

LEG REST.

1,296,722.

Fig. 2. 

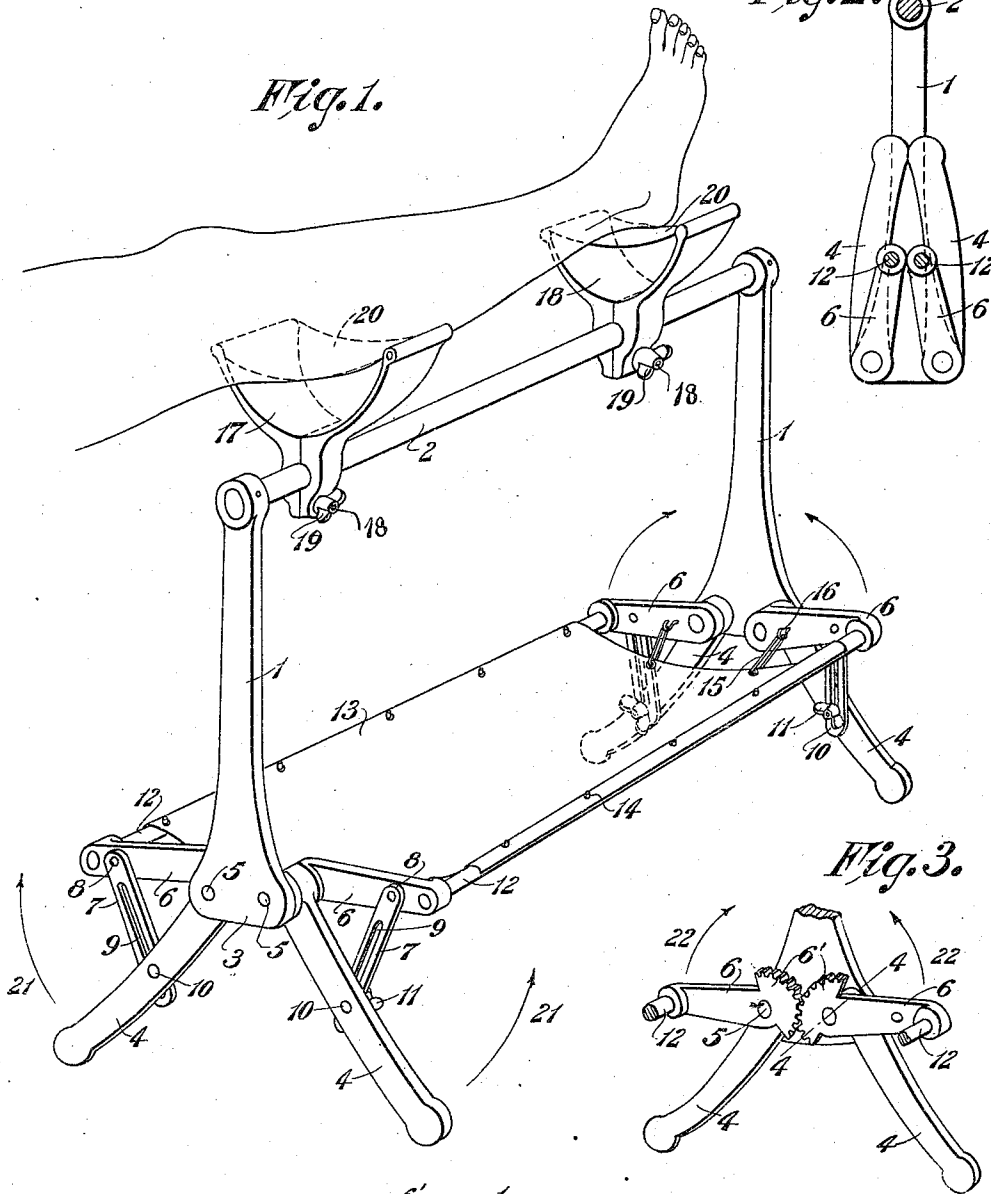
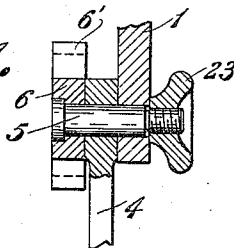


Fig. 3.

WITNESS:
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Fig. 4.



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LEG-REST.

1,296,722.

Specification of Letters Patent.

Patented Mar. 11, 1919.

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To all whom it may concern:

Be it known that I, CHESTER A. WASHBURN, M. D., a citizen of the United States of America, residing at Springfield, in the county of Hampden and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Leg-Rests, of which the following is a specification.

This invention relates to improvements in leg rests for medical and surgical uses, in treating and dressing the patient's limb. Broadly considered, the invention comprises an adjustable and portable frame work, whereby the points of support for the limb may be readily adjusted, and, whereby the height of the apparatus, as a whole, may be varied to suit the convenience of the patient, as well as the operator. The invention is especially adapted for treating diseases of the limb, as varicose veins, or for dressing and bandaging surgical wounds, when the patient is treated by using remedies applicable to such ailments. In addition to the adjustable features, the device is intended to be readily folded into a small and compact compass for convenience in carrying it. It is also provided with a screen, or apron, for catching particles of bandage or for preventing the solutions that are used from coming in contact with the floor. The invention includes a pair of upright standards which are supported at their lower ends by adjustable legs. Attached to these legs are braces which support arms and between the arms are rods to which the apron is attached. Means is also provided for causing one pair of the supporting legs to be automatically folded when the pair on the opposite side of the device is folded.

Referring to the drawings:

Figure 1 is a perspective view of the apparatus showing it in use for supporting a limb of the patient, also the apron in its extended position.

Fig. 2 is a detail end view of one of the standards showing the legs attached to the standard and the arms which support the apron moved into a folded position. This view represents the folded position of the construction shown in Fig. 1.

Fig. 3 is a detail view of a portion of one of the standards and the means for automatically moving one pair of arms and legs on one side of the structure when the arms

and legs on the opposite side are moved, and

Fig. 4 is a detail view of Fig. 3 on the section line 4—4 showing the tightening means for retaining the arms and legs in their adjusted position.

Referring to the drawings in detail:

1 designates the standards or uprights at the opposite ends of the apparatus. These are connected together at their upper ends by means of the rod 2, which is secured to the standards by any suitable means, as a threaded connection, or pins. The lower end portions of the standards 1 are made wider as indicated at 3 and pivotally attached to these portions are the supporting legs 4, by means of the pins 5. On the inner ends of the pins 5 are placed the outwardly extending and foldable arms 6, which are held in different positions of adjustment by means of the inclined braces 7. The legs 4 and arms 6 are rotatably mounted on the pins 5 which are secured in the standards 1. To prevent the legs 4 and arms 6 from turning on the pins 5, any suitable means as a clamping nut may be placed on the inner ends of the pins 5, as shown in Fig. 4. These braces are connected to the arms 6 by means of the pins 8, and are formed with slots 9 to receive the bolts 10, which pass through the legs 4, the inner ends of the bolts being threaded to receive the tightening thumb-nuts 11. When the thumb nuts 11 are tightened, the legs 4 and arms 6 are rigidly held in place with relation to each other. Extending between the outer ends of the arms 6 are rods 12 and attached to these rods is an apron 13, preferably composed of rubber sheeting. The apron is provided with openings, or other suitable means for receiving the pins 14. The ends of the apron are attached to the arms 6 in any suitable manner, as by means of the links 15 which engage hooks 16 on the arms. 17 and 18 designate stirrups which are adjustably secured to the rods 2. These stirrups as shown are formed in two parts that are secured together by means of the bolt 18 and suitable clamping devices as wing nuts 19, whereby they may be adjustably placed and secured on the rod 2 for the purpose of varying the distance from each other and to comfortably support the limb of the patient. Attached to the upper ends of the stirrups

17 and 18 is a yieldable support or sling 20, as fabric, for resting the limb. By loosening the wing nuts 11, the distance between the legs 4 may be varied, which, in turn, varies the height of the stirrups 17 and 18 from the floor. When the device is not in use, it may be readily folded into small compass by loosening the thumb nuts 11 and folding the arms 6 and legs 4 into the position shown in Fig. 2. The stirrups 17 and 18 may be readily removed from part 2 by removing the wing nuts 19. The apron 13 will also readily fold when the arms 6 are turned upward in the direction of the arrows 21.

As a modified construction, reference is made to Figs. 3 and 4, in which the arms 6 are formed at their inner ends with toothed sectors 6', the teeth of which mesh with each other as shown. These arms are rigidly secured to the pins 5, whereby when the legs 4 are turned upwardly in the direction of the arrows 22, the arms 6 will at the same time be moved upward toward each other as indicated by the arrows 22, that is to say, the opposite side is automatically folded when the arms and legs on one side are folded. As a means for retaining the arms 6 and legs 4 in adjusted position, the pin 5 is threaded and a small hand-wheel, as 23, is placed thereon, whereby, by tightening this wheel the legs 4 and arms 6 may be clamped in different positions of adjustment. It will be seen from this description that I have provided a portable surgical device which can be readily set up for use and folded into a small compass in a short space of time; also the rubber apron 13 can be readily removed and cleansed when desired. It is to be understood that I do not limit myself to the precise construction and arrangement of parts herein shown and described as the spirit and scope of the invention may be carried out by other constructions.

What I claim is:

1. A device of the character described, comprising, in combination with a pair of standards, a bar connecting their upper ends, stirrups adjustably secured to said bar for supporting the limb of the patient, supporting legs pivotally secured to the standards, means for adjustably securing the legs to the standards for varying the height of the stirrups from the floor, arms pivotally

secured to the standards, rods connecting the outer ends of the arms, an apron attached to the rods, and means for supporting the apron in its extended position.

2. A device of the kind described, comprising in combination with suitable standards, legs pivotally secured to the lower ends of the standards, a bar connecting the upper ends of the standards, stirrups adjustably secured to the bar, means for supporting an apron below the stirrups, said means comprising arms pivotally secured to the standard and interconnecting devices between the legs and the arms for causing the arms to automatically fold inward toward the standard when the legs are folded, and means for securing the arms and legs in different positions of adjustment.

3. A device of the kind described, comprising standards, means for supporting an apron at the lower ends of the standards, said means comprising two pairs of outwardly extending arms having rods connecting their outer ends, means for supporting the standards comprising legs pivotally attached to their lower ends and means for securing the legs to the arms, a rod connecting the upper ends of the standards and supporting stirrups being adjustably secured thereto, the construction of the arms and legs with relation to the standards being such that the legs, arms and apron may be folded inwardly toward each other for the purpose described.

4. A device of the kind described, comprising, in combination, a pair of standards, legs pivotally attached thereto, arms pivotally connected to the standards, the arms and legs being connected together for operating one from the other, an apron secured to the arms, means for securing the arms and legs in the adjusted positions, means for supporting a plurality of leg supporting stirrups above the apron, as described.

5. A device of the kind described comprising end standards, a rod connecting the same, stirrups on the rod, supporting legs for the standards, an apron, means for attaching the apron to the standards comprising adjustable arms, and rods connecting the arms to which the side edges of the apron are secured, and means for attaching the ends of the apron to the arms, as described.

CHESTER A. WASHBURN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."