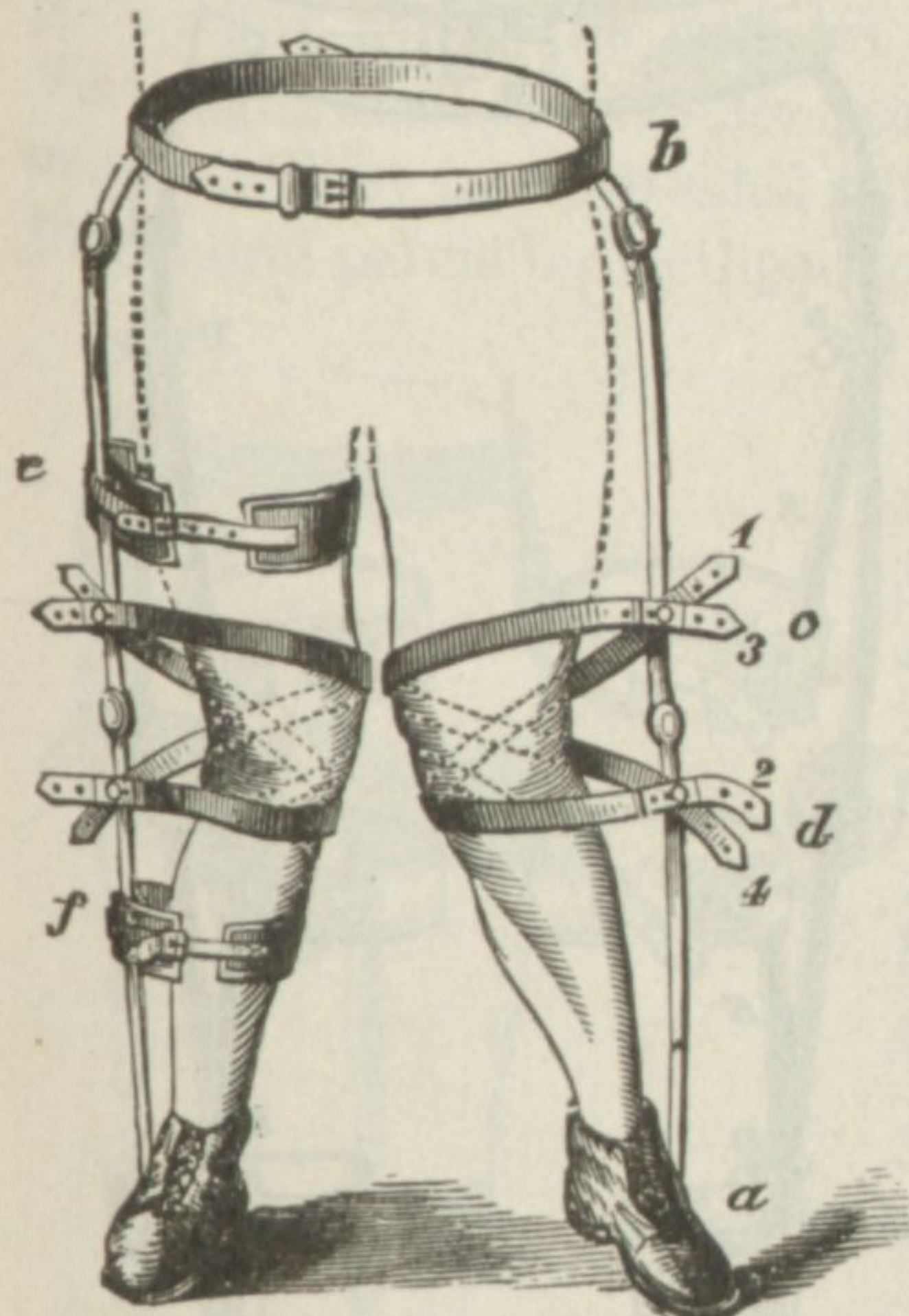


ORTHOPÆDIC APPARATUS.

2386 * Genu-Valgum, or Knock-Knee Brace.

The mechanical treatment of knock-knees requires a proper instrument of sufficient strength, and yet not too heavy—to suit the condition of the patient. The one represented is the simplest and most effectual one of which we know. It consists (if the deformity be double) of two lateral stems, with joints at the ankles, knees, and hips, extending from the heels of strong shoes (A) to a well-padded pelvic band (B). The pelvic band is made in two halves in order to admit of adjustment—the tightening of the posterior buckle everting the toes, that of the front buckle inverting them.



2386.

A pair of padded straps secured to each other crosswise, act in the following manner: End 1 is buttoned to the thigh stem (C), carried from behind, below the inner condyle, to the front, terminating in the end 2, which is buttoned to the leg stem (D). The end 3 buttons to (C), is carried from the front to the back of the knee, passing over the inner condyle, and secured to the button (D). In this manner they support both the head of the tibia and femur, whilst their combined direction of force being outwards gradually corrects the deformity.†

Some surgeons prefer to have the apparatus without a joint at the knee, but is there not a risk of inducing ankylosis by too long retention of the limb in one position?

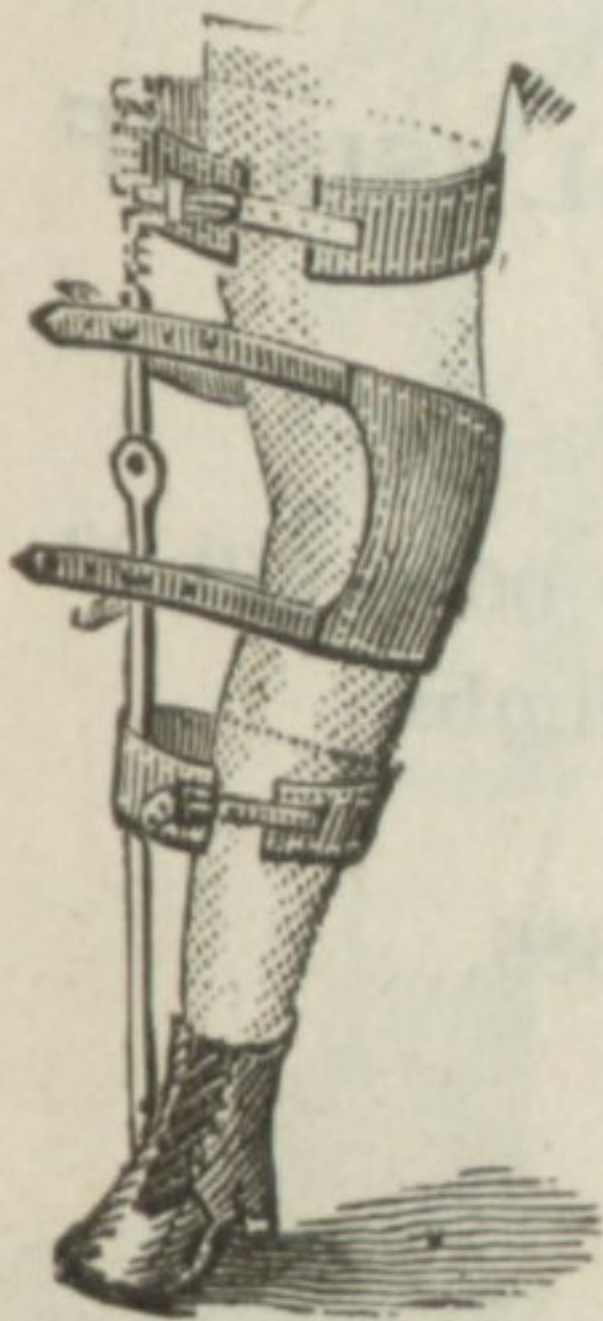
Besides, the patient is liable to fall with stiff splints, and is thus in constant danger of fracturing the bones of the thigh or leg. In ordering the apparatus, send the following description and measurements for knock-knees:

1. Patient's name.
2. Patient's age.
3. Length from sole of foot to ankle-joint.....Inches.
4. " " " knee-joint. "
5. " " " hip-joint..... "
6. " " " iliac crests "
7. Circumference of pelvis 1 inch below iliac crests.. .. . "
8. " thigh at C, { A stick to be placed on the out-
side of the limb, and these two } "
9. " leg at D, { measures taken around both. } "
10. Right, left, both feet.

Price for a pair of braces, to patients..... \$30 00 to \$40 00

Shoes are charged extra, according to quality.

† This instrument exerts very much more power, and answers better when provided with padded metal bands at thigh (C) and calf (F).



2387.

2387 * Plain Knock-Knee Brace.

This apparatus is made similar to Fig. 2386, but extends only to the upper thigh, dispensing with the pelvic band, and is intended only for very slight cases.

Price for a pair of braces.....\$17 00 to \$20 00

2387a Plain Knock-Knee Brace, with addition of inside steel stem as shown on bow-leg brace, Fig. 2384.

Price for a pair of braces.....\$20 00 to \$25 00

For terms, see page 7.