

(No Model.)

H. A. SCOTT.
Adjustable Spring Bed Bottom.

No. 238,974.

Patented March 15, 1881.

fig. 1.

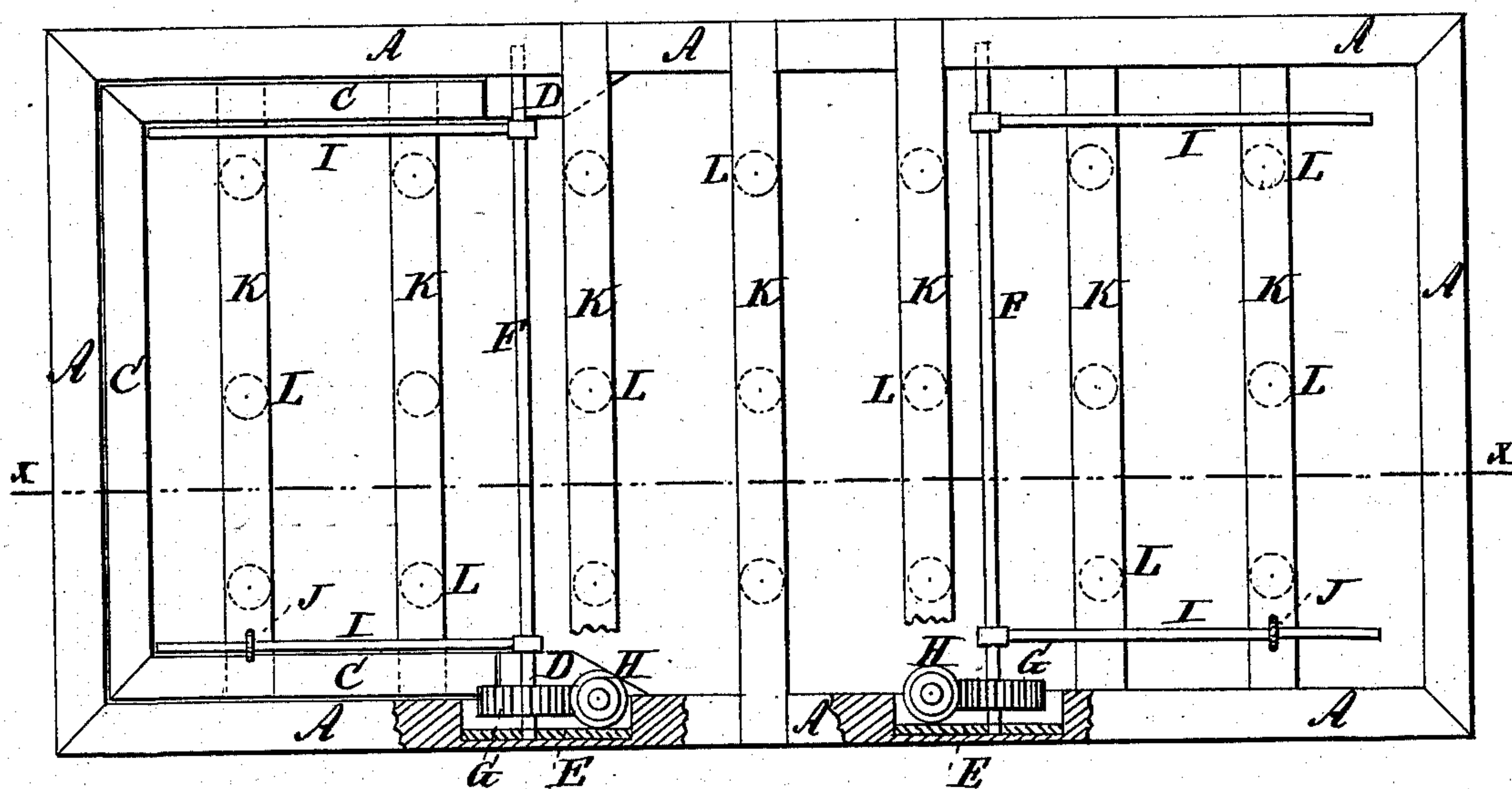


fig. 3.

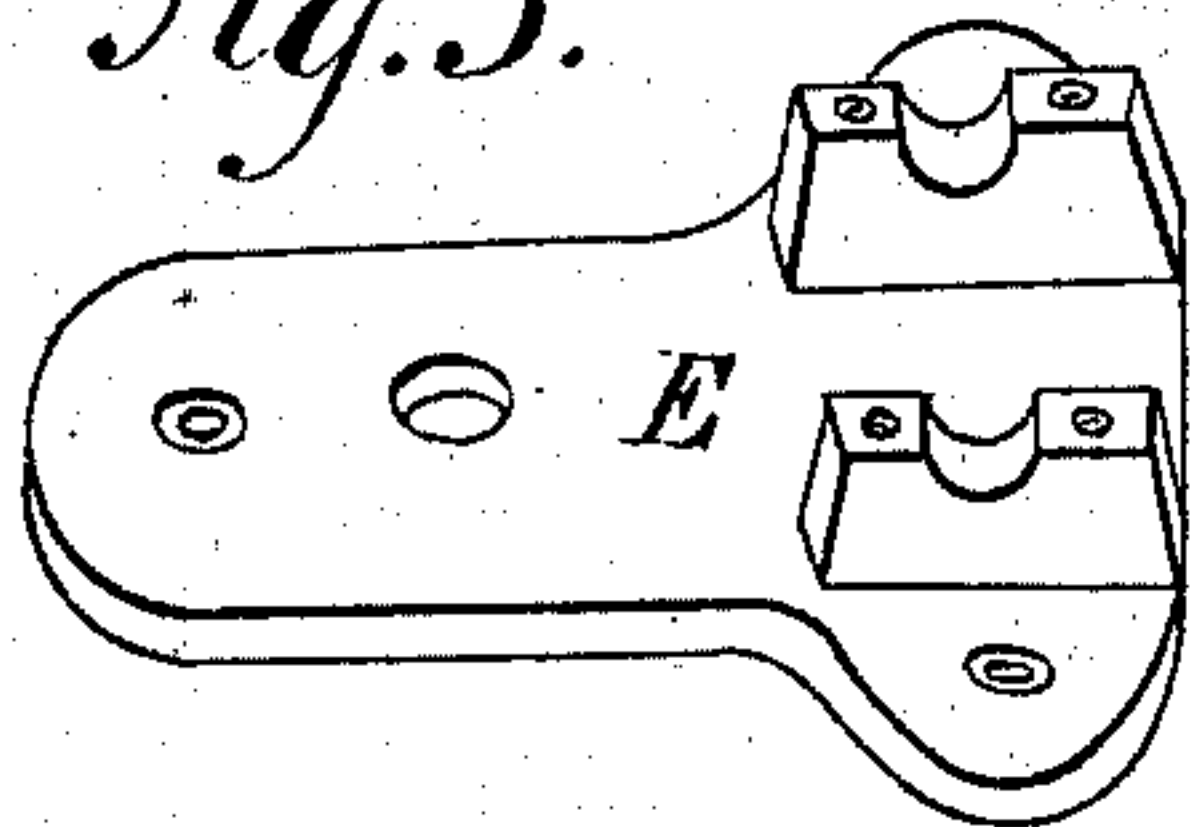


fig. 2.

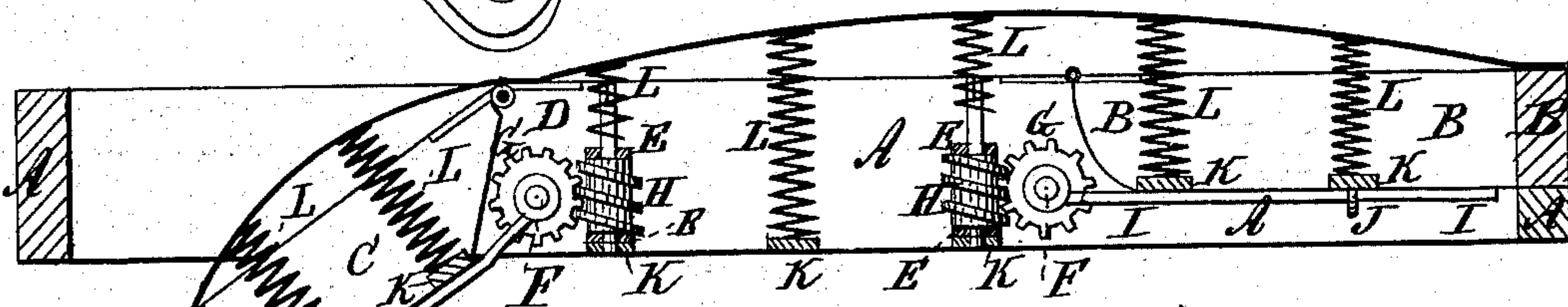


fig. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY A. SCOTT, OF ATHOL, MASSACHUSETTS.

ADJUSTABLE SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 238,974, dated March 15, 1881.

Application filed October 13, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY ALFRED SCOTT, of Athol, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Adjustable Spring Bed-Bottoms, of which the following is a specification.

Figure 1 is an under-side view, partly in section, of the improvement. Fig. 2 is a sectional elevation taken through the line *xx*, Fig. 1. Fig. 3 is a perspective view of one of the bearings for the worm and worm-wheel. Fig. 4 is a top-plan view.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish invalid-bed bottoms having head and foot sections capable of easy adjustment in horizontal or inclined positions, which may be used with and easily removed from ordinary bedsteads and be easy of transportation.

The invention consists in combining with the frame of the bed-bottom and with the hinged section frames at the head and foot of the bed-bottom, having cross-shafts, provided with rigid arms and worm-gearings for operating the shafts, whereby the hinged sections can be conveniently raised and lowered, as will be hereinafter fully described.

A represents the frame of the bed-bottom, which may be placed within the frame of an ordinary bedstead, two or three of the slats at the foot of the bed-bottom adapted to be removed to allow the foot-section of the bed-bottom to be swung down when required.

At the head of the bed-bottom the upper part of the side and end bars of the frame A are cut away, and in the space thus formed is fitted a section of a frame, B, the inner ends of the side bars of which are hinged to the shoulders of the side bars of the frame A, as shown in Fig. 2.

Within the frame A, at the foot of the bed-bottom, is placed a section of a frame, C, which is hinged at the ends of its side bars to blocks D, attached to the inner sides of the side bars of the frame A, so that the section C can be swung down into an inclined position.

To the side bars of the frame A, at the inner ends of the side bars of the sections B C, or to bearings E, attached to the said side bars, are pivoted the ends of two shafts, F, to which, at the inner side of one of the side bars of the frame A, is attached a worm-

wheel, G, the teeth of which mesh into the threads of the worms H, pivoted to bearings E, attached to the side bars of the frame A, or to other suitable bearings. The ends of the upper journals of the worms H are squared to receive a key or wrench for turning the said worms H.

To each of the shafts F are rigidly attached arms I, which slide through keepers J, attached to the frames B C, or to the cross-bars attached to the said frames B C. With this construction, when either of the shafts F is turned, by turning the worm-gearing H G the arms I will raise or lower the one of the frame-sections with which they are connected, according to the direction in which the said worm-gearing is turned. With this construction the change of position will be made so gradually and steadily that the invalid will receive no annoyance or pain.

To the lower edges of the middle parts of the side bars of the frame A, and to the lower edges of the side bars of the frame-sections B C, are attached cross-bars K, to which the lower ends of the spiral springs L are attached.

The upper ends of the spiral springs L are attached to the ticking, canvas, metal straps, or other connection upon which the bedding rests.

I am aware that it is not new to make bed-bottoms having head and foot sections capable of adjustment; but such bed-bottoms are cumbersome and difficult of transportation; but I am not aware that bed-bottoms adapted to be used in connection with and easily removed from any ordinary bedstead, as well as possessing the advantage of being conveniently transported, have been so constructed.

What I claim is—

A bed-bottom provided with hinged adjustable head and foot sections and adapted to be used with and easily removed from an ordinary bedstead, consisting of the frame A, sectional frames B and C, the latter hinged to block D, slats K, springs L, bearings E, worms H, shafts F, worm-gears G, fixed arms I, and keepers J, all arranged as and for the purposes specified.

HENRY A. SCOTT.

Witnesses:

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