

W. Heath.

Invalid-Bedstead.

N^o 73008

Patented Jan. 7, 1868.

Fig. 1.

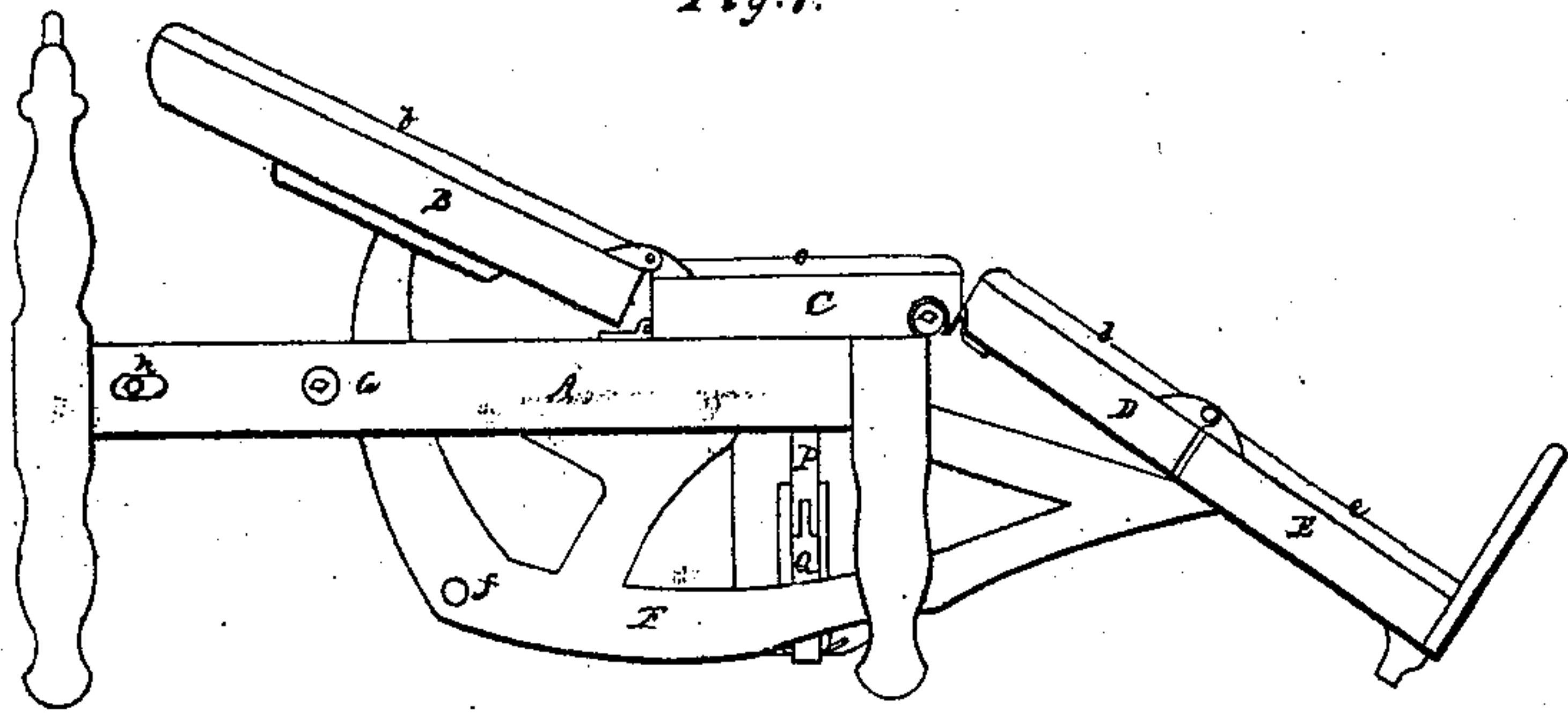


Fig. 2.

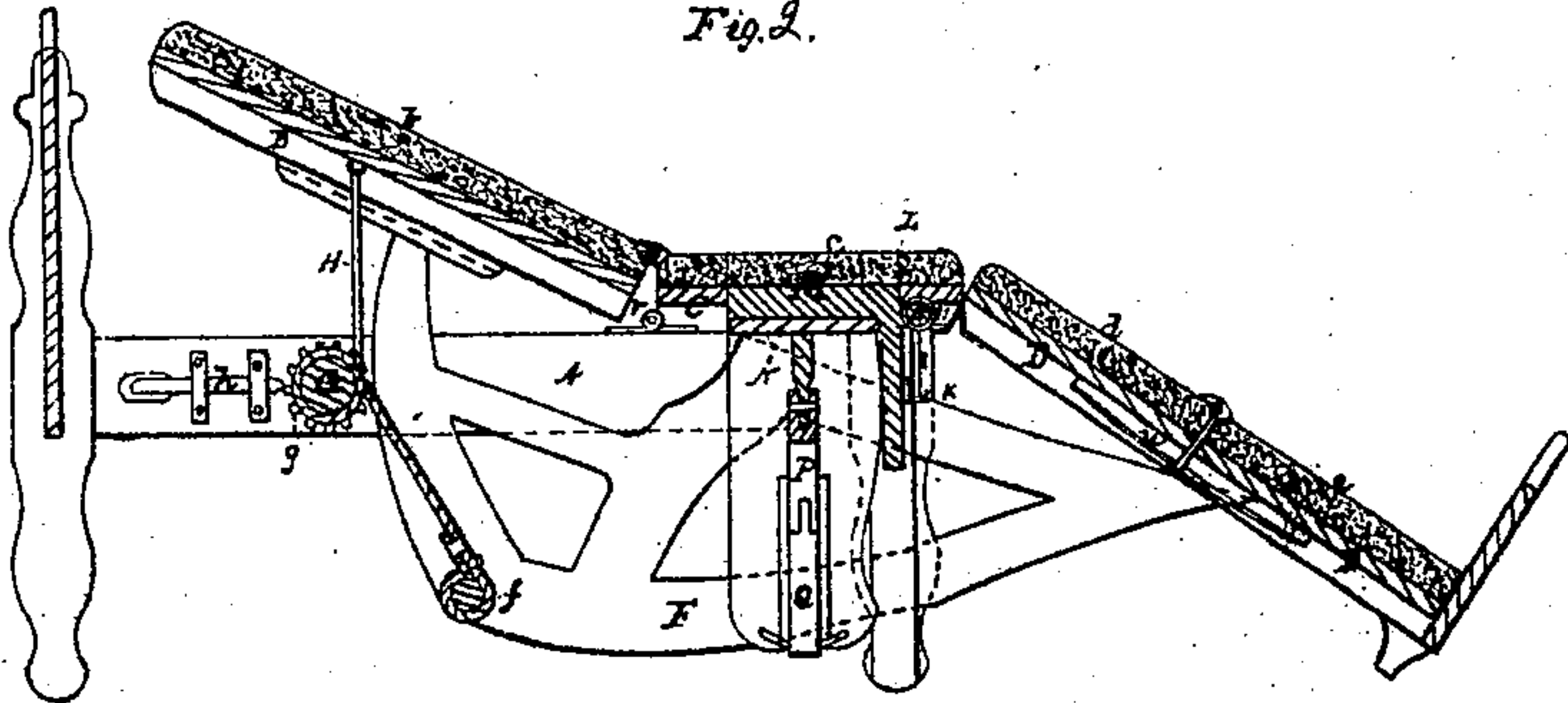


Fig. 3.

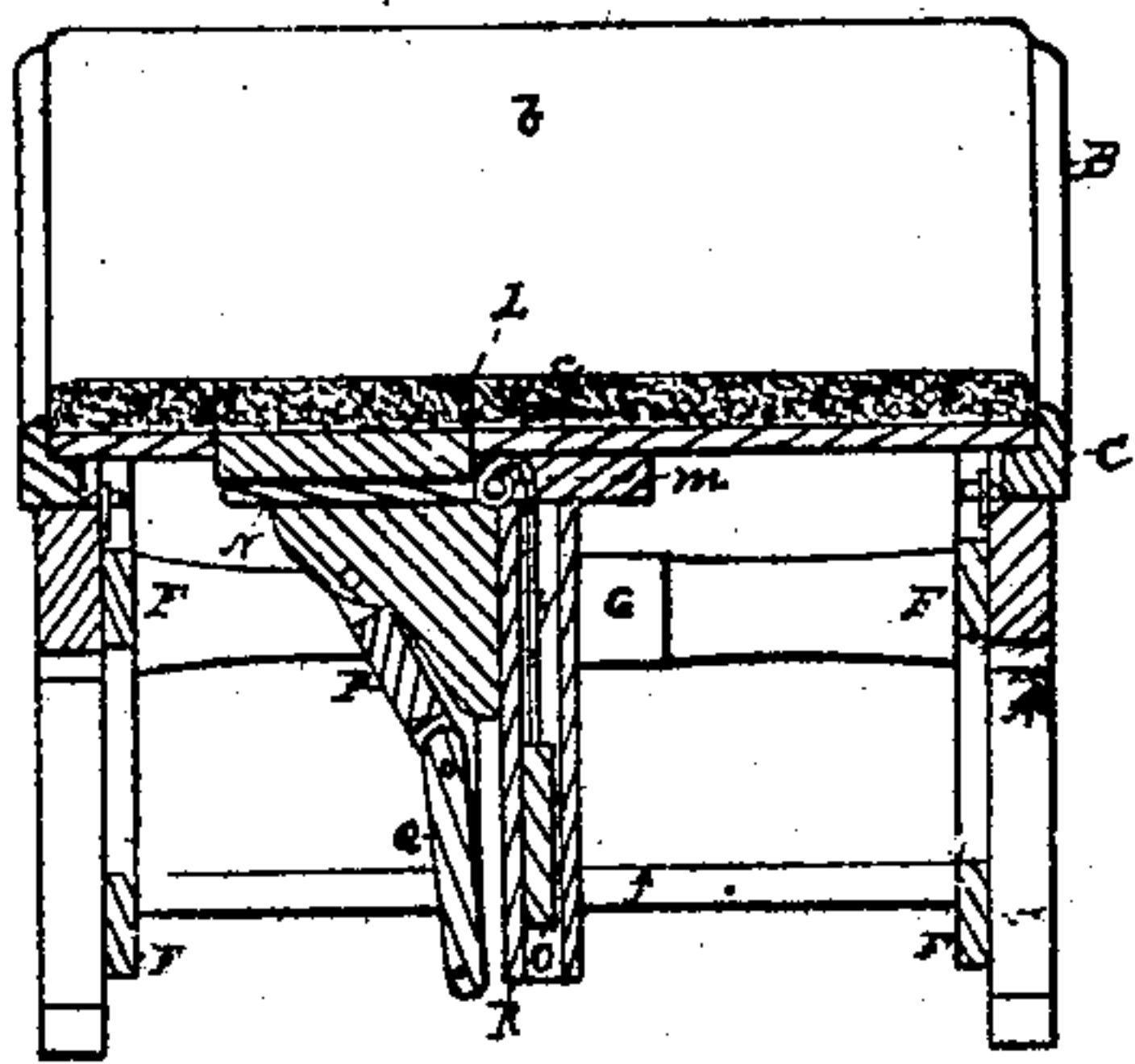
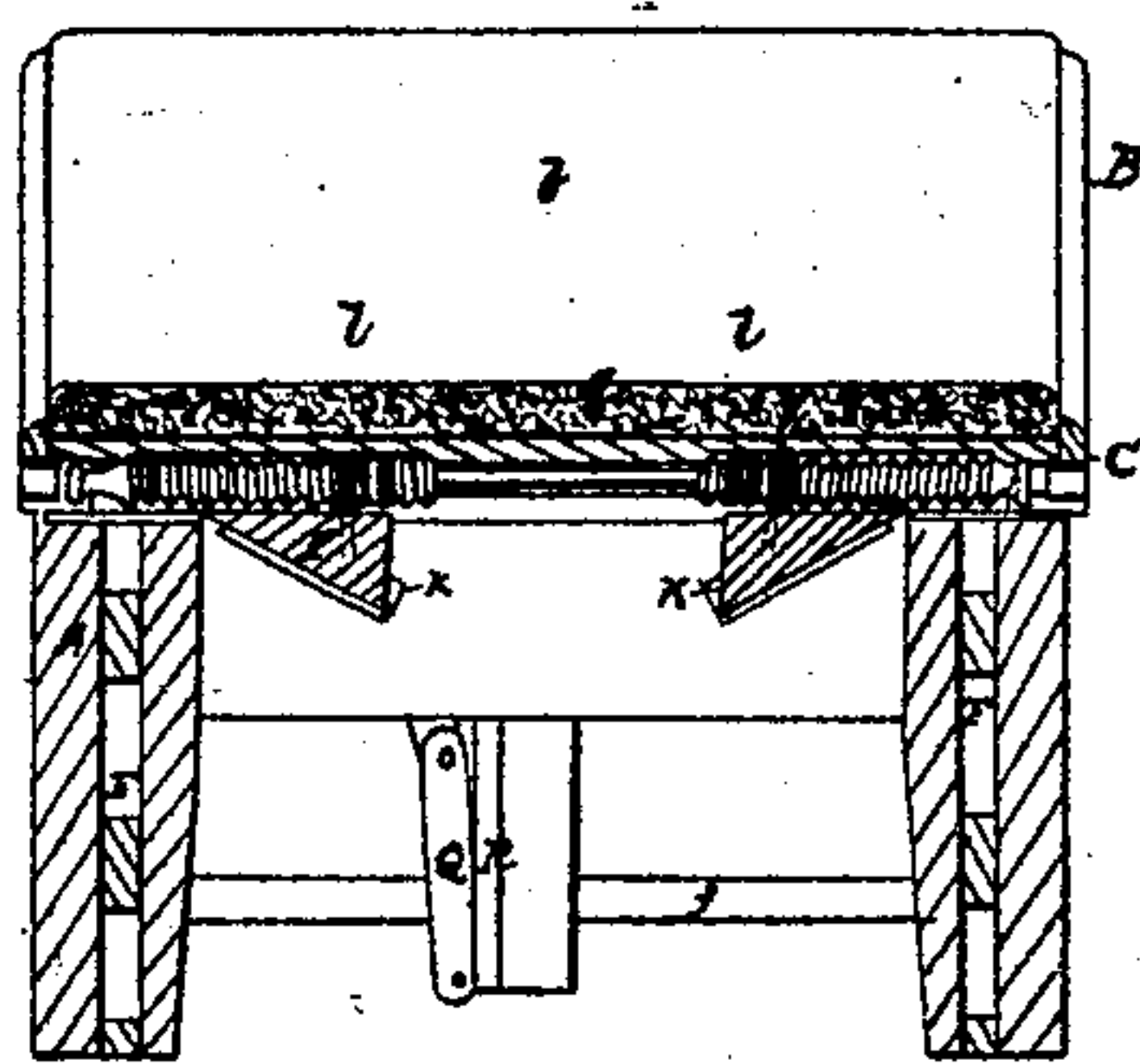


Fig. 4.



Witnesses
Samuel W. Piper.
Geo. W. Andrews.

Inventor
William Heath
by his attorney
R. H. Eddy

United States Patent Office.

WILLIAM HEATH, OF BATH, MAINE.

Letters Patent No. 73,008, dated January 7, 1868.

INVALID-BEDSTEADS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME:

Be it known that I, WILLIAM HEATH, of Bath, in the county of Sagadahoc, and State of Maine, have invented an Improved Invalid-Bedstead; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a side elevation, and

Figure 2 a longitudinal section of it.

Figure 3 is a vertical and transverse section.

Figure 4 is another vertical and transverse section, it being taken through the screws and inclined planes for elevating the seat-frame.

The sections of figs. 2 and 3 are taken through the pot-hole of the seat-frame.

In the said drawings, A denotes the frame for supporting the operative parts, it being made as represented, or otherwise suitably constructed. At or near the foot of this frame is what I term the seat-frame *c*, which, at its inner corners, is hinged to the rails *v v* of the frame A, and constitutes part of what I term the mattress-supporting frame, which is composed of four portions, B, C, D, E, all of which are to be arranged as represented in the drawings, each being suitably connected to that or those next to it by means of hinges, and upholstered or provided with cushions, as shown at *b c d e*. Within the frame A, and projecting from the back frame B, are two guides, F F, which are connected by a cross-bar, *f*, and project forward underneath the frames C D E, in manner as shown in figs. 1 and 2. In rear of these guides is a windlass or roller, G, which extends across and revolves in the frame A, and has a gear, *g*, at one end of it, there being a bolt, *h*, at the side of the frame A, to operate with such gear in holding the windlass G in position, or as occasion may require from revolving. A rope or cord, H, wound around the windlass, and attached at one end to the frame B, and at the other to the cross-bar *f*, serves, when such windlass is revolved by a key or crank applied to one of its journals, to elevate the back frame B into an inclined position. The bolt *h*, by being forced into the gear of the windlass, will retain the said frame at any inclination in which it may be adjusted. The leg-frame, composed of the two frames D E, and supported on the guides F F, will be lowered into an inclined position while the back frame B is in the act of being raised. The seat-frame has a mechanism applied to it to enable it to be raised into an inclined position. This mechanism consists of a screw-shaft, H', two wedges, I I, and two inclined planes, K K. The screw-shaft is supported in bearings *i i*, connected with the seat-frame, and such shaft has two male screws, *k k*, made upon it. They screw through ears, *l l*, extending from the wedges I I. The said wedges rest on inclined planes, K K, affixed to the front end of the frame A. By applying a key to the screw-shaft H', and revolving the said shaft, the wedges may be moved lengthwise on the inclined planes so as to effect the elevation of the seat-frame to any desirable inclination within the limits of its motion. There is a round hole, L, through the seat-frame, such hole being provided with a cover, M, to fit to it. Such hole is to enable an invalid to make the usual necessary fecal and urinal evacuations into a vessel or pot when placed on an adjustable platform or bracket, N, arranged below the hole, and supported by a weight, O, suspended from the said bracket by a cord, *y*, going over a guide or pulley, *m*. The bracket N slides vertically within an arm, R, projecting down from the seat-frame, and it is connected to the arm by a set of toggles, Q R, such serving, when the bracket is at its highest position, to hold it there. The weight is to support the bracket, and a vessel thereon, and to elevate them, so as to bring the vessel up through the hole in the seat, and closely against a person when seated over or lying upon the hole.

An invalid-bedstead, made as hereinbefore explained, and as represented in the accompanying drawings, is calculated to be of great convenience to a sick person, or to an individual who may be suffering from a fever or other illness, or a fracture or amputation of a limb. It is much more simple, in several particulars, than that heretofore patented by me. The foot-frame E is hinged to the thigh-frame D in such manner that it can be turned upward and over and upon the said thigh-frame when the bedstead may not be in use; such foot-frame, when down in range of the leg-frame, being supported by means of one or more projections or arms, *u u*, extending from the said leg-frame. The peculiar application of the foot-frame enables the bedstead to be reduced in compass for transportation, or being stowed away.

In the above-described invalid-bedstead I claim as my invention the following, viz :

I claim the arrangement and the application of the windlass, G, and its cord, H, and the gear *g* and bolt *h* thereof, with the back frame B, and the main frame A of the bedstead, substantially as described.

I also claim the combination of the movable bracket N, and its supporting-cord and weight, O, with the seat-frame C, and its arm, R, as set forth.

I also claim the seat-elevating mechanism, and its arrangement with the main frame and the seat-frame, as specified, such seat-elevating mechanism consisting of the shaft H', its screw or screws, *k k*, and one or more wedges I I, and inclined planes, K K, to operate together, as explained.

I also claim the combination of the toggles P Q with the movable bracket N, its supporting-weight, *o*, and arm, R, as hereinbefore described.

WILLIAM HEATH.

Witnesses:

J. C. LOWELL,

F. E. WILSON.