Jan 6, 1931.

F. E. CASE ET AL

1,787,510

AUXILIARY FOOT REST

Filed July 18, 1928

2 Sheets-Sheet 1

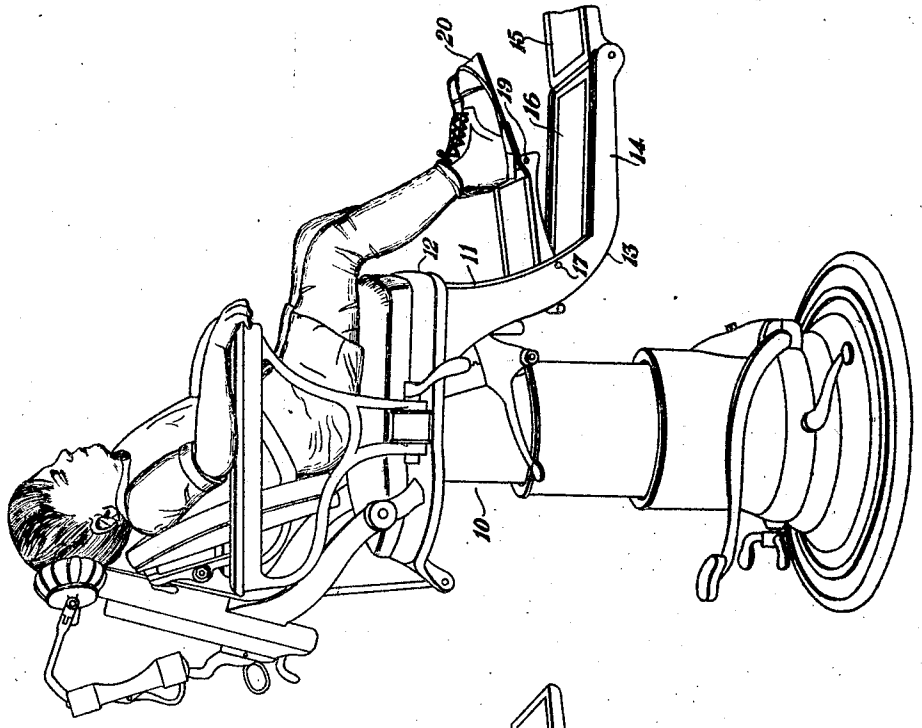


Fig. 2

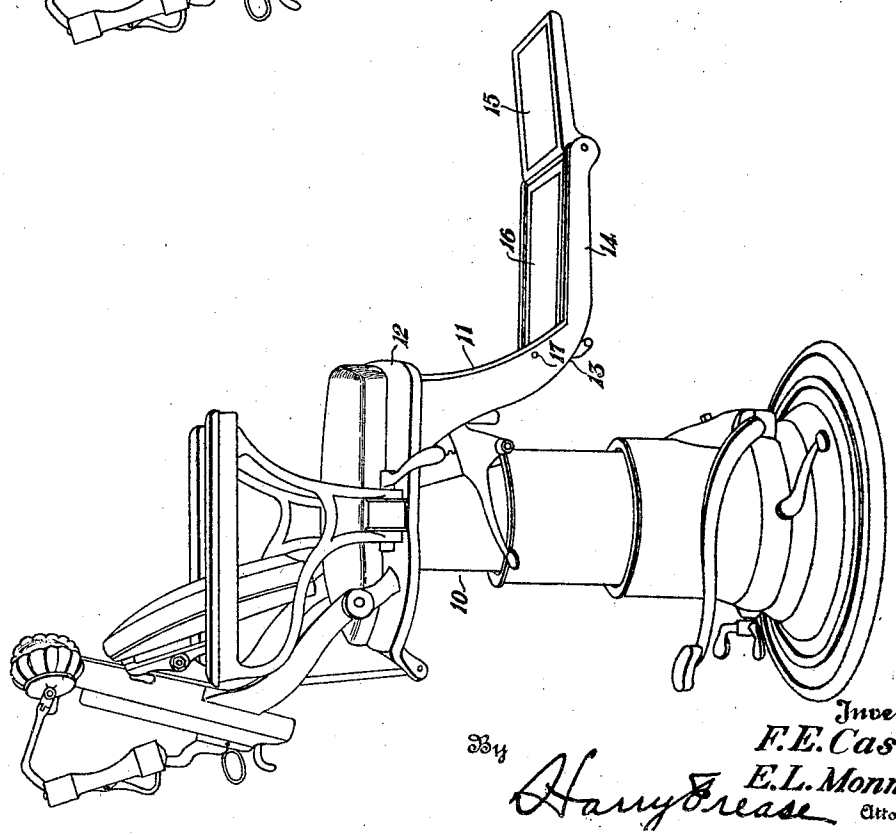


Fig. 1

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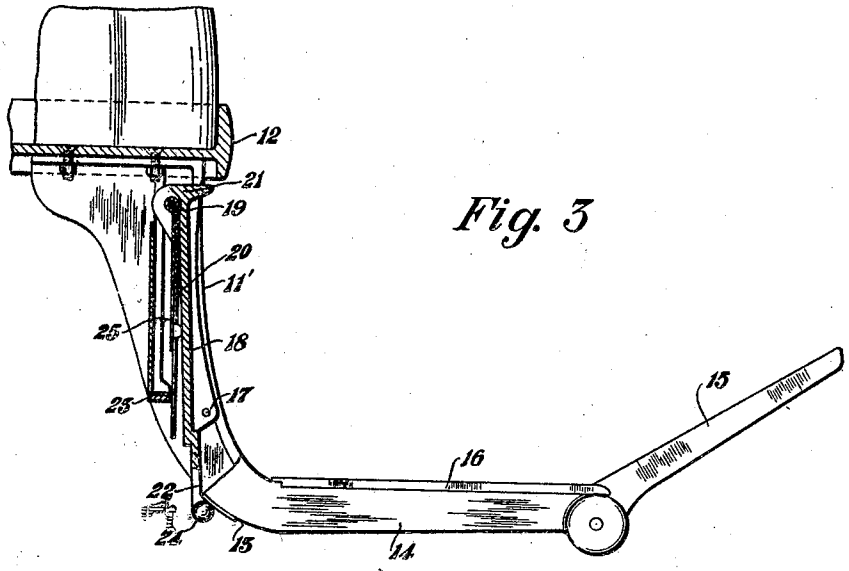


Fig. 3

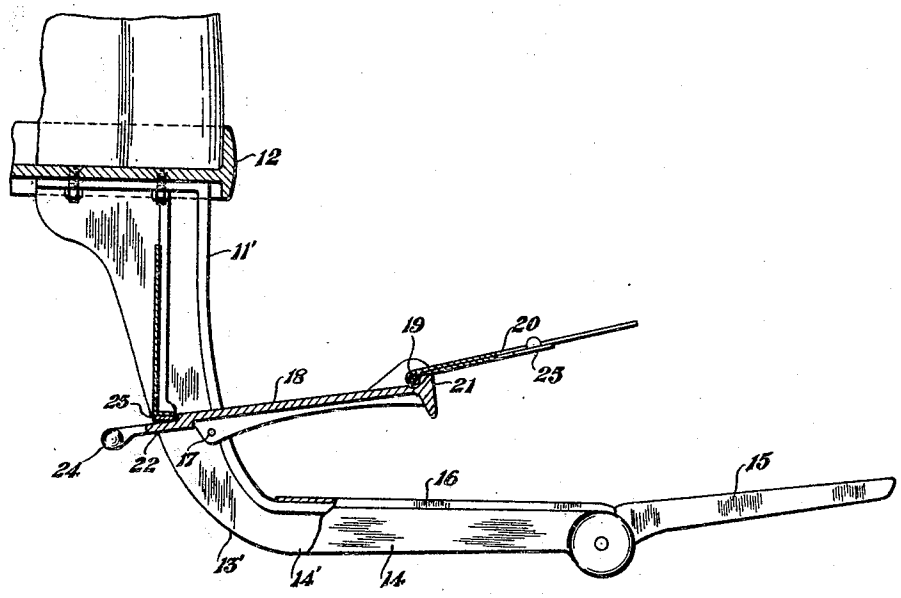


Fig. 4

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UNITED STATES PATENT OFFICE

FRANK E. CASE AND EDWARD L. MONNOT, OF CANTON, OHIO, ASSIGNORS TO THE HARVARD COMPANY, OF CANTON, OHIO, A CORPORATION OF OHIO

AUXILIARY FOOT REST

Application filed July 18, 1928. Serial No. 293,770.

The invention relates to auxiliary foot rests for the use of children and short persons and applied to dental chairs and the like, in combination with foot rests for the use of adults, whereby either the adult's foot rest or the auxiliary child's foot rest may be used as required, thereby avoiding the necessity of having a separate small dental chair for children's and short persons' use.

The objects of the present improvements include the provision in a dental chair of an auxiliary child's step or platform and foot rest, conveniently combined with an adult's step or platform and foot rest, the auxiliary step or platform and foot rest being adapted to be extended into operative position and withdrawn into inoperative and unobstructive position, by an easy foot or manual operation.

These objects are attained in the present improvements as will hereinafter be set forth in detail and claimed.

A preferred embodiment of the improvements is illustrated in the accompanying drawings forming part hereof, in which

Figure 1 is a perspective view of a dental chair showing the adult's foot rest in operative position, and the auxiliary foot rest folded back in inoperative and non-obstructive position;

Fig. 2, a similar perspective view illustrating the auxiliary foot rest extended into operative position, and in use by a child;

Fig. 3, a fragmentary elevation view with portions in section illustrating the adult's foot rest ready for use, and the auxiliary foot rest withdrawn as in Fig. 1; and

Fig. 4, a view similar to Fig. 3, illustrating the auxiliary foot rest ready for use, as in Fig. 2.

Similar numerals refer to similar parts throughout the several views.

The dental chair indicated generally at 10 is provided with laterally spaced angled foot rest side bars 11 and 11′ secured at their upper ends to the seat 12 and extending downwardly and forwardly therefrom to the apexes 13 and 13′ from which the outer beam portions 14 and 14′ extend horizontally forward and are pivotally connected at their outer ends with an angularly adjustable adult's foot rest extension 15.

The side bar beam portions 14 and 14′ support a stationary adult's foot rest platform 16, and the side bars above the apexes 13 and 13′, are pivotally connected as at 17 with an auxiliary foot rest platform member 18, preferably adjacent the inner laterally extending side edge thereof. The auxiliary platform 18 preferably adjacent its lateral edge forward of the pivotal connection 17 is pivotally connected as at 19 with an auxiliary foot rest extension 20, and the platform 18 is provided beyond the pivotal connection 19 with a stop 21 for supporting the extension 20 in the position illustrated in Figs. 2 and 4 when in use, and the extension 20 being adapted for being rotated about the pivotal connection 19 and being folded back upon the platform 18.

The platform 18 is adapted for being rotated about the pivotal connection 17 to extend outwardly in use as in Figs. 2 and 4 and to be swung back with the extension 20 between the side bars, to the inoperative and non-obstructive position illustrated in Figs. 1 and 3.

For operating the platform 18, and for limiting the outward swinging thereof, the platform is provided at its lateral edge rearward of the pivotal connection 17 with a stop arm 22, the upper surface of which is arranged to abut against a stop 23 secured between the side bars, and the stop arm 22 is provided with a laterally outwardly extending combined handle and pedal 24, which combined handle and pedal abuts against the side bar 12 at the apex 13 thereof as shown in Fig. 3 for limiting the inward swing of the platform 18 and for maintaining the same in inoperative position, and the platform 18 may be swung to and from operative position, either by the foot or hand operating the combined handle and pedal 24.

Similarly the extension 20 is provided with a laterally extending tongue 25, and by which the extension 20 may be swung about its pivotal connection 19, either by the foot or by the hand.

Accordingly an auxiliary foot rest is pro-

vided for the dental chair 10, as aforesaid, which may be folded up and swung back between the side bars, leaving the adult's foot rest unobstructed and ready for use as illustrated in Fig. 1, or which may be swung outwardly and used as a foot rest for a child or a small person as illustrated in Fig. 2.

We claim:

1. In a dental chair and the like including a seat having a foot rest frame, a foot rest pivotally mounted on the frame below the seat, the foot rest having a lateral edge forward of the pivotal mounting and a lateral edge rearward of the pivotal mounting, the foot rest being adapted to be swung to an outwardly extending position for use and to another position beneath the seat, a stop arm extending from the rearward foot rest lateral edge, stop means on the frame cooperating with the stop arm for maintaining the foot rest in outwardly extending position, stop means on the frame cooperating with the foot rest for maintaining the foot rest in position beneath the seat, and an extension for the foot rest pivotally secured adjacent the forward lateral edge thereof and adapted to be folded upon the foot rest when the foot rest is in position beneath the seat.

2. In a dental chair and the like including a seat having a foot rest frame, a main foot rest supported by the frame below the seat, an auxiliary foot rest pivotally mounted on the frame below the seat and above the main foot rest, the auxiliary foot rest having a lateral edge forward of the pivotal mounting and a lateral edge rearward of the pivotal mounting, the auxiliary foot rest being adapted to be swung to an outwardly extending position above the main foot rest for use and to an inoperative position beneath the seat, a stop arm extending from the rearward auxiliary foot rest lateral edge, stop means on the frame cooperating with the stop arm for maintaining the auxiliary foot rest in outwardly extending position, stop means on the frame cooperating with the auxiliary foot rest for maintaining the auxiliary foot rest in position beneath the seat, and an extension for the auxiliary foot rest pivotally secured adjacent the forward lateral edge thereof and adapted for being folded back on the auxiliary foot rest when the same is in position beneath the seat.

3. In a dental chair and the like including a seat having a foot rest frame, a foot rest pivotally mounted upon the frame below the seat, the foot rest having a lateral edge forward of the pivotal mounting and a lateral edge rearward of the pivotal mounting, the foot rest being adapted to be swung to an outwardly extending position for use and to another position beneath the seat, a combined pedal, handle, and stop arm extending from the rearward foot rest lateral edge for abutting against a portion of the frame for maintaining the foot rest in outwardly extending position, and for abutting against another portion of the frame for maintaining the foot rest in position beneath the seat, and the combined pedal, handle and stop arm forming means for swinging the foot rest on its pivotal mounting between the two said positions, and an extension for the foot rest pivotally secured adjacent the forward lateral edge thereof and adapted to be folded upon the foot rest when the foot rest is in position beneath the seat.

4. In a dental chair and the like including a seat having a foot rest frame, a main foot rest supported by the frame below the seat, an auxiliary foot rest pivotally mounted on the frame below the seat and above the main foot rest, the auxiliary foot rest having a lateral edge forward of the pivotal mounting and a lateral edge rearward of the pivotal mounting, the auxiliary foot rest being adapted to be swung to an outwardly extending position above the main foot rest for use, and to inoperative position beneath the seat, a combined pedal, handle, and stop arm extending from the rearward foot rest lateral edge for abutting against a portion of the frame for maintaining the auxiliary foot rest in outwardly extending position, and for abutting against another portion of the frame for maintaining the foot rest in position beneath the seat, and the combined pedal, handle, and stop arm forming means for swinging the auxiliary foot rest on its pivotal mounting between the two said positions, and an extension for the auxiliary foot rest pivotally secured adjacent the forward lateral edge thereof and adapted for being folded back on the auxiliary foot rest when the same is in position beneath the seat.

5. In a dental chair and the like including a seat having a foot rest frame, a main seat foot rest supported by the frame below the seat, an auxiliary foot rest pivotally mounted on the frame below the seat and above the main foot rest, the auxiliary foot rest having a lateral edge forward of the pivotal mounting and a lateral edge rearward of the pivotal mounting, the auxiliary foot rest being adapted to be swung to an outwardly extending position above the main foot rest for use and to an inoperative position beneath the seat, a stop on the frame adapted for abutment with the auxiliary foot rest for maintaining the auxiliary foot rest in outwardly extending position, another stop on the frame adapted for abutment with the auxiliary foot rest for maintaining the foot rest in position beneath the seat, means for swinging the auxiliary foot rest on its pivotal mounting between the two said positions, an extension for the auxiliary foot rest pivotally secured adjacent the forward lateral edge thereof and adapted for being folded back on the auxiliary foot rest when the same is 130

in position beneath the seat, and a stop on the auxiliary foot rest maintaining the extension in extended position when the auxiliary foot rest is in outwardly extending position.

In testimony that we claim the above, we have hereunto subscribed our names.

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