No. 659,755. Patented Oct. 16, 1900.

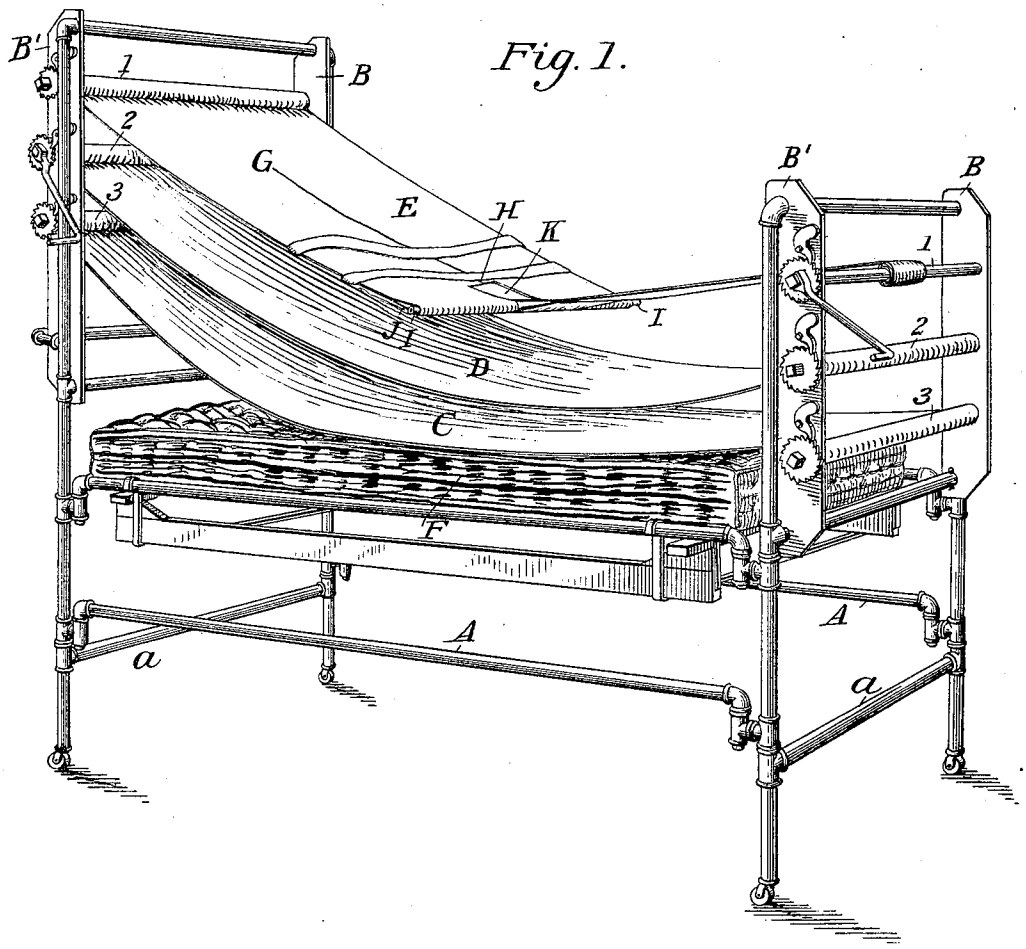
D. MOULTON.

INVALID BEDSTEAD.

(Application filed Apr. 9, 1900.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.



Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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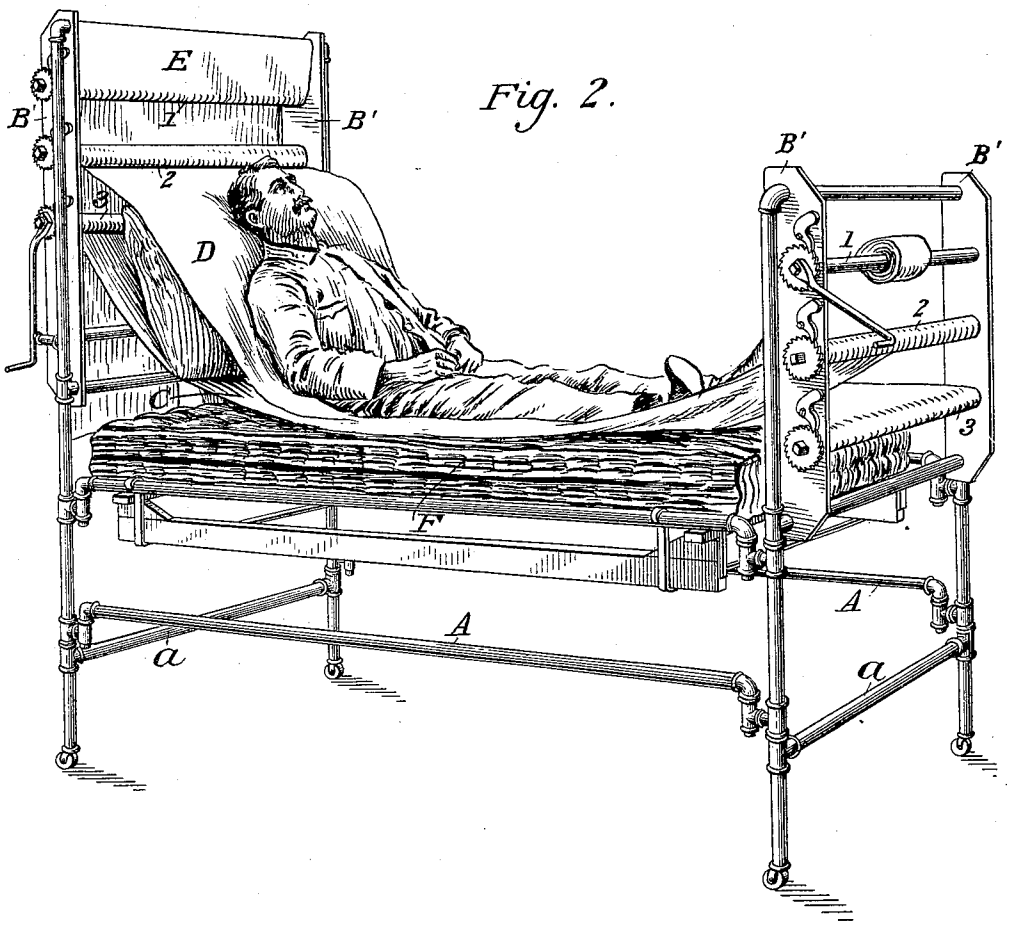
INVALID BEDSTEAD.

(Application filed Apr. 9, 1900.)

(No Model.)

2 Sheets—Sheet 2.

Fig. 2.



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UNITED STATES PATENT OFFICE.

DUSTIN MOULTON, OF MONTPELIER, VERMONT.

INVALID-BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 659,755, dated October 16, 1900.

Application filed April 9, 1900. Serial No. 12,274. (No model.)

To all whom it may concern:

Be it known that I, DUSTIN MOULTON, a citizen of the United States, residing at Montpelier, in the county of Washington and State of Vermont, have invented certain new and useful Improvements in Invalid-Bedsteads, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to an improvement in invalid-bedsteads in which hoisting-cranks are located at either end of the bedstead, said cranks connected with rollers and having fastened to said rollers strips of canvas extending lengthwise of the bed, making a continuous connection from roller to roller.

A further object is to provide a convenience in a hoisting arrangement which will enable the patient to be hoisted completely from the bed to meet the calls of nature.

This invention consists in the various features of construction and arrangement of parts, as will be hereinafter more fully described, and pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of my bed, wherein are embodied my improvements. Fig. 2 is the same as Fig. 1 with the upper canvas and its arrangements left off.

Referring to the drawings, in Fig. 1, A A are the side rails of the bed, and *a a* are the end supports. These side rails and end supports are fastened together in the usual way. The upper part of the bed frame or posts B′ B′ B′ B′ are provided with rolls 1, 2, and 3, and secured to these rolls are strips of canvas C, D, and E. In the use of these rolls the canvas extending from roll to roll can be lengthened or shortened by winding the canvas around the rolls or lengthened by a reverse movement. This is done by a hand-crank secured to the rolls, the ends of which are so formed that one crank will fit them all. The mechanism connected with the rolls is so arranged that a right-hand revolution of the crank shortens the canvas and a left-hand one lengthens it; but this order may be reversed. When the canvas is of the desired tension, it is held in place by the usual ratchet or other similar device.

F is a mattress located on a plane of woven wire, said plane supported on slats running crosswise of the bed and secured to the side rails of the bed frame or rails in any convenient way. Canvas C comes in immediate contact with the mattress or bed. This canvas can be so shortened as to completely lift the patient from the bed, making it possible to air and arrange its fixtures without inconveniencing either the patient or attendant. Canvas D is nearly always under the patient. In the use of this canvas, connected as it is with rolls at either end of the bedstead, the patient can be raised up or let down in bed. If to be raised, shorten the canvas by winding it around roller 2 at the head of the bed; but if to be let down, lengthen it by unwinding it and shorten the canvas around roller 2 at the foot of the bed. In the use of canvas E the patient is to be raised up in bed by shortening canvas D around roller 2 at the head of the bedstead and lengthening it from roller 2 at the foot of the bedstead, thus raising the patient to an upright or sitting posture. When the patient is in the position last described, canvas E, which is split from G to H and has a bed-pan opening at K, is to be adjusted. This can be done by having the canvas loose, placing the split sheets on either side of the patient, and bringing them down to a point between the knees and hips. At I the canvas is turned up in a way which enables rod J to pass through it, uniting the split portions of the canvas securely together. At K there is a bed-pan opening in the canvas. Secured to the rod J is a narrow strip of canvas, which connects with roller 1 at the foot of the bed. In this condition the movements of the patient can be controlled by the rolls 1 1, operated by cranks, and held in place by ratchets at either end of the bed-posts. Canvas D is to be brought up to a point immediately under canvas E, in such a way as to conveniently receive a bed-pan directly under opening K in canvas E. This upper canvas E can be dispensed with by bringing up canvas D, so as to receive the weight of the patient.

Fig. 2 illustrates how a bed can be arranged for the convenience of the patient. The canvas next to the mattress in Fig. 2 is the same as canvas C, Fig. 1, and the canvas whereon the patient is located in Fig. 2 is the same as canvas D in Fig. 1, and in both figures the

canvases are secured to rolls at either end of the bedstead-frame and operated in the same way. It will be seen that in Fig. 2 there is a pillow or head-rest between the two canvases. This pillow or head-rest, by the use of rolls at either end of the bedstead-frame, operated by a crank and held in place by ratchets, can at will be raised up or let down for the comfort of the patient.

The bedstead or frame may be made of any material, but preferably iron, and the rolls may be iron or wood; so I would have it understood that I am not limited to the use of any particular material in the construction of my improved bed.

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

1. The divided canvas E, secured to roll 1, at the head of the bedstead, slitted for a portion of its length, a rod J, uniting the divided parts, said canvas provided with a bed-pan opening, and a narrow strip of canvas secured to rod J, and to roll 1, at the foot of the bedstead, in combination with an invalid-bedstead having posts B′ B′ B′ B′ carrying rolls 1, 2 and 3, side rails A A, end supports *a a*, all held together in the usual manner, as and for the purpose set forth and described.

2. Canvases C and D, secured to rolls 2 and 3, at either end of the bedstead-frame and having a pillow or head-rest, located, at the head of the bed and between said canvases, in combination with an invalid-bedstead having posts B′ B′ B′ B′, carrying rolls 1, 2 and 3, side rails A A, end supports *a a*, all held together in the usual manner, as and for the purpose set forth and described.

In testimony whereof I hereunto affix my signature, in presence of two witnesses, this 22d day of February, 1900.

DUSTIN MOULTON.

Witnesses:
E. M. WOOSTER,
WM. STONE.