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ORTHOPEDIC APPLIANCE

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Fig. 4a.

Fig. 1.

Fig. 4b.

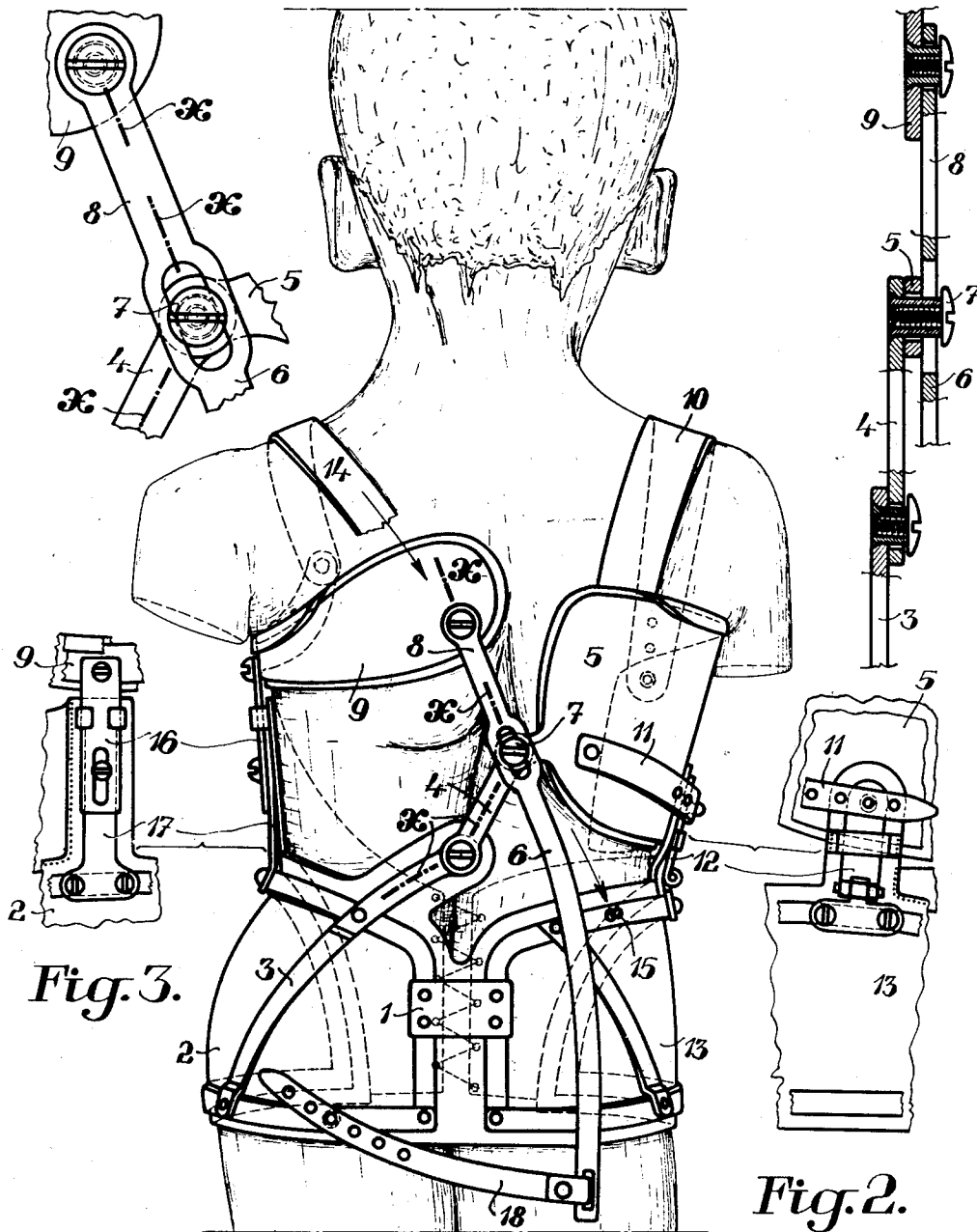


Fig. 3.

Fig. 2.

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ORTHOPEDIC APPLIANCE

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3 Claims. (Cl. 128—78)

This invention relates to an orthopedic appliance for treating lateral curvature of the spine (scoliosis) and consists substantially in the suitable pivotal connection of a shoulder pad and a rib pad with the pelvic shell, such that these parts are caused by a single adjusting lever to bear simultaneously against the parts of the body brought out of their normal position by the curvature of the spine.

10 A constructional example of the appliance is illustrated in the accompanying drawing in which Fig. 1 is a view from the back, Figs. 2 and 3 views from the front of details, which will be further explained below, and Figs. 4a and 4b show to an enlarged scale in a rear view and a section on line X—X the manner in which the adjusting lever is connected to the pads and the way it is mounted.

The appliance illustrated in the drawing is intended for the treatment of a right-hand scoliosis.

The appliance consists of the two-part pelvic shell which is made from a plaster cast, is held together by a plate 1, is fitted with leather and lacing means and to the part 2 of which, embracing the left hip, a supporting member 3 is fixed. To this supporting member a link 4 is pivoted, the other end of which is pivotally attached to the right hand rib pad 5 and to the adjusting lever 6. The part 8 of the lever 6, which extends beyond this pivotal point 7, is pivoted to the left-hand shoulder pad 9.

In this way the link 4 and the lever arm 8 form a toggle joint positioned at the place of curvature of the spinal column, during the straightening of which, effected by moving the lever 6, the right-hand rib pad 5 is moved to the left, the left-hand shoulder pad 9 is raised, the left-hand hip is forced downwards and the right hand hip is relieved of load. The rib pad 5 is ex-

tended forwardly to form a breast support and is suspended from the right shoulder by means of a shoulder strap 10. In addition it is connected by means of a short strap 11 to a bar 12 which is hinged to the part 13 of the pelvic shell, which embraces the right hip (Fig. 2).

The shoulder pad 9 is also extended forwards and from it a shoulder strap 14 passes obliquely backwards to the waist, where it is buttoned to the knob 15 of the hip part 13.

In addition the shoulder pad 9 is guided by means of a bar 16 in a slotted guide 17 fixed to the hip part 2 (Fig. 3).

The extended position of the toggle joint 4, 8 is maintained through the lever 6 being fixed in position by means of a strap 18 which is adapted to be buttoned to the hip part 2.

What I claim is:

1. An orthopedic appliance for treating lateral curvatures of the spine, comprising in combination a pelvic shell, a rib pad for one side of the body, a shoulder pad for the other side of the body, a toggle joint pivoted to the rib pad, the shoulder pad and that part of the pelvic shell which is disposed on the side of the body opposite the rib pad, an extension on one member of the toggle joint and means for adjustably fixing the extension to the said part of the pelvic shell.

2. An orthopedic appliance as claimed in claim 1, and comprising a bar hinged to that part of the pelvic shell which is disposed on the same side of the body as the rib pad and a strap for connecting the rib pad to the said bar.

3. An orthopedic appliance as claimed in claim 1 and comprising a bar fixed to the shoulder pad and a slotted guide on the part of the pelvic shell lying on the same side of the body, in which slotted guide the bar is adapted to slide.

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