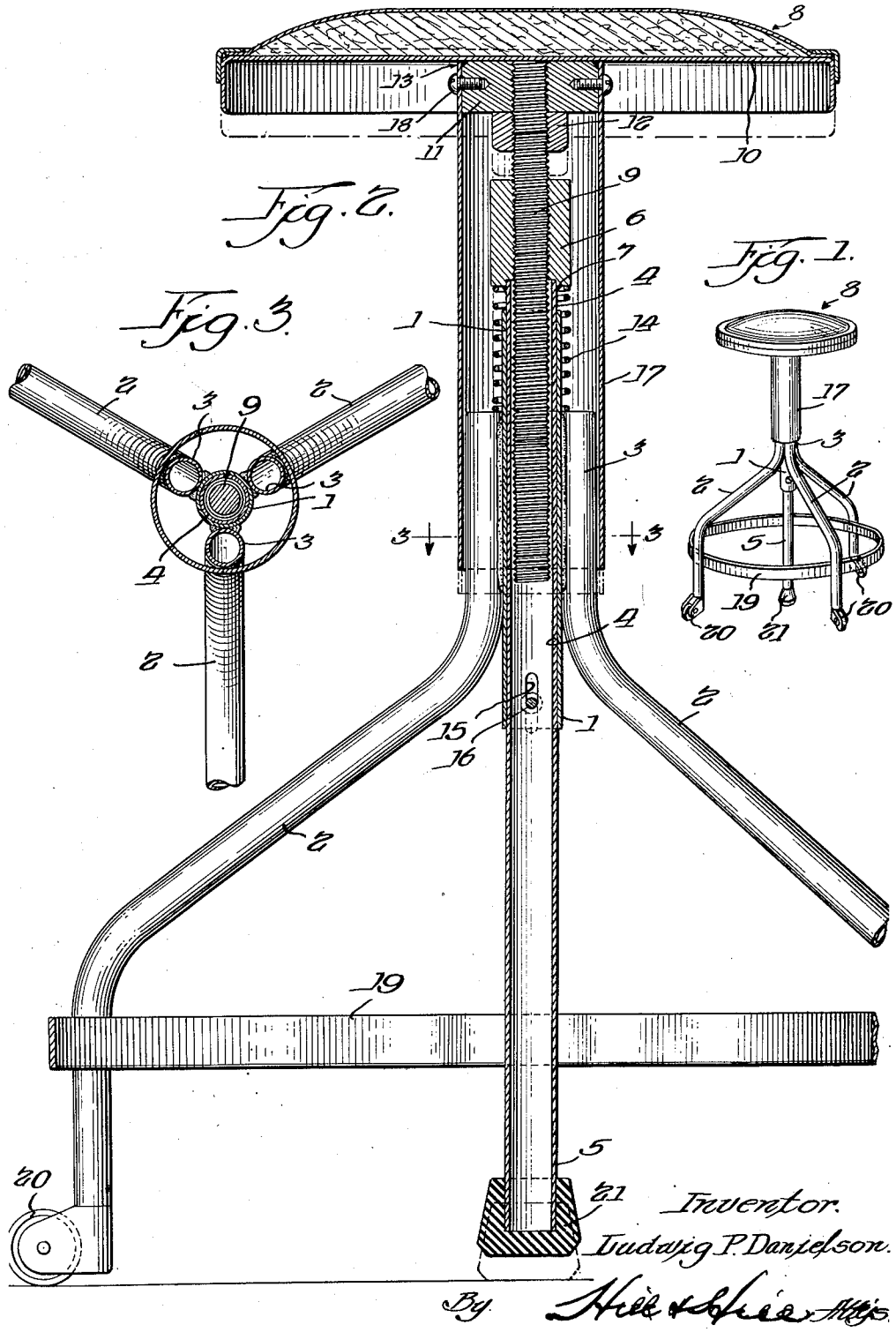
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STOOL

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STOOL

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7 Claims. (Cl. 155—88)

1

My invention belongs to the general class of devices known as stools, chairs or furniture, and relates particularly to a stool or chair particularly adapted for use by dentists, beauticians, barbers, bench workers and the like.

A further object is the production of a stool which is adjustable up or down, is provided with a seat which may swivel and has casters or rollers so that the same may be easily pushed about. The same is provided with anchoring means or a brake, whereby the stool will be anchored and can not be easily movable on the floor when occupied. However, in the preferred embodiment of the invention it may be adjusted as to height, or the seat may be swiveled even when the stool is anchored on the floor.

Another object of the invention is the production of an adjustable stool or the like provided with efficient braking or anchoring means which will operate automatically when the stool is occupied and which will remain anchored until vacated, whereupon the same may be readily rolled about as desired.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosure herein given.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein like reference characters indicate like or corresponding parts:

Fig. 1 is a perspective view of the stool embodying the invention;

Fig. 2 is a sectional view taken through the same illustrating the preferred construction; and

Fig. 3 is a sectional view taken substantially on line 3—3 of Fig. 2.

As illustrated, 1 represents a tubular sleeve and 2 legs or floor engaging members affixed thereto to form a base for the stool, it being understood that there may be three or more legs, the upper ends 3 of which are bent upwardly and rigidly secured to the sleeve 1, either by welding or any other suitable manner. The lower ends are spread to provide greater stability. Arranged within the tubular sleeve 1 is an inner sleeve 4 providing an additional leg member or floor engaging member which extends above and below the tubular sleeve 1, the lower portion 5 of which is sufficiently long to reach to the floor, as indicated in Fig. 2 and provide a brake or anchor. Secured to the upper end of the sleeve 4 is an internally threaded member 6 which is welded or

2

otherwise rigidly secured to 4 as indicated at 7.

The stool is provided with a seat designated generally by the reference character 8 which is secured to a threaded rod or spindle 9 arranged to threadedly engage with the member 6. As illustrated in Fig. 2, suitably secured to the seat bottom 10 is a block 11 into which the rod 9 is threaded, a lock nut 12 securely retaining the seat 8 and rod 9 assembled. The block 11 may be secured to the bottom of the seat 10 in any suitable manner, for example, when 10 is of metal, 11 may be spot welded to 10 as indicated at 13.

Arranged between the threaded member 6 and the ends 3 of the leg portions is a coiled spring 14 which tends to normally move the seat upwardly to the position shown in Fig. 2 when the same is not occupied.

In order to limit the relative telescoping movement between sleeves 1 and 4, as well as to prevent the rotation of the inner sleeve 4 in the tubular sleeve 1, one of the sleeves, as shown the inner sleeve 4, is provided with an elongated slot through which passes a pin 16 extending through and affixed to the tubular sleeve 1.

To add to the attractiveness of the device, I prefer to provide a sleeve 17 enclosing the upper ends 3 of the legs, the spring 14, member 6 and nut 12, which sleeve may be suitably secured to the member 11 by means of screws 18 or their equivalents or welded directly to 11. In order to strengthen the construction a ring 19 may be provided, as shown, secured to the legs, the same not only making the structure more rigid, but it also may be used as a foot rest by the one occupying the stool. There are also provided casters 20 of suitable type which support the structure and permit the same to be readily and easily rolled or pushed about as desired.

As shown in Fig. 2, the lower end 5 of sleeve 4, which in fact is an extra leg for anchoring purposes, is provided with a rubber or like foot 21 which will frictionally engage the floor when the seat 8 is occupied.

As shown in Fig. 2 in the full lines, the seat 8, not being occupied, is elevated by spring 14 and the foot 21 is off the floor. When a person occupies the seat the rod 9 is moved downwardly, moving the member 6 and with it the inner sleeve 4 downwardly, at the lower end of which is the foot 21. The stool is now anchored or braked so that it does not readily roll on the casters 20. If the seat 8 is rotated the threaded rod 9 will cause it to raise or lower, depending upon the direction of turning of the seat. When the seat 8 is occupied, the threaded rod 9 and member 6

wil be pushed down as indicated in dotted lines in Fig. 2, compressing the spring 14. When the stool is vacated the spring 14 will automatically raise the seat, raising the foot 21, so then the stool 21 may be pushed here or there as desired.

Obviously, the stool parts may be so designed as to bring the seat the desired distance from the floor when the same is not occupied, it being possible to raise the same by rotating it as mentioned. While the seat is shown as circular, it may be any desired shape, or provided with a back and arms, etc., (not shown) the particular construction of the seat being immaterial so far as the present invention is concerned.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence, I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described, or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

1. In a stool of the kind described and comprising in combination, a base including a tubular sleeve and a plurality of legs rigidly secured thereto, a seat, supporting means for the seat including an inner sleeve telescoping in the tubular sleeve and of a length to extend to and engage the floor when the seat is occupied, and means for automatically raising the seat and inner sleeve when the seat is vacated.

2. In a stool of the kind described and comprising in combination, a base including a tubular sleeve and a plurality of legs rigidly secured thereto, a seat, adjustable supporting means for the seat including an inner sleeve telescoping in the tubular sleeve and of a length to extend to and engage the floor when the seat is occupied, means for limiting the telescoping movement of the inner sleeve in the tubular sleeve and preventing relative rotation of the same, and means for automatically raising the seat and inner sleeve when the seat is vacated.

3. In a stool of the kind described and comprising in combination, a base including a tubular sleeve and a plurality of legs rigidly secured thereto, a seat, means for supporting the seat including an inner sleeve telescoping in the tubular sleeve and of a length to extend to and engage the floor when the seat is occupied, a threaded member at the upper end of said inner sleeve, a threaded rod secured to the seat and extending through the threaded member, and means for automatically raising the seat and inner sleeve when the seat is vacated.

4. In a device of the kind described and comprising in combination, a tubular sleeve, a plurality of legs spread at their lower ends with the upper ends bent inwardly and secured to said tubular sleeve, the sleeve extending above and below the juncture of the legs and sleeve, an inner sleeve slidably arranged within said tubular sleeve and of a length to project above and below the tubular sleeve, an internally threaded member rigidly secured to the upper end of the inner sleeve, a threaded rod threaded into said member and of a length to extend through and above the same, a seat secured to the upper end of said threaded rod, the lower end of said rod depending into the inner sleeve and slidable therein, a coiled spring arranged on said tubular sleeve between said threaded member and the upper ends of said legs, means for preventing relative rotation of the tubular sleeve and inner sleeve and limiting the relative longitudinal movement of the same, said inner sleeve constituting an additional leg movable downwardly to engage the floor when the seat member is occupied.

5. In a device of the kind described and comprising in combination, a tubular sleeve, a plurality of legs spread at their lower ends with the upper ends bent inwardly and secured to said tubular sleeve, the sleeve extending above and below the juncture of the legs and sleeve, an inner sleeve slidably arranged within said tubular sleeve and of a length to project above and below the tubular sleeve, an internally threaded member rigidly secured to the upper end of the inner sleeve, a rod threaded into said member and of a length to extend through and above the same, a seat secured to the upper end of said threaded rod, the lower end of said rod projecting into the inner sleeve and slidable therein, a coiled spring arranged on said tubular sleeve between said threaded member and the upper ends of said legs, means for preventing relative rotation of the tubular sleeve and inner sleeve and limiting the relative longitudinal movement of the same, said inner sleeve constituting an additional leg movable downwardly to engage the floor, and a shell carried by the seat for enclosing the threaded member, rod and spring.

6. A stool including in combination a base comprising floor engaging members, a seat having an additional floor-engaging member depending therefrom, said seat being mounted on said base and said additional floor-engaging member being of sufficient length to engage the floor upon said seat being occupied, and biasing means mounted on said base for automatically raising said seat and said additional floor-engaging member upon said seat being vacated.

7. A stool including in combination a base comprising a plurality of peripherally spaced leg members having rollers or casters on the floor engaging ends thereof, a seat having an additional leg member depending therefrom, said seat being mounted on said base and said additional leg member being of sufficient length to engage the floor upon said seat being occupied, and biasing means mounted on said base for automatically raising said seat and said additional leg member upon said seat being vacated, said additional leg member serving as a brake for the stool thus comprised upon said seat being occupied.

LUDWIG P. DANIELSON.

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