O. A. HARRIS.

STOOL.

APPLICATION FILED MAR. 13, 1917.

1,270,729. Patented June 25, 1918.

Fig. 1.

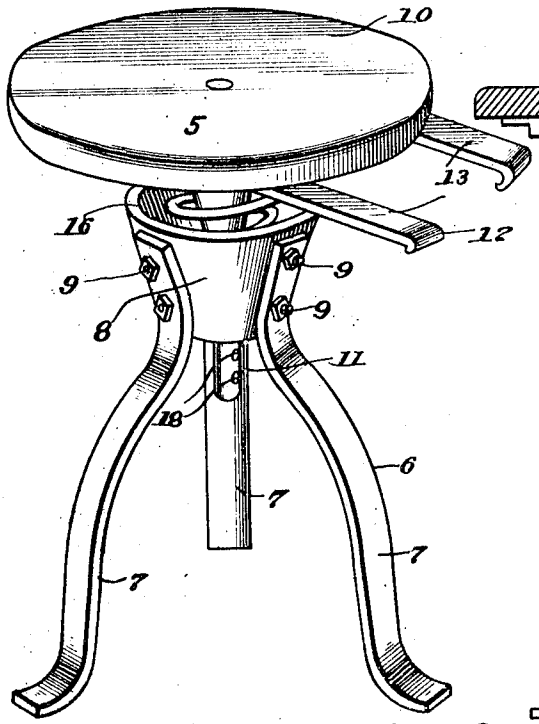


Fig. 2.

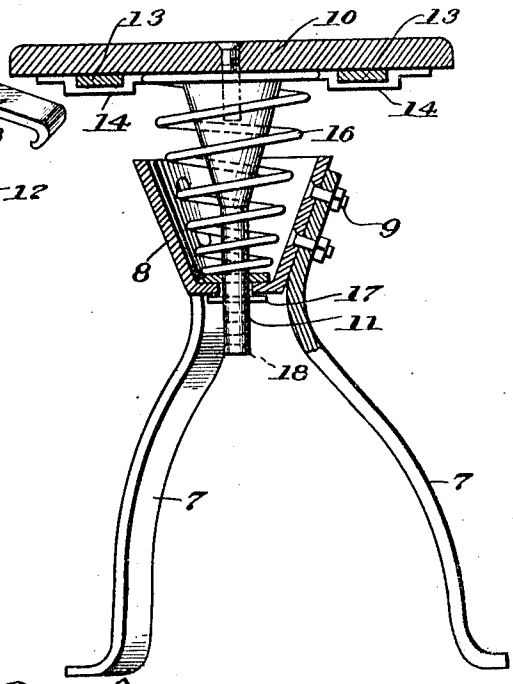


Fig. 3.

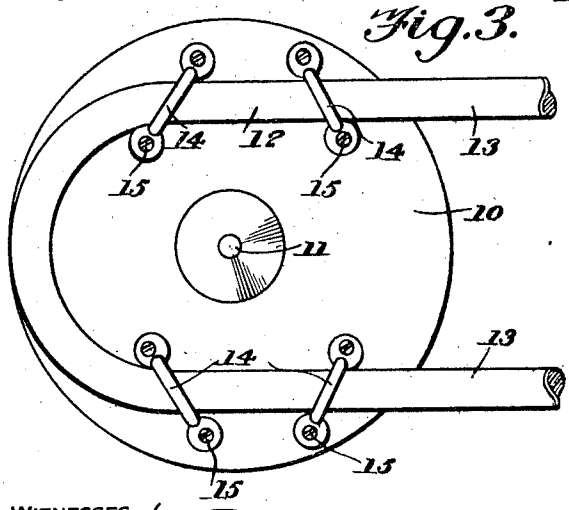
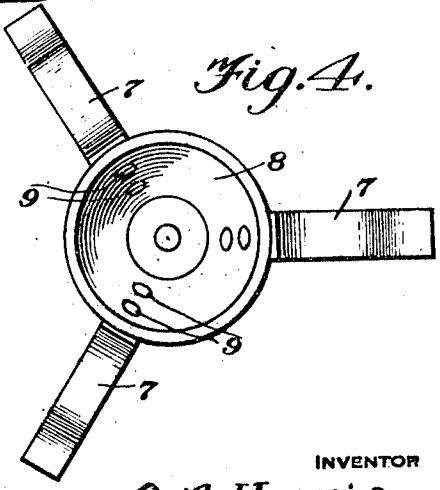


Fig. 4.



WITNESSES

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STOOL.

1,270,729. Specification of Letters Patent. Patented June 25, 1918.

Application filed March 13, 1917. Serial No. 154,548.

To all whom it may concern:

Be it known that I, ORLAN A. HARRIS, a citizen of the United States, residing at Long Prairie, in the county of Todd and State of Minnesota, have invented new and useful Improvements in Stools, of which the following is a specification.

The present invention relates to stools, and more particularly to a milking stool.

The primary object of the invention resides in the production of a stool of the above stated character wherein the stool seat is resiliently connected above its base, whereby the occupant may conveniently arrange the seat at any desired angle with respect to said base, immaterial of the conditions of the ground surface.

Furthermore, I contemplate in providing a novel type of stool wherein the seat is rotatably connected with the base affording convenience to the user in first revolving the seat in a direction from the cow, in order to prevent the contact of the pail with the cow upon rising from said seat.

With the above and other objects in view, the invention consists in the novel features, details of construction and combination of parts which will hereinafter be more fully set forth, illustrated in the accompanying drawing and pointed out in the appended claim.

Figure 1 is a perspective view of the stool;

Fig. 2 is a vertical sectional view;

Fig. 3 is a bottom plan view of the seat; and

Fig. 4 is a plan view of the base.

Referring more particularly to the accompanying drawing, in which like characters of reference refer to corresponding parts in the several views, 5 denotes the stool generally, and preferably adapted to be used as a milking stool, but I desire to have it understood that I do not limit myself to the precise use of the stool, as the same can be adapted for use as a desk stool, counter stool or the like.

In order that a clear understanding of the invention may be had, the stool 5 is illustrated for milking purposes, comprising a base 6 consisting of a plurality of legs 7 to which a pedestal 8 is rigidly connected through the employment of a screw and bolt connection, denoted by the character 9. This pedestal 8 is of substantially hollow frusto-conical form, and is secured between the upper confronting surfaces of the legs, assuming a vertical upright position. 10 designates the seat of the stool of circular form, and provided on its under surface with a depending shaft 11, the lower end of which is of substantially circular form in cross section, while the upper extremity of the shaft is of conical formation. The purpose of the specific construction of shaft will be hereinafter set forth as the description of the invention is proceeded with.

Mounted on the under side of the seat 10 for horizontal sliding movement is a U-shaped holder 12, the limbs 13 thereof passing through guides 14. These guides 14 are mounted on the under face of the seat 10 and secured thereto by fasteners 15, and converging in a direction toward the center of the stool to cause the holder to frictionally bind in the guides and prevent any loose movement thereof with respect to the seat, hence after the holder is once adjusted to the proper position with respect to the seat any acidental sliding movement of the same is prevented.

I employ in connection with a stool of the above stated character, a resilient volute spring indicated by the character 16 which serves to retain the seat at the desired angle wih respect to the base, consequently the occupant or party seated upon the stool will retain an upright position, more especially when the stool is placed or reposed upon an unlevel surface. To this end, after the reduced circular lower end of the shaft of the stool is projected through the contracted lower end of the pedestal with the volute spring 16 encircling said shaft, the lower reduced end of the spring contacts with the pedestal, while the enlarged convolute of the spring engages with the bottom surface of the seat. This manner of positioning the spring 16 to the stool will not only facilitate the seat being retained at the desired angle with respect to the base, but furthermore rotatably supports the seat on the base, affording convenience to the occupant, after the milking operation is completed, to revolve the seat in order that the pail of milk supported upon the holder 12 will not be overturned by the contact of the same with the cow. In order to prevent any accidental displacement of the shaft from the pedestal, I employ a cross pin 17 which extends

through suitable openings 18 formed in the lower end of the shaft of the stool, and inasmuch a series of these openings are formed in the shaft, the seat may be adjusted vertically with respect to the base for effecting the different heights of the stool.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of construction and the method of operation will be readily apparent to those skilled in the art to which the invention relates, and while I have described the principles of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the appended claim.

Having thus described the invention, what is claimed as new, is:—

A stool of the character set forth, comprising legs, a hollow frusto-conical pedestal secured to and between the confronting faces of the legs and having an apertured bottom, a shaft secured to the seat and depending therefrom, the upper end of the shaft conforming to the contour of the pedestal and the lower end being provided with a series of apertures and of substantially circular form in cross section, the circular portion of the shaft loosely protruding through the opening in the bottom of the pedestal, means passing through the openings of the shaft for effecting the vertical adjustment thereof, and a spring embracing the shaft and contacting at one end with the seat and at its opposite end with the bottom wall of said pedestal, and adapted to arrange the seat at any desired angle with respect to said base irrespective of the conditions of the ground surface.

In testimony whereof I affix my signature.

ORLAN A. HARRIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D.C."