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ADJUSTABLE STOOL

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Fig. 1.

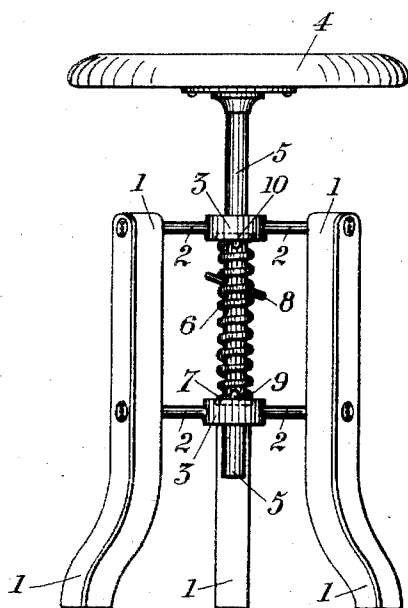
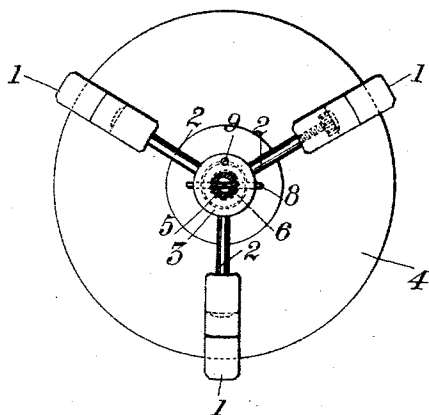


Fig. 2.



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ADJUSTABLE STOOL.

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The present invention relates to a stool, the seat of which is carried by a rod, rotatably mounted on a frame and being adjustable in height relative to the latter.

5 This stool differentiates from known constructions, in that a helical spring is arranged in the frame and surrounds said rod, said rod having at least one projection wedged between the coils of the spring and
10 by means of which the seat portion rests upon said spring and is carried by the latter, so that by turning the seat it is raised or lowered relatively to the frame, as the projection follows the coils of the spring.

15 The annexed drawing shows a preferred embodiment of the invention, in which Fig. 1 is a side view and Fig. 2 an inverted plan of Fig. 1. The frame consists of a wooden tripod 1, the feet of which are held together
20 by two metallic bearers, each consisting of three-cylindrical arms 2, connected to a ring 3. Between the two rings 3 is arranged a helical spring 6, the lower end 7 of which is bent back and fixed to the lower ring, in
25 order to prevent said spring from rotating while the upper end of the spring rests freely against the nether side of the upper ring.

The upper part of the stool comprises a wooden disk or seat 4, fixed to the upper
30 end of a rod 5, which slides in both rings 3 thus being kept in the axis of the spring 6; a pin 8 traverses the rod 5, and rests with its projecting ends on a coil of the spring, the position of the pin 8 being inclined to the
35 axis of the rod according to the pitch or gauge of the spring. In this manner the spring carries the upper rotatable seat portion of the stool.

By turning the seat, the latter will be
40 raised or lowered according to the direction of rotation, the projections of the pin 8 following the coils of the spring.

Two fingers 9 and 10 serve as stops for the pin 8, thus preventing said pin from engaging between the end of the spring and one
45 or the other of the rings 3 thereby limiting the rotary motion of the seat, and preventing further motion in the direction of the axis.

The stool described has the main advantage of being resilient, said resiliency depending on the number of coils of the spring below the pin 8.

The person sitting has, in this way a comfortable and not very tiring seat, which is appreciable when sitting for a long time.

The manipulation of the stool is very easy, the wear of the working parts, such as pin 8, rod 5, spring 6 and rings 3, is almost nil and very little oiling is necessary for an
60 easy rotation.

What I claim is:

1. In an adjustable stool, a seat, a rod bearing said seat, and slidably arranged in two rings, a frame supporting said rings, a
65 helical spring surrounding said rod and arranged between said rings, one end of said spring fixed to one of said rings, said rod having a projection resting on a coil of the spring, thus permitting of the adjustment of
70 the height of the seat by turning same.

2. In an adjustable stool, a seat, a rod bearing said seat and slidably arranged in two rings, a frame supporting said rings, a
75 helical spring surrounding said rod and arranged between said rings, one end of said spring being fixed to one of said rings, a pin traversing the rod, resting with its projecting ends on a coil of the spring and being inclined to the axis of the rod accord-
80 ing to the pitch of said spring.

3. In an adjustable stool, a seat, a rod bearing said seat and slidably arranged in two rings, a frame supporting said rings, a
85 helical spring surrounding said rod and arranged between said rings, one end of said spring being fixed to one of said rings, a pin traversing the rod, resting with its projecting ends on a coil of the spring and being
90 inclined to the axis of the rod according to the pitch of said spring, a stop for said projections fixed to each of said rings for preventing wedging said pin between the end of the spring and one of the rings.

In testimony that I claim the foregoing as my invention I have signed my name.

ALBERT SCHMID.