Dec. 14, 1926. 1,610,730

J. S. BALER

MILKING STOOL

Filed Dec. 18, 1925

Fig. 1.

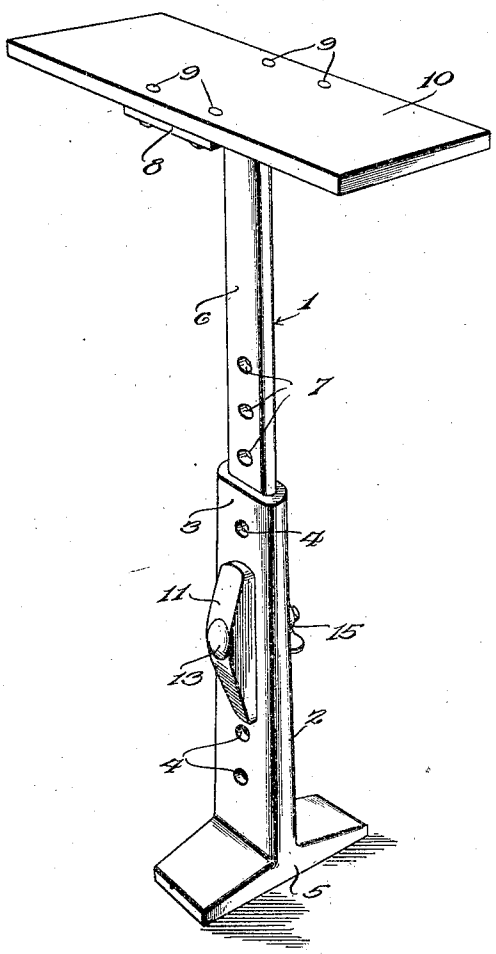


Fig. 2.

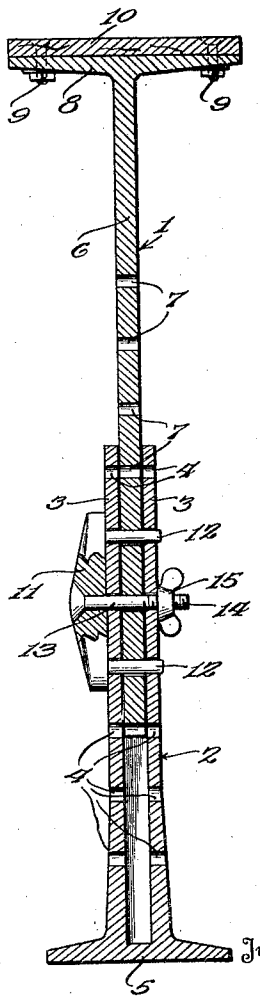
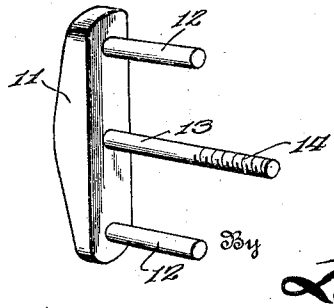


Fig. 3.



Inventor

J. S. Baler

By

Lacey & Lacey. Attorneys

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JOHN S. BALER, OF TETONIA, IDAHO.

MILKING STOOL.

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This invention relates to a stool of the type used when milking and one object of the invention is to provide a stool which may be vertically adjusted so that it may be conveniently occupied and a milk pail gripped between the knees held in the proper position with respect to the cow and the person milking the cow.

Another object of the invention is to form the standard of the stool with telescoping upper and lower sections which may be adjusted vertically and prevented from rotating one with respect to the other. This causes fastener receiving openings which are formed in the two sections of the standard to register as the two sections are moved longitudinally of each other and permits of a removable fastener which holds the sections in an adjusted position to be readily put in place.

Another object of the invention is to provide an improved type of fastener including a plurality of pins which pass through alined openings of the two sections and a securing stem to releasably hold the fastener in place, the stem and pins serving to very securely hold the upper section of the standard in the desired elevated position and reducing to a minimum the danger of the fastener being bent or broken.

This invention is illustrated in the accompanying drawing, wherein

Figure 1 is a perspective view of the improved stool;

Fig. 2 is a vertical sectional view through the stool, and

Fig. 3 is a perspective view of the fastener by means of which the upper section is secured in a vertically adjusted position.

The standard of the stool is formed in two sections, one of which is indicated in general by the numeral 1 and may be termed the upper section and the other of which is indicated in general by the numeral 2 and may be termed the lower section. The lower section 2 is hollow and, therefore, constitutes a sleeve which is substantially rectangular in cross section and has its opposed flat sides 3 formed with alined openings 4. At its lower end the section 2 is formed with a base 5 which closes the lower end of the sleeve and projects from the sides 3. The lower section is, therefore, provided with an enlarged base, the under face of which is flat so that the stool will rest firmly upon the ground and is prevented from being forced into the ground by the weight of the person occupying the stool.

The upper section 1 is in the form of a solid bar 6 which in cross section conforms to the contour of the sleeve and has a snug sliding fit therein. In view of the fact that the sleeve and bar 6 are non-circular in cross section, the bar is prevented from having rotary movement in the sleeve and, therefore, its openings 7 will at all times be so disposed that they may be moved into registry with selected openings 4 of the sleeve by sliding the bar longitudinally in the sleeve. From an inspection of Fig. 2, it will be seen that the openings 4 and 7 are spaced an equal distance apart longitudinally of the sleeve and bar and, therefore, when the upper section is vertically adjusted the openings in its portion disposed in the sleeve will all register with cooperating openings of the sleeve. At its upper end the bar 1 which may be termed a shank if so desired carries a head 8 which projects from opposite sides of the shank and has its corner portions formed with openings to receive bolts 9 by means of which a seat board 10 is securely but removably fastened upon the head. In view of the fact that bolts are employed to secure the seat, it can be readily removed and a new one substituted if it should become broken.

The fastener by means of which the upper section is retained in a vertically adjusted position is illustrated in Fig. 3. This fastener is formed with an elongated block or head 11 adapted to be disposed longitudinally of the sleeve or lower section 2 of the standard in flat contacting engagement with one of the sides 3 thereof. This block is of sufficient length to span three of the openings 4 and adjacent its upper and lower ends is provided with pins 12 of such length that they may pass entirely through the sleeve when the fastener is in use. These pins serve not only as means to support the upper section but also serve to retain the block in the proper position with respect to the sleeve. A stem 13, which may be formed integral with the head or consist of a bolt passed through an opening in the head, projects from the head between the pins 12 and parallel thereto. The stem is of greater length than the pins 12 and has its free end portion threaded, as shown at 14, for the reception of a nut 15. The stem is of such length that when the fastener is

in place its threaded end portion projects from the sleeve of the lower section, and it will be apparent that when the securing nut 15 is screwed upon the stem the fastener will be firmly held in place. When the fastener is in place and secured by the nut, the stem 13 and the pins 12 all pass through openings in the bar or shank 1 of the upper section and, therefore, the upper section will be well supported. It should be further noted that since a plurality of fastener elements project through the bar 6 the entire strain will not be received by a single pin and, therefore, there is no danger of the pins being bent or broken by pressure resulting from the weight of the person occupying the stool.

Having thus described the invention, I claim:

1. A stool including a standard comprising upper and lower sections overlapped and slidable longitudinally of each other, said sections being formed with openings spaced an even distance apart longitudinally thereof, the openings of one section being selectively movable into registry with openings of the other section as the first section is moved longitudinally of the other section, and a fastener comprising a block fitted against one section and extending longitudinally thereof, upper and lower pins extending from said block through registering openings of said sections, and a stem extending from said block between said pins and passing through registering openings of said sections and releasably secured.

2. A stool including a standard comprising upper and lower sections, one formed as a sleeve having opposed flat walls and the other in the form of a flat-sided bar snugly fitting in said sleeve and slidable longitudinally therein, said sleeve and bar being formed with transverse openings spaced an even distance from each other longitudinally of the bar and sleeve and adapted to be selectively brought into registry as the bar and sleeve are moved longitudinally of each other, and a fastener comprising a block disposed at one side of said sleeve longitudinally thereof, upper and lower pins extending from said block through registering openings of the sleeve and bar, a center pin extending from said block through registering openings of the sleeve and bar and projecting from the opposite side of the sleeve, and a securing nut upon the extended end of said center pin.

3. A stool comprising a base, a sleeve extending upwardly from said base, a head, a shank depending from said head and telescoping into said sleeve, said sleeve and shank being flat-sided to prevent rotation of the shank in the sleeve and said sleeve and shank being formed with openings spaced an even distance apart longitudinally of the sleeve and shank and adapted to be selectively brought into registry by vertical sliding of the shank, and a fastener separable from said sleeve and including a block adapted to be disposed longitudinally of said sleeve in engagement with one side thereof, upper and lower pins extending from said block and passed through registering openings of the sleeve and shank, an intermediate pin extending through registering openings of the sleeve and shank between the upper and lower pins and having a threaded free end portion projecting from the sleeve at the opposite side thereof from said block, and a securing nut screwed upon the projected end portion of said threaded pin to removably retain said fastener in place.

In testimony whereof I affix my signature.

JOHN S. BALER. [L. S.]