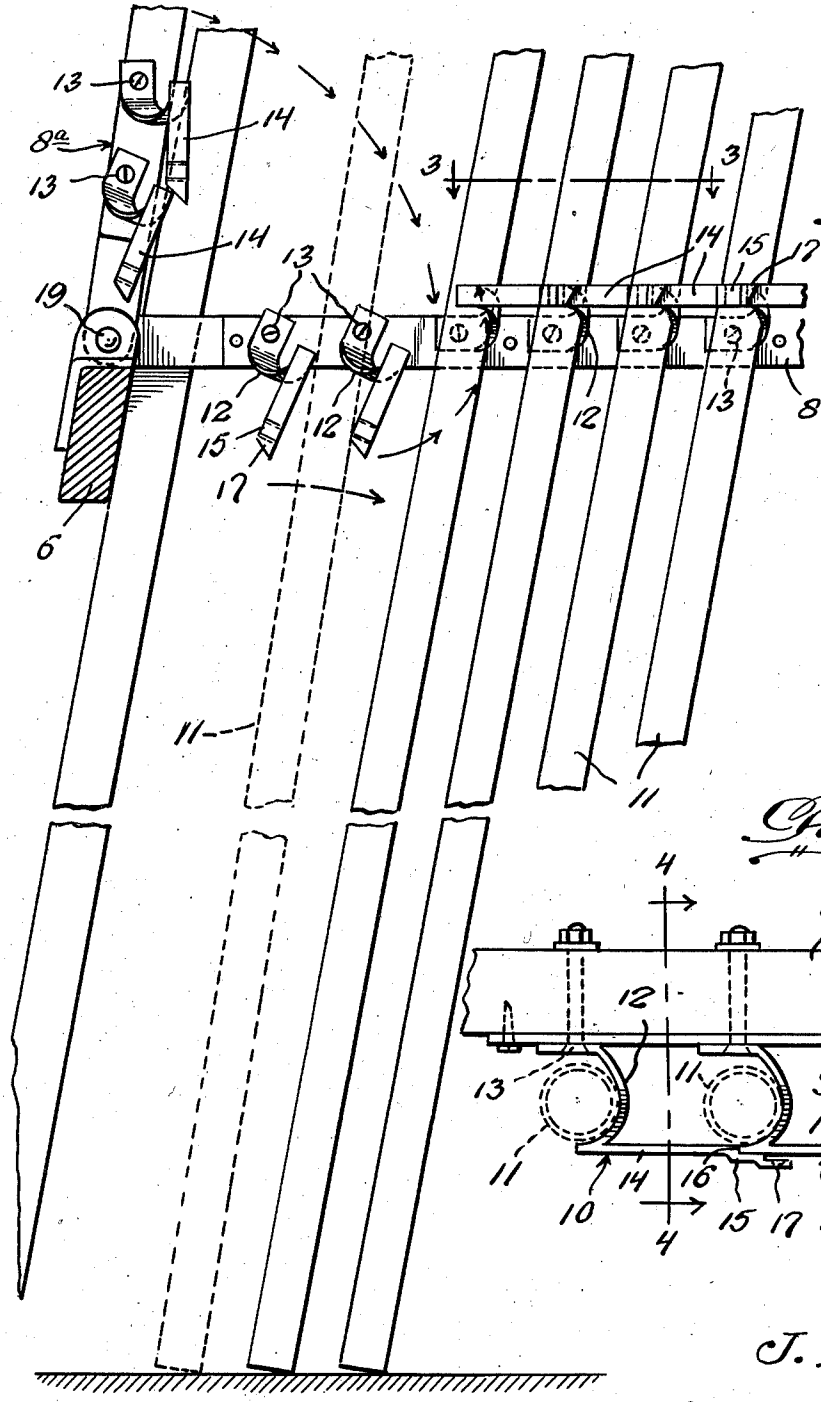


Fig. 2.

Fig. 3.

Inventor

J. D. Clark

By J. Stanley Burch

Attorney

Patented Feb. 21, 1939

2,148,058

UNITED STATES PATENT OFFICE

2,148,058

LAZY BOARD

J. D. Clark, Vernon, Tex., assignor to John D. Hoover, Guy Self, Roy C. Farrell, Aubrey L. Lockett, and R. E. Mason, all of Vernon, Tex.

Application March 28, 1938, Serial No. 198,610

5 Claims. (Cl. 211—60)

This invention relates to what is known in the art of well drilling and pumping as lazy boards, or devices for supporting within a derrick the sections of pipe, tubing or the like as they are disconnected and stacked in an upright position in the derrick so as to be arranged for convenient reconnection into a string to be lowered into the well.

An object of the present invention is to provide a lazy board which may be utilized in such number as to support in an upright position within a derrick as many sections of pipe or tubing as may be necessary in drilling or pumping the well, and which embodies novel means for holding the sections with great security so as to prevent them from accidentally falling or twisting, although permitting ready and intentional removal of said sections in their proper order for reconnection and use.

With the above and other objects in view, my invention consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawings and claimed.

In the drawings:

Figure 1 is a horizontal section of a derrick equipped with lazy boards in accordance with my invention.

Figure 2 is an enlarged fragmentary vertical section on the plane of line 2—2 of Figure 1, certain of the brackets or clips being shown in open position.

Figure 3 is an enlarged horizontal section on line 3—3 of Figure 2; and

Figure 4 is a vertical section on line 4—4 of Figure 3.

In carrying out my invention, I provide a transverse beam 5 within the derrick, parallel with and adjacent one side of the latter, and swung from opposite cross beams 6 of the derrick below the beam 5 and between the latter and the adjacent side of the derrick is a platform 7 forming a walk for a workman.

Supported at its ends by the beam 5 and the cross beam 6 of the derrick which is parallel therewith is a horizontal lazy board 8 to the inner side of which is secured a metal bar 9 having a series of brackets or clips 10 attached thereto adapted to receive and hold the upper end portions of the pipe or tubing sections 11 stacked in an upright position within the derrick. Each bracket or clip 10 includes an arcuate upwardly curved spring arm 12 conforming to the contour of the drill pipe or tubing 11 and pivoted at one end to the bar 9, as at 13, for vertical swinging movement. Integral with the outer end of and extending at right angles to the arm 12 is a rearwardly projecting arm 14 having its free end portion outwardly offset as at 15 to provide a transverse shoulder 16 arranged to abut the outer end of the curved arm 12 of the next bracket or clip 10 so that the brackets are effectively interlocked and securely held in horizontal operative position with adjacent brackets or clips defining a closed space in which a pipe or tubing section is positively held until manually released. The free end portion of the arm 14 has a beveled outwardly offset terminal 17 spaced from the adjacent end of the arm 14 of the next bracket and provided in its inner side with a recess 18 adapted to receive the end of a bar so that the latter may be used by a workman standing on the platform 7 to pry the free end of arm 14 outwardly and disengage the shoulder 16 of one bracket or clip from the next bracket or clip, thereby permitting said one bracket to swing down to open position so that the pipe section engaged with the arm 12 of said next bracket may be removed. The bracket or clip 10 are normally open as shown with respect to the two of them at the extreme left of Figure 2, and the pipe sections are engaged with said brackets or clips successively from right to left. When a pipe section is leaned against the arm 12 of a bracket, the latter is caused to swing upwardly to horizontal position, the shoulder 16 of the arm 14 of said bracket being snapped into engagement with the next bracket to the right thereof.

Additional lazy boards 8a similarly provided with brackets or clips may be provided parallel with the lazy board 8, but these must be hinged at one end as at 19 for vertical swinging movement so that they may be swung upwardly to a vertical position out of the way when not in use. For instance, when the tubing has been removed from the brackets of the lazy board 8a shown, the latter is swung to a vertical position at one side of the derrick as shown in Figures 1 and 2, so as to not interfere with engagement of tubing sections with or disengagement thereof from the brackets of lazy board 8. At the same time, the lazy board 8a may be swung downwardly to an operative horizontal position as shown by dotted lines in Figure 1 when required for use, the free end thereof resting on beam 5.

In practice, as many lazy boards with brackets may be provided as may be necessary to support the required number of pipe sections. The pipe sections are stacked in an inclined position to assist in holding the brackets or clips closed, and

to rest in the curved arms 12 out of engagement with the locking arms 14.

It will be apparent that the device is simple, durable and very efficient, as well as convenient to install and use. Minor changes in the details of construction shown and described may be resorted to without departing from the spirit and scope of the invention as claimed.

What I claim as new is:

1. In combination, a lazy board adapted for attachment to a derrick, and normally depending brackets, pivoted thereon against each of which a pipe in inclined position is adapted to be placed, the brackets being pivotally mounted on the lazy board to swing upwardly about a horizontal axis into interlocking relation in response to placing of pipes thereagainst.

2. In combination, a derrick, a lazy board mounted thereon, and a plurality of interlocking brackets pivoted on the lazy board, said brackets having arcuate arms for receiving pipes in upright position and locking arms for confining the pipes in said arcuate arms, the locking arm of each bracket having an outwardly offset end affording a transverse shoulder engageable with the arcuate arm of an adjacent bracket.

3. In combination, a derrick, a lazy board mounted thereon, and a plurality of interlocking brackets pivoted on the lazy board, said brackets having arcuate arms for receiving pipes in upright position and locking arms for confining the pipes in said arcuate arms, the locking arm of each bracket having an outwardly offset end affording a transverse shoulder engageable with the arcuate arm of an adjacent bracket, said brackets being resilient to permit release of said locking arms by prying the latter outwardly.

4. In combination, a derrick, a lazy board mounted thereon, and a plurality of interlocking brackets pivoted on the lazy board, each of said brackets having an arcuate arm pivoted at one end for swinging about a horizontal axis and a locking arm rigid with the other end of said arcuate arm and engageable with the next adjacent bracket for confining the pipe in the space between the arcuate arms of the adjacent brackets.

5. In combination, a derrick, a lazy board mounted thereon, and a plurality of interlocking brackets pivoted on the lazy board, each of said brackets having an arcuate arm pivoted at one end for swinging about a horizontal axis and a locking arm rigid with the other end of said arcuate arm and engageable with the next adjacent bracket for confining the pipe in the space between the arcuate arms of the adjacent brackets, the arcuate arms of the brackets being curved outwardly and upwardly to cause the brackets to swing upwardly into interlocking relation in response to placing of pipes thereagainst.

J. D. CLARK.