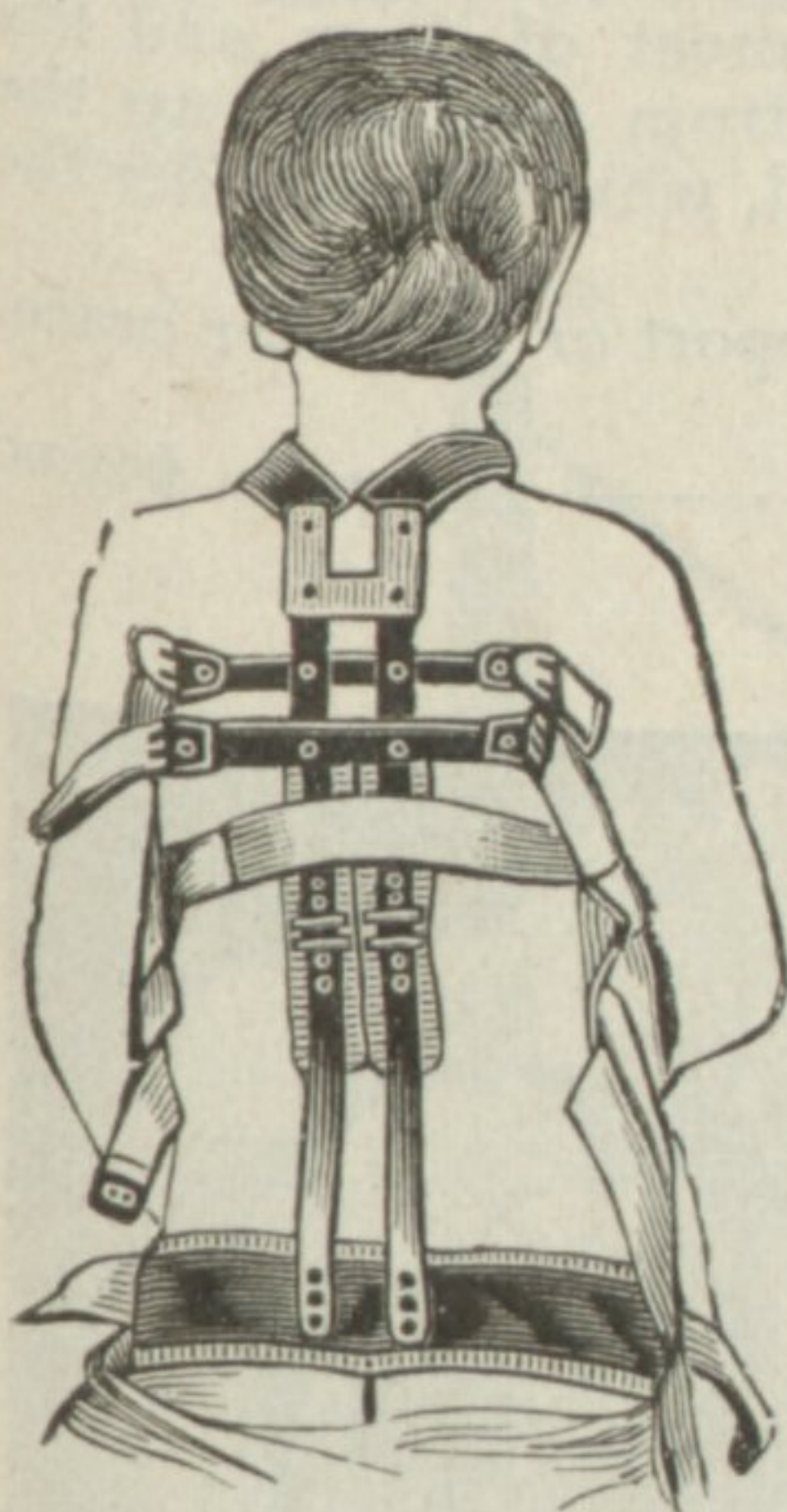


ORTHOPÆDIC APPARATUS.

Dr. Chas. F. Taylor's Apparatus for Posterior Curvature of Spine, with Attachments for Diseased Cervical Region.

2359c

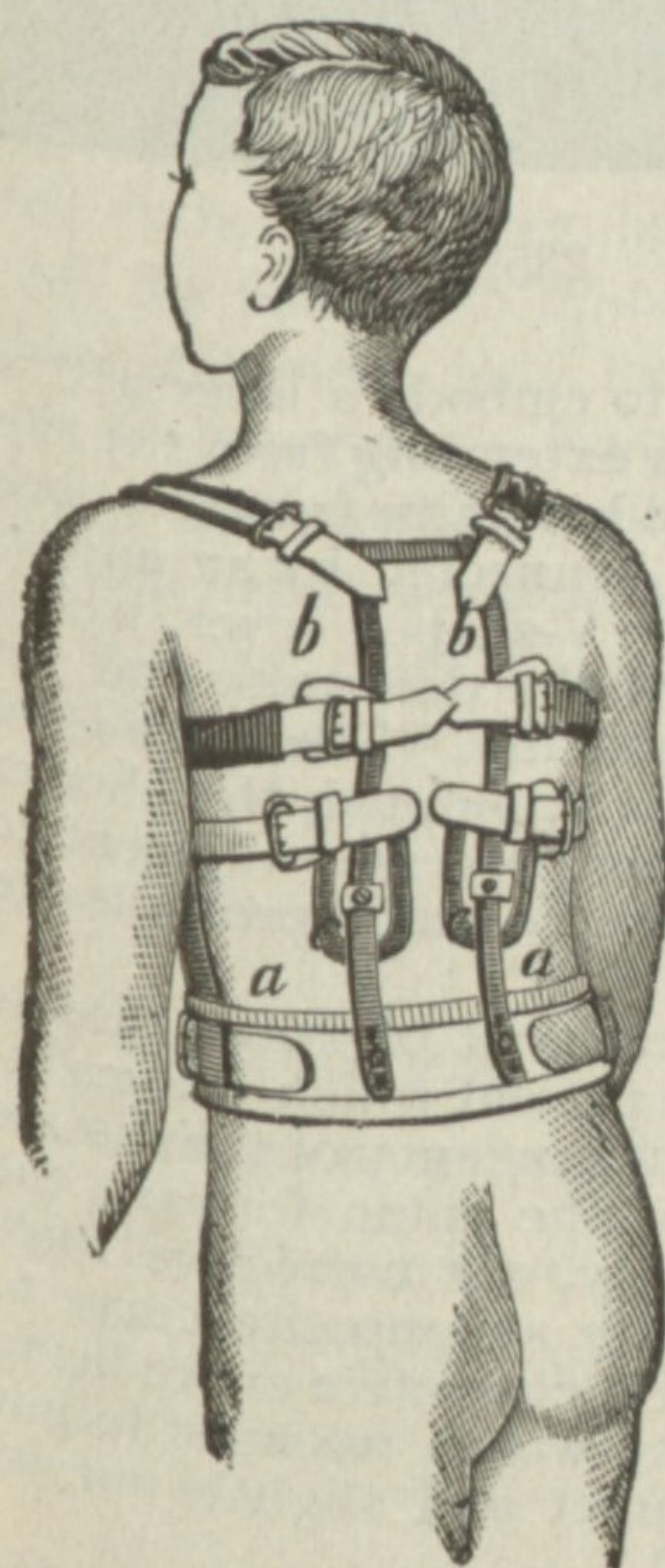
2359c* Price\$20 00 to \$30 00
 With Cervical or Wry Neck Attachment 30 00 to 40 00

In endeavoring to apply this mechanical principle (direct pressure upon the curvature of the spine) toward overcoming the pressure at the diseased portion of the spinal column, we find a happy conjunction of favoring conditions. There is no painful pressure downward on the abdomen and hips; but a broad band passes around the trunk, low down—so low that in front it almost touches the thighs in sitting. It passes just above the pubis and entirely below the abdomen, so that the abdomen is sustained upward instead of being, as in most instruments, pressed downward. There are two pieces or levers passing up the back; not over the spine, but each side of it, so that it is firmly held from lateral deviations. To the upper end of these two steel bars or "levers" two curved pieces of steel are fastened diagonally to both sides of the neck, they embrace it firmly and thus make all lateral motion impossible. The object of this arrangement is that they may pass directly forward and around the shoulder, and thus prevent a great loss of force by diagonal action; and also that they shall touch the person only where their pressure is needed—namely, on the forward part of the shoulders. This arrangement entirely obviates the painful and injurious ligaturing of the arms, which would occur if the straps passed forward from one point. At a part of the instrument opposite the point of disease—the point where we make our fulcrum—the pads

are placed. These pads are very important. They are made of chamois skin, and are filled with curled hair, which has no felting qualities, or, if desirable, can also be made of hard rubber. The shoulder-straps and band around the hips are likewise provided with similar pads to protect the skin from pressure and abrasion. It will be seen that the instrument, like the spine itself, acts like a double lever like a common fulcrum at the curvature. This action is directly backward at the hips and shoulders and directly forward at the middle of the back, or, wherever the diseased part is located. Thus the posterior portion, the only healthy portion of the diseased vertebræ, is made to support a part of the weight of the body, and the intervertebral cartilage and bodies of the vertebræ where the disease exists are relieved of pressure.

In addition to all this, the lower part of the body—the abdomen—is still further sustained in the upward direction by the apron in front which is fastened on each corner, as shown by the figure.

Should the disease have developed itself in the upper dorsal or cervical region of the spine, it can be treated even more effectually than when lower down, by an apparatus constructed like the ordinary apparatus, but with an attachment for sustaining the head. The effect and form of this attachment is that of a lever, acting backward to raise the head and neck. Measurements required are the same as Fig. 2357a.

**2359d* Washburne's Brace for Pott's Disease or Posterior Curvature of the Spine.**

In the accompanying figure *aa* is a steel band which passes half way around the pelvis, just above the trochanters, *bb* are two flat bars of steel, parallel to each other, and curved upon their flattened sides to the form of the spine to which the apparatus is fitted. These bars are curved a little less than the spine, so that when secured in position, their elasticity will constantly operate to rectify the spinal curve. The cross-bar at the upper ends of parallel ones is firmly rivited to them, and is to cross the back just above the spines of the scapulæ. At the ends of this bar are affixed buckles to receive the shoulder straps; *cc* are two movable pads which slide upon the bars to which they are attached—these are best stuffed with cork filings. These compresses are to be brought one upon each side of the projecting knuckle of spine and secured firmly by means of the screws provided for that purpose. Buckles are attached to various parts of the brace, by means of which it is secured to the front part of the apparatus, which consists, as shown, of a piece of twilled muslin, or other strong material, which covers the chest and abdomen and is provided with straps. Such parts as are in contact with the body are carefully padded. Measurements required, the same as Fig. 2357a.

Price\$15 00 to \$25 00

For terms, see page 7.

2359d

All Instruments designated with a * are illustrated.