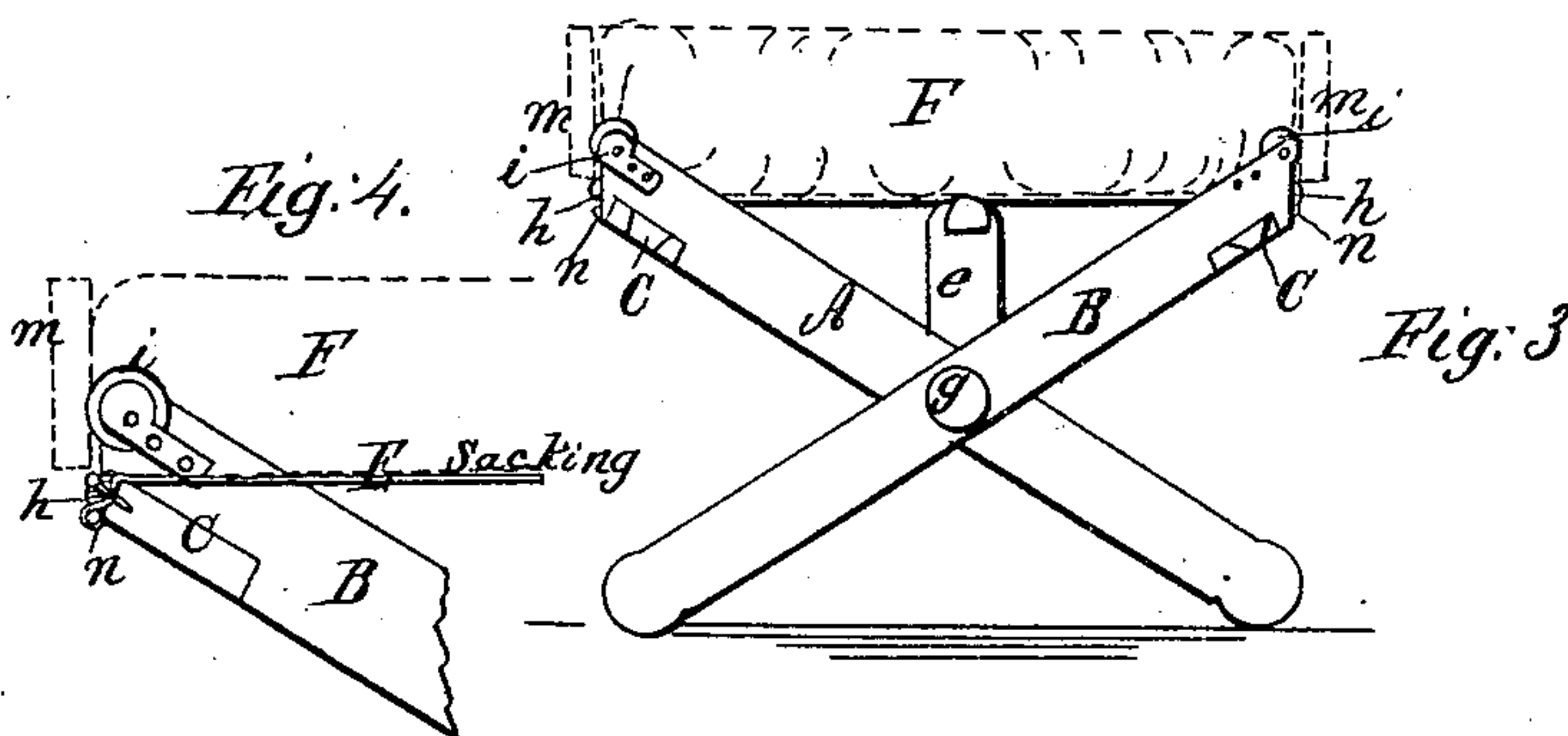
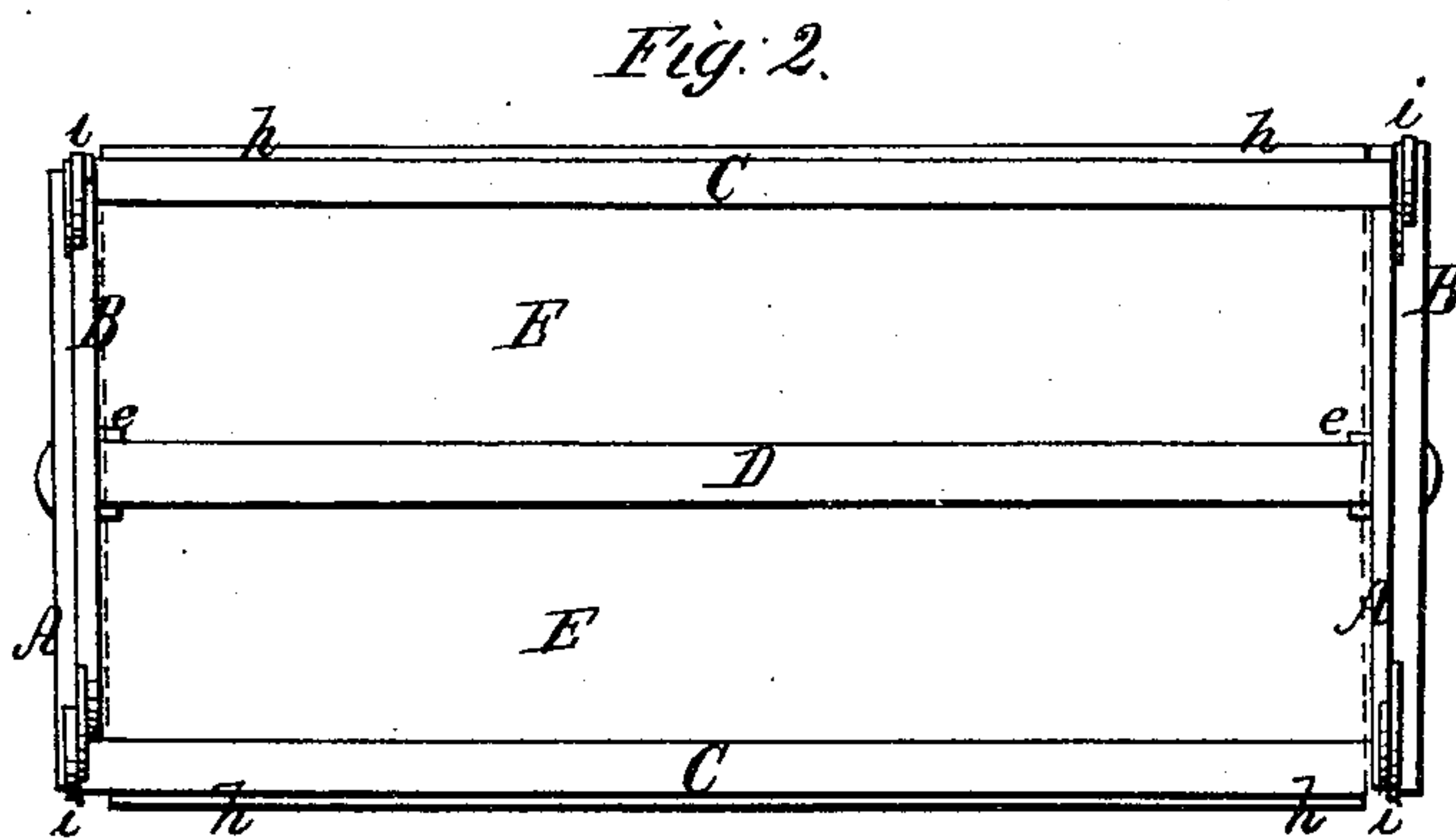
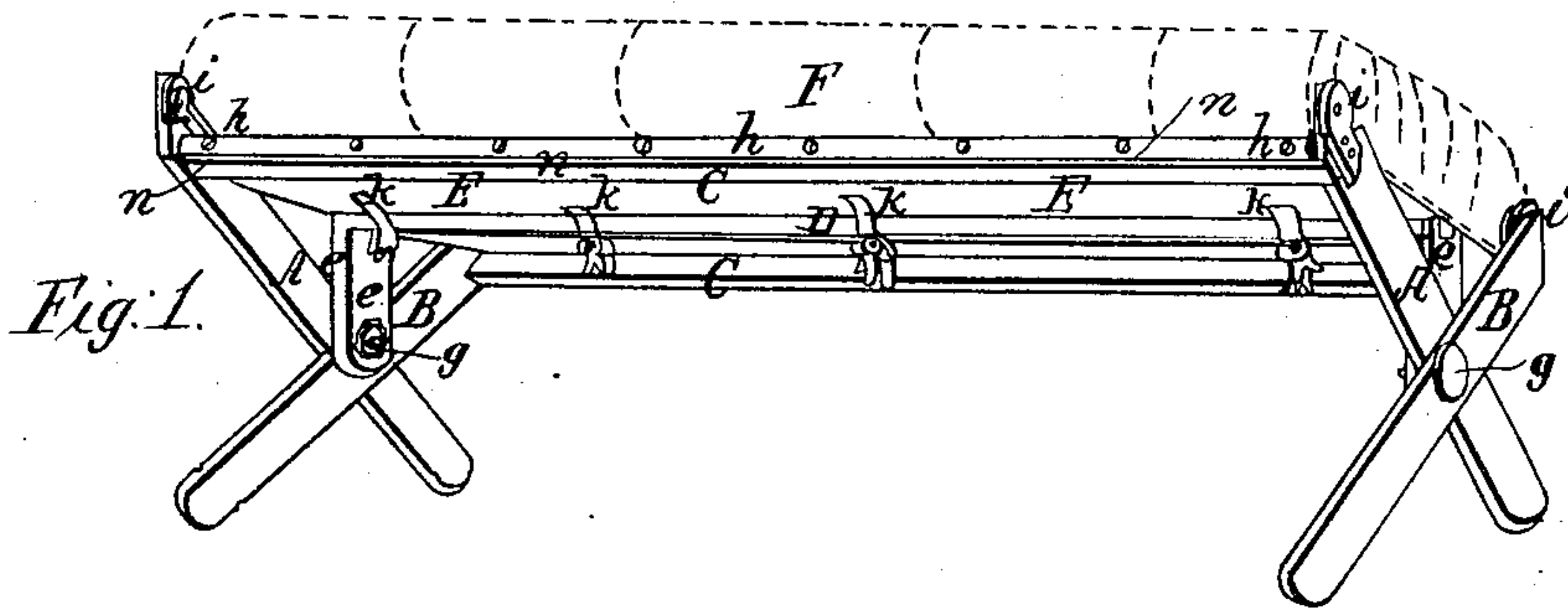


*E. K. Garretson,*

*Camp Bed,*

*No. 81,358,*

*Patented Aug. 25, 1868*



*Witnesses;*  
*Edmunds Hudson*  
*Barnard Bailey*

*Inventor;*  
*E. K. Garretson*

# United States Patent Office.

ELI K. GARRETSON, OF OTTAWA, ILLINOIS.

Letters Patent No. 81,358, dated August 25, 1868.

## IMPROVED EXPANDING-BOTTOM FOR BEDS, SEATS, &c.

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

Be it known that I, ELI K. GARRETSON, of Ottawa, in the county of La Salle, and State of Illinois, have invented a new and useful device for beds, cots, sofas, lounges, and seat-bottoms, called Eli K. Garretson's "Pressure-Expanding Bottom," for beds, seats, &c.; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a perspective view.

Figure 2, a "plan."

Figure 3, end elevation, showing its adaptation to bedsteads, seats, &c.

Figure 4, diagram of extremity of one of cross-pieces, showing mode of attaching sacking, or support for mattress or seat, to side-stretchers.

I connect the ordinary two pair of cross-legs of a cot by side-stretchers C C, by a dove-tail or other fastening. The stretchers may be of any required size, to suit requirements.

Over the outward edges of the stretchers the sacking or bands E are fastened by the following means: The sacking has sewed into its outer edge, along the length of it, a cord, *n*, which is brought over the edge of stretcher C, and kept down by fastening over it the rod or slat *h*, which runs the length of stretcher, and is fastened with screws, or equivalents, to perpendicular outer edge of stretcher, just above the confined cord *n*, just mentioned. This strip or rod may be one-half to three-fourths of an inch wide, showing a semicircular face, but fitting flat against stretcher, the sacking or support of bed or seat passing between it and stretcher, the lower edge of rod fitting against the rope edging of sacking, confining same, and perfectly securing edge of sacking.

For the fastening of said rod *h* to stretcher C, screws, nails, or other fastenings may be used.

The cross-legs A B are made of any required size, to suit beds, lounges, cots, pews, railway-seats, &c., and for most purposes it may be most convenient to be set into a frame, which will surround the lower sides of cushion or mattress, as the case may be, the upper outer end of each cross-leg having a pulley or friction-roller fastened thereto, the circumference of which will project beyond end of leg far enough to allow the legs to settle or subside under pressure.

The pulleys or rollers are seen best in fig. 3, *i i*, where also the side-frame or enclosing-box *m* is figured by the dotted lines.

In the application of this "bottom" to a bedstead, the slats or sacking is removed from bedstead, and this apparatus (complete in fig. 1) placed within bedstead *m*, the rollers *i i* touching sides of same, as in fig. 3, letter *m*.

The middle of sacking E of this "bottom" is supported by a flexible bar, D, running longitudinally from one pair of legs to the other, and bolted, screwed, or fastened in some permanent manner, at each end, to an upright support, *e*, the lower end of which support rests on the bolt or fastening uniting the legs, the bolt passing through both support *e* and legs A B. This bar D is intended to extend or spread the sacking E to its utmost extent, by its pressure on the axis of cross-legs, thus widening their arms and tightening the sacking; thus the sacking is made to accommodate its tension to the weight imposed thereon.

The bar D, I make of size to suit requirements, and either of wood or metal, and having its upper surface slightly rounded, and should be made, if of wood, thin enough to be slightly flexible; if of iron, it may have a much greater breadth than thickness, so as to give it the required flexibility. This bar D may be fastened by tapes, or other (*k*) like fastenings, to the sacking E, at intervals, along the under side of sacking.

The operation of this bed or seat "bottom" is as follows: On pressure on mattress or cushion F, the greater portion of weight comes on to the sacking over the horizontal bar D, the perpendicular supports of which, *e e*, resting on the bolts *g*, at the intersection of cross-legs A B, extend the legs, and tighten the sacking, so as to make a perfectly level bed or seat.

This invention may be applied to any purpose which it might suit.

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

The construction of a cot, bed, or seat, with a flexible bar, D, in combination with legs A B, stretchers C C, supports *e e*, bolts G G, and friction-rollers *i i*, the bottom of the cot being of canvas or other suitable materials, and secured by means of cords, fastened to the edges, with rods *h h* and stretchers C C, substantially in the manner and for the purposes described.

Witnesses:

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ELI K. GARRETSON.