

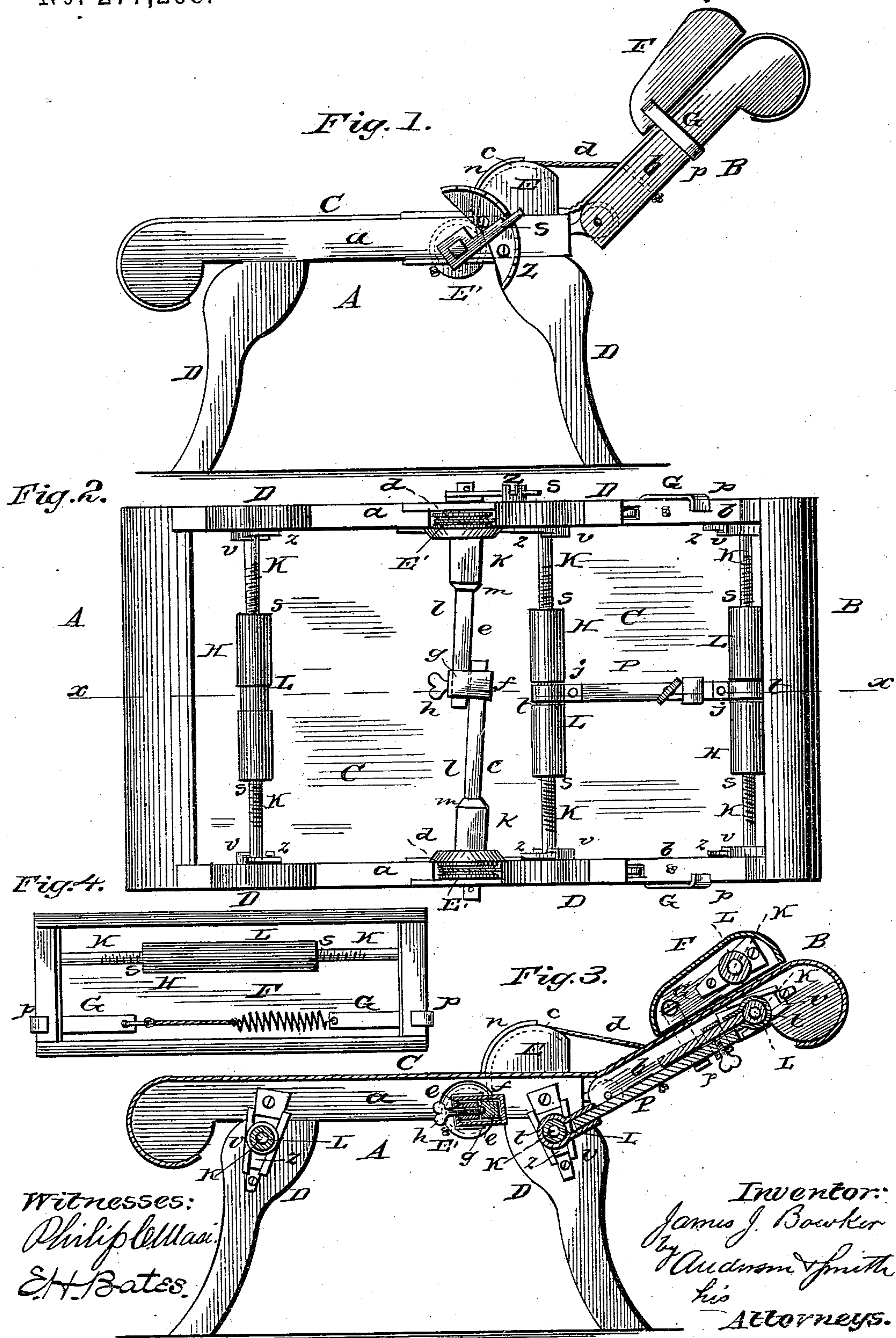
(No Model.)

J. J. BOWKER.

INVALID BED.

No. 277,208.

Patented May 8, 1883.



UNITED STATES PATENT OFFICE.

JAMES J. BOWKER, OF LA OTTO, INDIANA.

INVALID-BED.

SPECIFICATION forming part of Letters Patent No. 277,208, dated May 8, 1883.

Application filed March 17, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES J. BOWKER, a citizen of the United States, and a resident of La Otto, in the county of Noble and State of Indiana, have invented certain new and useful Improvements in Invalid-Beds; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side view of my bed. Fig. 2 is a bottom view. Fig. 3 is a vertical sectional view of the same, and Fig. 4 is a detail view.

This invention has relation to invalid-bedsteads or adjustable cots or lounges; and it consists in the construction and novel arrangement of the right-and-left screw-brace having the wedge-form attachment ends adapted to engage slide-seats on the framing, the raised and grooved side bearings of the side bars, the side pulleys, and the rope-supports extending from said pulleys to the hinged head portion of the frame, the sectional and removable shaft in connection with the side pulleys, and the supporting-ropes for the head portion of the frame, the sliding head-rest having spring-arms engaging the sides of the head portion of the frame, and the sectional adjustable brace engaging the transverse bars or braces of the main frame and head frame or back, all as hereinafter set forth.

In the accompanying drawings, the letter A designates the main frame, and B the head portion or back frame, the side bars *b* of which are hinged to the side bars *a* of the main frame.

C indicates the canvas bottom, which extends across between the side bars of the framing, to which it is attached. The side bars *a* of the main frame are provided with legs D. On the side bars *a*, near the ends adjoining the back frame, are provided raised bearings E, which may serve as arm-supports. These bearings are curved in convex form on their upper edges, *e*, which are grooved to form seats for the supporting cords or ropes *d*, which are attached each by one end to the back frame and by the other end to pulleys E',

the sectional shafts *e* of which are journaled in the side bars *a* of the main frame. These sectional shafts *e* are designed to lap upon each other, as at *f*, and are connected and fastened by means of a strap, *g*, and set-screw *h*. Each sectional shaft *e* consists of a hub portion, *k*, and a shank portion, *l*, which is squared, and engages by its outer end a square bearing, *m*, in the hub portion. The shank portions *l* of the shafts *e* are removable, in order that the cot or lounge may be folded together when not in use.

Covering-plates *n* extend over the grooved rope-bearings E to protect the ropes and provide a guard to prevent the arm or hand of the occupant from coming in contact with said ropes.

F indicates a sliding head-rest having at each end a downwardly-extending spring-arm, G, the lower end of which is turned inward, forming a catch, *p*, which engages the under edge of the side bar *b* of the back frame, B. The head-rest therefore can easily be adjusted to a higher or lower position. The side bars of the framing are strained apart to brace the frame in position and stretch the canvas by means of the right-and-left screw-braces H, each of which consists of the right and left screws K, respectively working in threaded bearings *s* in opposite ends of a central nut-sleeve, L. The right and left screws K are each provided with a wedge-form foot or flange, *z*, at the outer end, which is designed to engage a slide-seat, *v*, of tapering form on the side bar. These screw-braces H are therefore detachable, being easily lifted out of the slide-seats. When the screw-braces are in position the frame is easily braced by turning the nut-sleeves L to force outward the right and left screws against the side bars. One of these screw-braces is located near the head end of the main frame and another near the outer end of the back frame, and these two may be connected by means of a sectional adjustable brace, P, the arms of which are provided with strap-loops *t*, engaging annular groove-bearings *j* of the nut-sleeves L. The adjacent ends of the arms of the sectional brace are connected by strap-bearing and set-screw to form an adjustable lap-joint.

This cot or lounge bed is easily adjusted by turning the shaft to which the pulleys are con-

nected, and thus raising or lowering the head portion of the frame. The adjustment is secured by means of an arm, S, connected to the outer end of the shaft, which engages a rack-catch, Z, which is secured to the side of the frame.

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

10 1. In a folding cot or lounge, the right-and-left screw-braces having wedge-form attachment ends adapted to engage slide-seats on the framing, substantially as specified.

15 2. In a folding cot or lounge, the pulleys and cord attachments to the back frame, the raised grooved bearings on the side bars over which the cords pass, and the device for securing the adjustment of the pulley-shaft, substantially as specified.

20 3. The sectional shaft of the pulleys, consisting of hub portions and detachable lap-

ping shank portions, adjustable with reference to each other, in combination with the cord-supports connecting the hinged head portion of the frame to the pulleys, substantially as 25 specified.

4. The combination, with the side bars, of the sliding adjustable head-rest having spring-arms engaging said side bars, substantially as 30 specified.

5. The combination, with the right-and-left screw-brace on the back frame and a right-and-left screw-brace of the main frame, of a sectional adjustable brace engaging said screw-braces, substantially as specified. 35

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

JAMES J. BOWKER.

Witnesses:

JOHN DRAKE,
MINNIE STONER.