

ISABELLA WALLER.

Improvement in Hospital Beds.

No. 124,398.

Patented March 5, 1872.

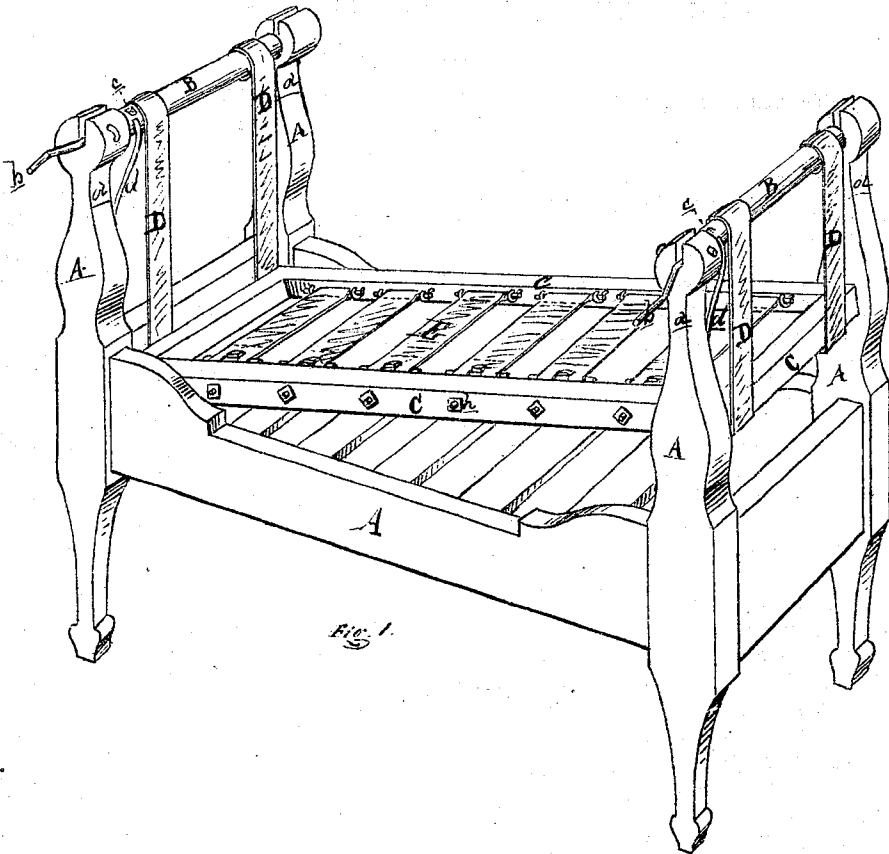


Fig. 1.

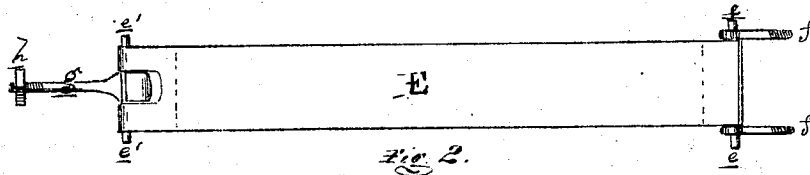


Fig. 2.

ATTEST

H. G. Everts
H. J. Sprague

INVENTOR:

Isabella Waller
by her attorney
H. J. Sprague

UNITED STATES PATENT OFFICE.

ISABELLA WALLER, OF CLEVELAND, OHIO.

IMPROVEMENT IN HOSPITAL-BEDS.

Specification forming part of Letters Patent No. 124,398, dated March 5, 1872.

To whom it may concern:

Be it known that I, ISABELLA WALLER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Hospital-Beds; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my bedstead, with the invalid-frame partly raised; and Fig. 2 is a detached plan view of one of the webs and its hook.

Similar letters of reference indicate corresponding parts in the several figures.

The nature of this invention relates to a hospital-bed and elevating-frame, so arranged that the patient may be lifted clear of the mattress and sheets without displacing his limbs or otherwise disturbing, so that the mattress and sheets may be changed without annoyance; and it consists in the novel and peculiar construction of the various parts, as more fully hereinafter set forth.

In the drawing, A represents a bedstead, with four corner posts, *a a a a*. B B are two windlasses, one being journaled in the tops of the posts at the head, and the other in the tops of the foot-posts, and each provided with a crank, *b*, by which it may be rotated. Both windlasses are so arranged as to be detachable from the bedstead when not required. On each winch or windlass is a ratchet, *c*, with which engages a spring-pawl, *d*, on the post, to secure the windlass at any point. C is a frame which just fits within the frame of the bedstead, and, by two slings, D D, at each end, is connected or suspended from the windlasses, so that, when the latter are rotated in the

proper direction, the frame can be lifted bodily from the plane of the bed. E are cloth webs, with a metallic rod, *e*, sewed across one end, to engage with pairs of hooks *f*, disposed on the inner edge of the frame at one side. *e'* are similar rods in the other end of such web, which engage with hooks *g*, which pass through holes in the other side of the frame, and are threaded on their outer projecting ends to receive nuts *h*, by which the webs may be stretched.

The operation of my improvement may be described as follows: A mattress and sheet are laid on the bedstead and on top the web-frame, which is then connected by its slings to the windlasses, when the bed is ready for the reception of the patient, who lies on the webs. When it is desired to change the under-bedding, or to introduce a vessel under him for stooling, the attendants rotate the windlasses, and elevate him with the frame without changing his position or disturbing him in any degree. By disengaging the pawls from their ratchets, the frame may be as readily lowered again to the bed. By slacking the nuts on the screw-hooks, the webs may be removed, one by one, without materially disturbing the patient, and in like manner be replaced, when required.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with the posts of a bedstead, of the windlasses B, cranks *b*, pawls *d*, ratchets *c*, slings D, frame C, provided with the adjustable detachable transverse webs E, substantially as and for the purpose set forth.

ISABELLA WALLER.

Witnesses:

OCTAVIA BATE,
T. H. BELL.