

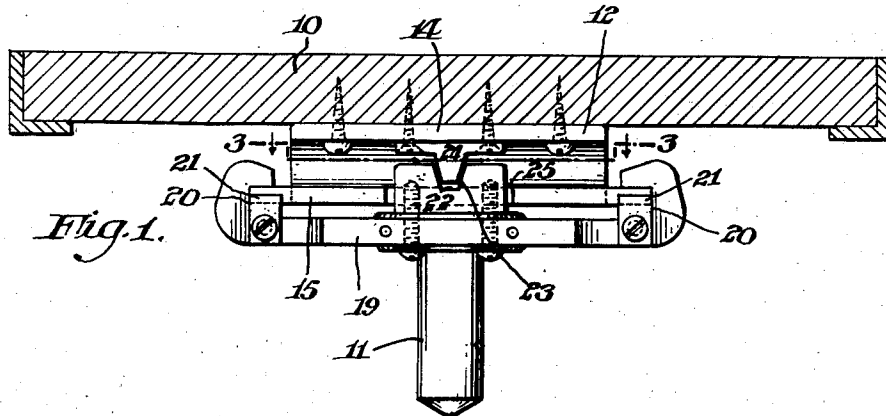
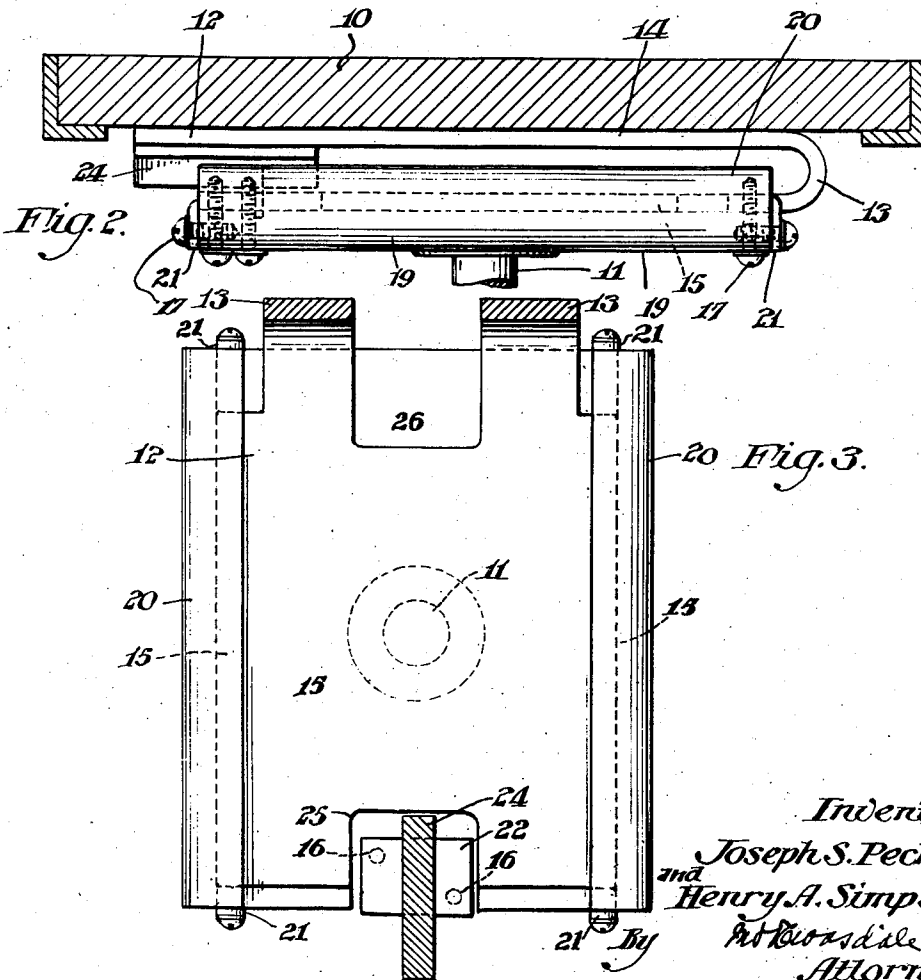
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ADJUSTABLE SEAT SUPPORTING DEVICE

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ADJUSTABLE SEAT SUPPORTING DEVICE

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1 Claim. (Cl. 155—115)

Our invention relates to adjustable seat supporting device and is especially applicable to stools or chairs used at lunch counters.

The device is especially adapted for use with seats of such stools or chairs which have a swivel connection with a fixed post or pedestal or other suitable supporting structure.

The object of the invention is to provide adjustable seat supporting means adapted to be applied to standard stools or chairs without any change in the main structure thereof.

The object is also to provide improved adjustable seat supporting means adapted to be applied to any chair or stool, no matter how built.

The purpose of the invention is to provide means to facilitate the adjustable movement of the seat toward or away from the counter to accommodate customers differing in size, so that the individual customer may be seated at a distance from the counter which may be most convenient and comfortable.

The invention also comprises means whereby the stool or chair may be moved into said desired position and then locked in said position as long as the seat is occupied.

Referring to the drawing, which illustrates merely by way of example the preferred embodiments of the invention:

Fig. 1 is a front elevation showing the invention.

Fig. 2 is a side elevation of same.

Fig. 3 is a horizontal section on line 3—3 of Fig. 1.

Similar numerals refer to similar parts throughout the several views.

As shown, especially in Fig. 1, the seat member 10 is usually of wood, but may of course be made of any other suitable material. In accordance with the present invention the swivel post 11, which is usually provided with a flange for attachment to the underside of the seat member, is detached therefrom, and the improved adjusting mechanism is secured to the underside of said seat member 10, in place of said flange.

In the arrangement shown in Figs. 1, 2 and 3, the upper extension of a two-leaf spring member 12 is attached, in any suitable way, to the underside of the seat 10.

The spring member 12 comprises a sheet of flat spring metal, bent intermediate its two ends, as at 13, thus forming two substantially parallel extensions or leaves 14 and 15.

Upon the underside of the upper leaf 14, and near its outer end, is provided a tapered male

formation or spline 24, having its longitudinally extending side walls converging downwardly.

Secured to the swivel supporting post 11, is a plate or supporting structure 19, provided at its opposite side margins with the slides 20 which receive the side margins of the lower leaf 15 of spring 12.

Stop lugs 21 are provided at the ends of the slides for limiting the adjusting movement of the seat.

Secured to the supporting structure 19 is a female or grooved member 22 having a tapered or wedge-shaped groove 23, of corresponding shape and adapted to receive the spline 24. The spring 12 is so formed as normally to maintain the spline element 24 with a loose or movable fit in groove 23.

The groove member 22, which is secured to the supporting structure 19, projects through an opening 25, in the lower spring leaf 15, of sufficient area to permit the necessary sliding movement of the spring 12 with its spline member 24, in its forward-and-back adjusting movement, so that within required limits the seat 10 and its supporting spring 12, may have free forward and back movement, so long as the parts are maintained with the spline 24 loosely seated within the groove 23, and this is the position normally maintained by the spring 12, when there is no weight upon the seat. When however there is pressure or weight upon the seat, by a person sitting thereon, the spring is sufficiently flexed to bring the spline and groove margins into locking relationship.

This spring 12 is preferably provided with a cut-out part 26 merely to render the spring more flexible.

What we claim is:

In an adjustable seat supporting device, the combination of a seat-member, and a main supporting structure, a substantially U-shaped wide spring having parallel horizontal extensions from an intermediate bend, one extension of said spring being secured to the seat-member, a spline element and a cooperating groove element, one element connected to the seat-member and the other element connected to the main supporting structure, said spline and groove having downwardly converging walls, and said main supporting structure provided with slide-ways receiving the other spring extension and stops on the supporting structure for engaging the second spring extension and limiting the range of adjustment.

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