

J. D. BRUNNER.
Invalid Bed-Bottoms.

No. 134,460.

Patented Dec. 31, 1872.

Fig 1

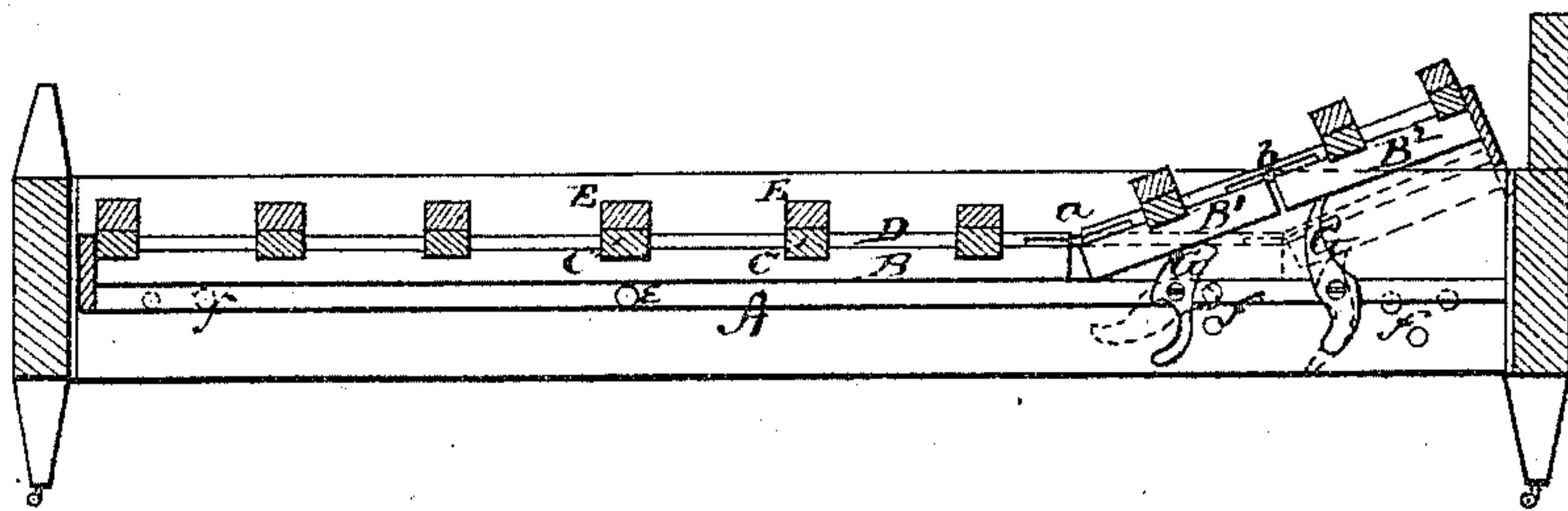


Fig 2

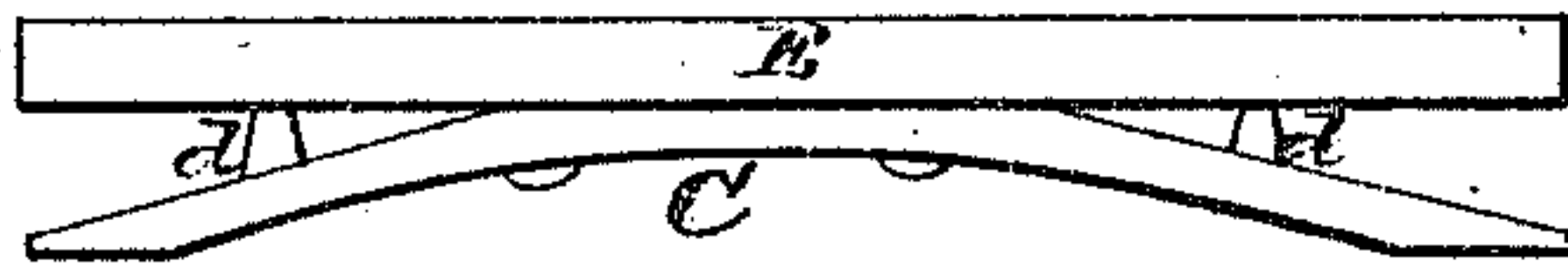
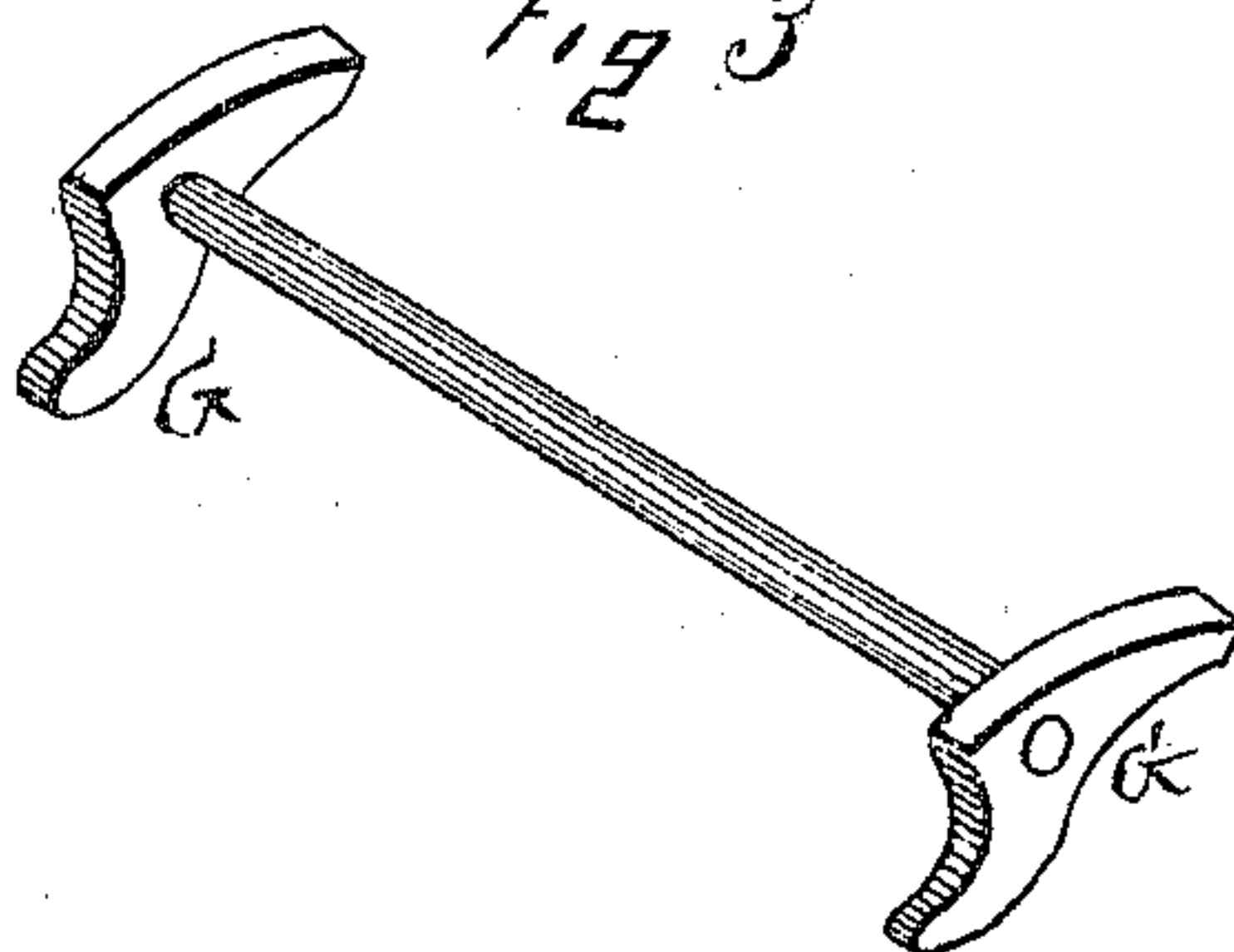


Fig 3



Witness:
Frank L. Durand.
C. L. Everts.

Inventor.
Jno. D. Brunner,
Per Alexander Mavor
Attorneys.

UNITED STATES PATENT OFFICE.

JOHN D. BRUNNER, OF DOYLESTOWN, PENNSYLVANIA.

IMPROVEMENT IN INVALID-BED BOTTOMS.

Specification forming part of Letters Patent No. 134,460, dated December 31, 1872.

To all whom it may concern:

Be it known that I, JNO. D. BRUNNER, of Doylestown, in the county of Bucks and in the State of Pennsylvania, have invented certain new and useful Improvements in Invalid-Bed Bottom; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of an invalid-bed bottom, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section of my bed-bottom; and Fig. 2 is a side view of one of the sets of springs used in the same; Fig. 3 represents a view, showing two cams connected to a cross-shaft under the head of the bed-bottom.

A represents a wooden bar on each side of the bed-bottom, forming the sills of the same, and upon each of said bars is secured another bar, B, having joints at *a* and *b*. In the bars B B, on the upper side, are notches or recesses, at suitable and regular intervals, to receive the ends of wooden springs C C, which are confined in their places by cleats D D nailed on top of the same, said cleats being made in parts to correspond with the jointed bars B B. On the center of each spring C is secured a slat or bar, E, extending in the same direc-

tion as the spring, and between the ends, or suitable distances inward from the ends, are placed rubber blocks *d d*. The parts B¹ and B², which are jointed at *a* and *b*, form, as mentioned, parts of the bar B, and are intended to be elevated at any angle desired. Both of said parts may be raised or elevated together, as shown, thus raising the head and body of the person lying on the bed; or the part B² may be elevated, raising the head only.

The means for raising these parts are cams G G, the corresponding two of which, on opposite sides of the bed, are placed on one shaft, and are operated together from either side of the bed, as shown in Fig. 3.

The bed-bottom thus constructed is hung to the side pieces of the bedstead by pivots *e e* at or near the middle and supported by pins *f* at both ends. By taking out the supporting-pins at the foot it will drop down and raise the hind or head end, which, in some cases, is of great importance.

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

The combination of the pivoted frame A B, having jointed sections B¹ B², springs C C, cleats D D, slats E E, and cams G G, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of November, 1872.

JOHN D. BRUNNER.

Witnesses:

A. P. SCHURZ,
T. P. MILLER.