

(No Model.)

A. B. MORRISON.

HOSPITAL CRANE.

No. 290,088.

Patented Dec. 11, 1883.

Fig. 1.

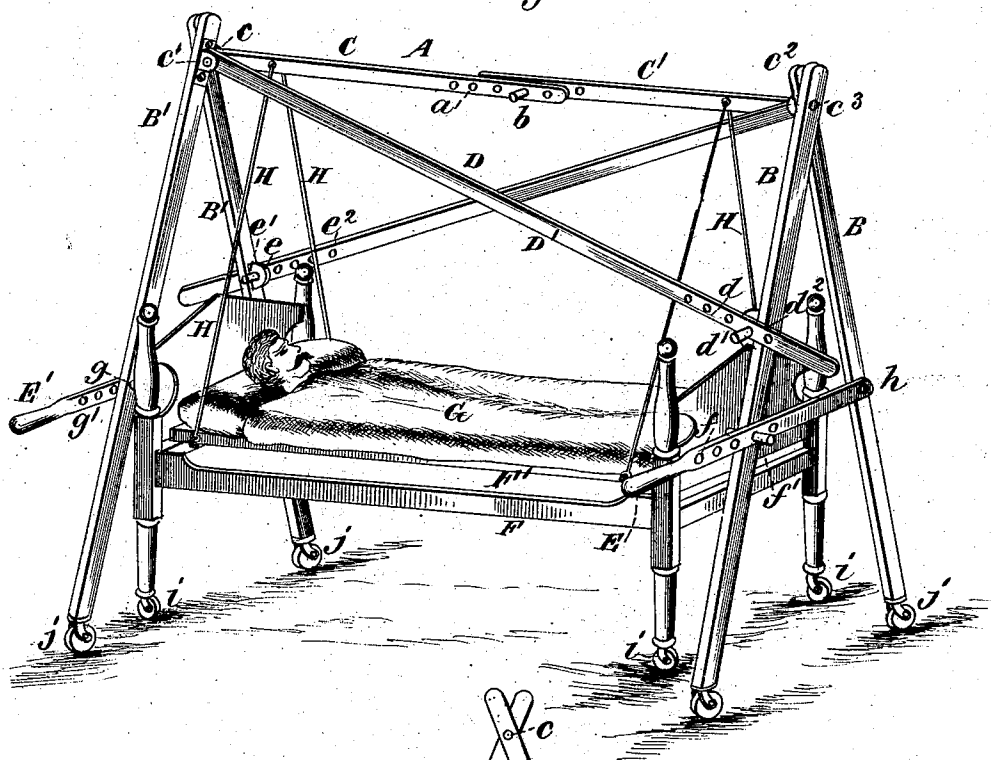
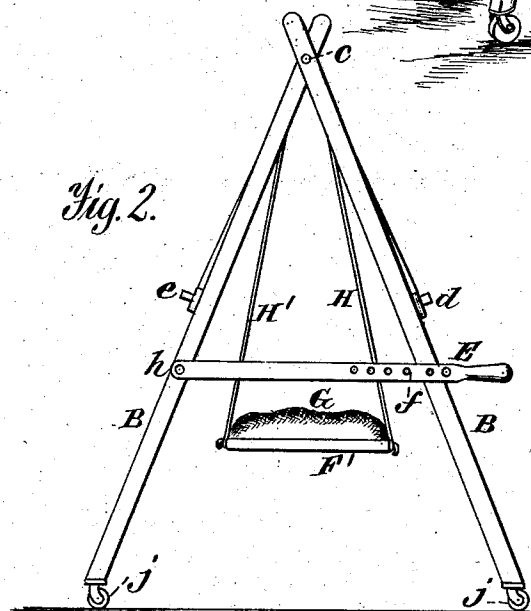


Fig. 2.



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UNITED STATES PATENT OFFICE.

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HOSPITAL-CRANE.

SPECIFICATION forming part of Letters Patent No. 290,083, dated December 11, 1883.

Application filed October 24, 1883. (No model)

To all whom it may concern:

Be it known that I, ANDREW BROWN MORRISON, a citizen of the United States, residing at Litchfield, in the county of Montgomery and State of Illinois, have invented certain new and useful Improvements in Hospital-Cranes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in "hospital-cranes," which consist in arranging an adjustable crane with depending supporting cords or rods over a bed or cot, whereby the mattress or bed-bottom on which the patient rests can be lifted above the bed.

The object of my invention is to move patients in a hospital or other places without hand-lifting, and without changing their position on the bed or subjecting them to any pain or inconvenience while being moved. I attain these objects by means of the peculiar construction and arrangement of the various parts of my device, which will be more fully pointed out and described in the specification and claims, reference being had to the drawings accompanying this specification, and forming part of the same, in which—

Figure 1 is a perspective view of my device, showing the parts in place, with the bed-bottom raised. Fig. 2 is an end view, showing the legs of the crane extended.

Similar letters refer to similar parts throughout the drawings.

Referring to the drawings, A represents a frame consisting of uprights, cross-pieces, &c. The uprights or standards B and B' are pivoted at their upper ends by pivot-bolts *c*², and their lower ends are provided with casters *j*.

On the inner face of standards B and B', near the top, are secured metal plates *c*, having projecting ears *c'* and *c''*, formed to receive the ends of cross-pieces C and C', and the inclined adjustable bars D and D'. The top cross-pieces and bearing-bars C and C' are provided on their inner ends with perforations *a*, formed to receive holding-pin *b*, by means of which the top of the frame is adjusted, and the distance between the standards increased or decreased, as desired.

The outer ends of the inclined braces D and D' are provided with perforations *d* on their outer ends, formed to receive stop-pins *d'*, which pass through said perforations into perforations formed into the standards, and by means of which said standards are adjusted to register with the adjustment of bars C and C'. Cross-bars E and E', having perforations *f* and *g'*, through which stop-pins *f'* and *g* are inserted, to bind the same to the standards. The outer ends of said bars E and E' are pivoted to said standards by pivot-pins *h*, the purpose of said construction being to adjust the height of the frame A.

Adjustable rods H, or straps with buckles, are attached by the upper ends to cross-pieces C and C', while their lower ends are provided with hooks or clamps formed to engage with the bed-bottom, as shown in Figs. 1 and 2. Metal pieces *e'* and *e''* are secured to the inner faces of standards B and B', by which the inclined cross-bars are held with pins *d'* and *e* when desired. The bedstead or cot F is formed in the usual manner, and provided with a mattress or elastic top, F'.

The operation is as follows: The frame A is placed over the bedstead F, when the end braces, E and E', are loosened at one end by removing the pins *f'* and *g*. The standards are pushed apart at their lower ends, when the top of the frame descends to the proper point. The straps H are attached to the bed-bottom, on which the patient rests. The standards are then drawn back to the requisite height to lift the bed-bottom and patient free from the bed, when, by means of the casters *j*, the whole apparatus is transferred to any part of the room desired.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a hospital-crane, the pivoted standards provided with casters, the adjustable top cross-bar, the inclined adjustable side braces, and the lifting rods or straps, all arranged and operated substantially as shown.

2. A hospital-crane consisting of standards pivoted at the upper ends and provided with casters at their lower ends, a series of adjustable braces and cross-bars connecting and holding said standards in place, a series of rods or

straps secured by their ends to the top of the frame, and a bed-bottom, substantially as and for the purpose set forth.

3. In a hospital-crane, the combination of
5 the standards B and B', the cross-bars C, C', D, D', E, and E', said cross-bars having perforations and stop-pins, as shown, the casters j, and the lifting rods or straps H, with the bed-

stead F' and the bed-bottom F', substantially as shown and specified. 10

In testimony whereof I affix my signature in presence of two witnesses.

ANDREW B. MORRISON.

Witnesses:

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