MOBILE APPARATUS FOR PREPARATION OF HOT WATER DRESSING

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2 Sheets-Sheet 1

Fig. 1.
MOBILE APPARATUS FOR PREPARATION OF HOT-WATER DRESSINGS

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1 Claim. (Cl. 219—43)

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The invention described herein may be manufactured and used by or for the Government for governmental purposes, without payment to me of any royalty thereon.

This invention relates generally to a portable heating device but more particularly to an apparatus for the preparation of hot water packs or dressings as used by physicians and nurses in the treatment of poliomyelitis and other ailments.

One object of the invention is to provide an electrically heated vessel which may be readily moved from place to place in a hospital, surgeon's office, or wherever it is necessary to use the same.

Another object of the invention is to provide a readily movable device for the preparation of hot water packs which combines therewith an easily operated wringer apparatus.

Another object of the invention is to provide a simple, efficient, durable, and inexpensive device for the preparation of hot packs in the treatment of poliomyelitis which may be substituted for the expensive apparatus now in use.

Another object of the invention is to provide a movable heater support adapted to facilitate the putting on and the removal of water containers and to also facilitate the handling of the dressings.

Still another object of the invention is to provide a device of the class described wherein rigidity of the frame is secured by an improved form of construction, without sacrificing lightness of parts and of the device as a whole.

Further objects of the invention are to provide a device of the class described that can be easily and conveniently operated, which is not apt to get out of order, and which can be easily repaired or have parts thereof readily replaced.

Referring to the drawings in which like parts are indicated by similar reference characters:

Figure 1 is a perspective showing an assembled view of the entire apparatus;

Figure 2 is a partially sectioned elevation of the assembled apparatus taken on the line 2—2 of Figure 1.

Referring to Figs. 1 and 2 the numeral 10 indicates a triangular frame composed of three equally spaced standards or uprights 11, 12 and 13 attached rigidly to lower triangularly arranged beams 14 supporting a floor 15 to form a triangular platform 16. The upper portion of the standards are bent inward at 17, 18 and 19 and to their upper extremities is attached a supporting ring 20. To the lower portion of the tri-angularly arranged standards is attached a spider 21, and the standards are mounted on casters 21', so that the frame may be easily rolled around from place to place.

Upon the floor 15 of the platform 16 is mounted an electric stove 22. The legs 23 of the stove are adapted to fit within seats formed in the floor 15. The stove is provided with a switch 24 through which the heating elements thereof (not shown) are connected through conducting leads 25 to a wall plug 26, so that the device may be plugged into the nearest or most convenient outlet for electrical energy.

A suitable cylindrical heating vessel or kettle 27 is provided for heating wet packs or surgical dressings. The kettle is provided with side handles 28, 29. These handles as shown in the figures are formed as loops which may be riveted or otherwise suitably attached to the kettle. To the handles are attached supporting hooks 29 and 29' provided with ring portions 30 and 30' which engage the loops and hook portions 31 and 31' which engage the supporting ring 20 to thereby support the kettle over the stove 22.

A wringer 32 which is mounted on the ring 20 projects above the top of the frame so that its rollers 33 and 33' extend above the kettle 28. The wringer comprises angularly shaped support members or standards 34 and 34' which are attached to the ring 20 and which are adapted to support the roller shaft 35 on which is rotatably mounted the roller 33. A yoke 31, the sides of which are formed as bell crank levers 36 and 36', is pivotally attached on each side thereof, at 39 and 39', to the support members 34 and 34'. Adjacent the extremities of the bell crank levers a roller shaft 35' is rotatably mounted. This shaft extends beyond one side of the yoke where it is bent to form a crank 40 and is provided with a handle 42. A spring 43 is connected to the support member 34 and to the bell crank lever 38 which tends to separate the rollers, and to retain them in a separated position as will be further explained.

To the end of the yoke opposite the roller end are attached the links 44 and 44'. These links pass downwardly from the wringer yoke 37 through eyes 45, 45', screwed in the floor 15 of the triangular platform 16, to about six inches above the floor where they are attached to an operating treddle 46. The links 44 and 44' may be made of a single piece of wire which is threaded through a roller member as illustrated in the drawings. In operating the wringer the wet cloths are held by one end between the rollers.
which are kept separated by the spring 43. The operator then pushes the treadle downwardly with his foot and moves the rollers toward each other. When the rollers are contacting the wet cloth with sufficient pressure the operator turns the crank handle 42 to move the cloth between the rollers and thus press out the water absorbed thereby. The cloth may be released from the pressure of the rollers at any time by simply raising the foot from the treadle so that the spring will move the roller 33' out of engagement with the cloth.

Having thus described my invention, what I claim as new and wish to secure by Letters Patent is:

A device for preparing hot water packs comprising a frame composed of a plurality of uprights, a combined supporting and suspension spring connected to said uprights at their upper extremities, a spider connected to the lower portion of said uprights, a platform supported by said uprights above said spider, a source of heat mounted upon said platform, a heating vessel suspended from said ring above said source of heat, angularly shaped support members mounted upon said ring, an idler roller mounted in said support members, an integrally formed yoke-shaped roller mounting comprising a cross member and laterally spaced arms pivotally mounted in said support members, a crank-operated roller mounted in said yoke, and means including a treadle and connecting link connected with said cross member for controlling the pressure between said rollers.

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REFERENCES CITED

The following references are of record in the file of this patent:

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