

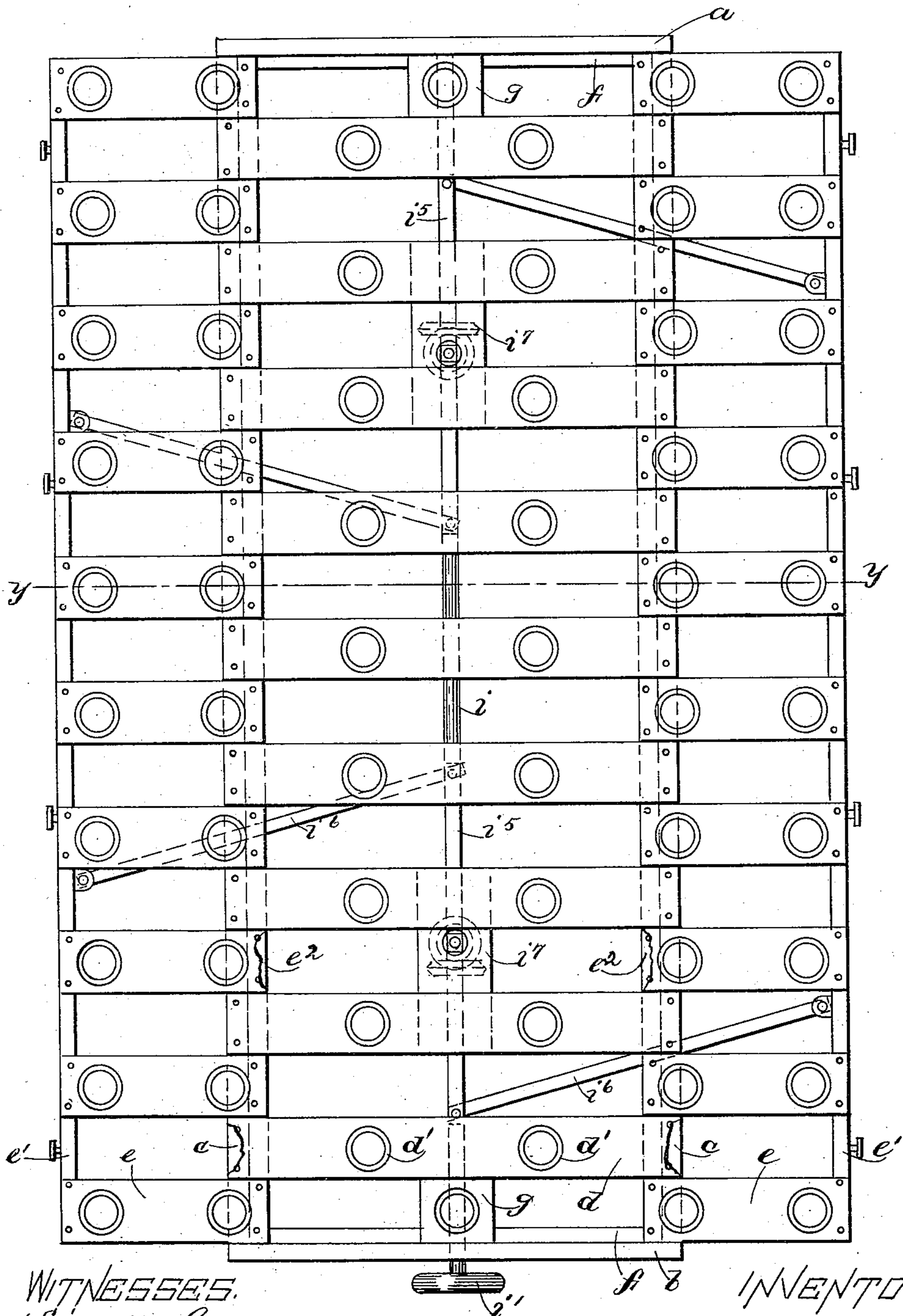
(No Model.)

2 Sheets—Sheet 1.

B. J. NOYES.
LOUNGE OR COUCH BED.

No. 547,126.

Patented Oct. 1, 1895.



WITNESSES.
Lucy F. Graves.
Chas. D. Crocker.

INVENTOR.
Bernice J. Noyes.

(No Model.)

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Fig. 2.

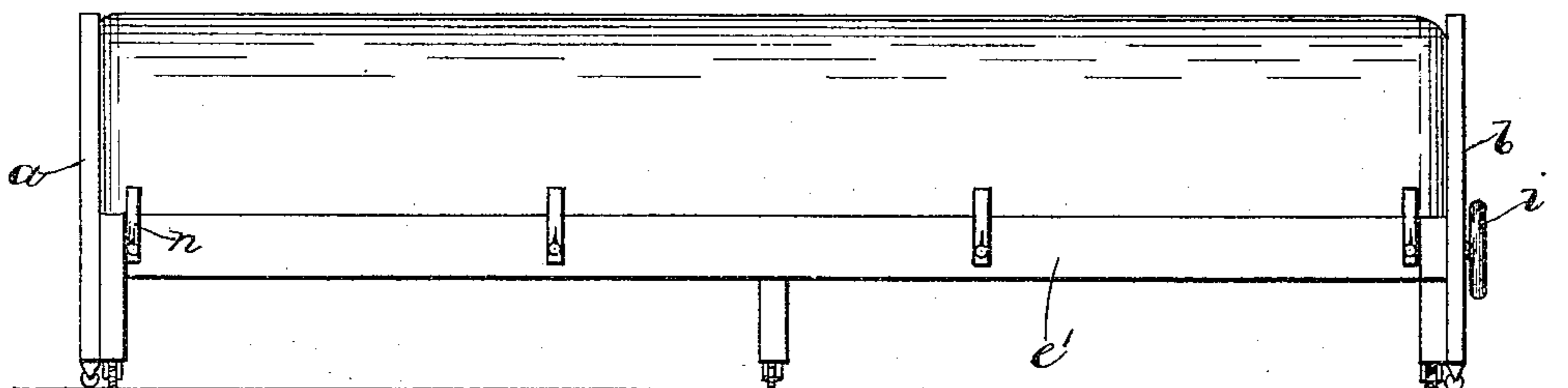


Fig. 3.

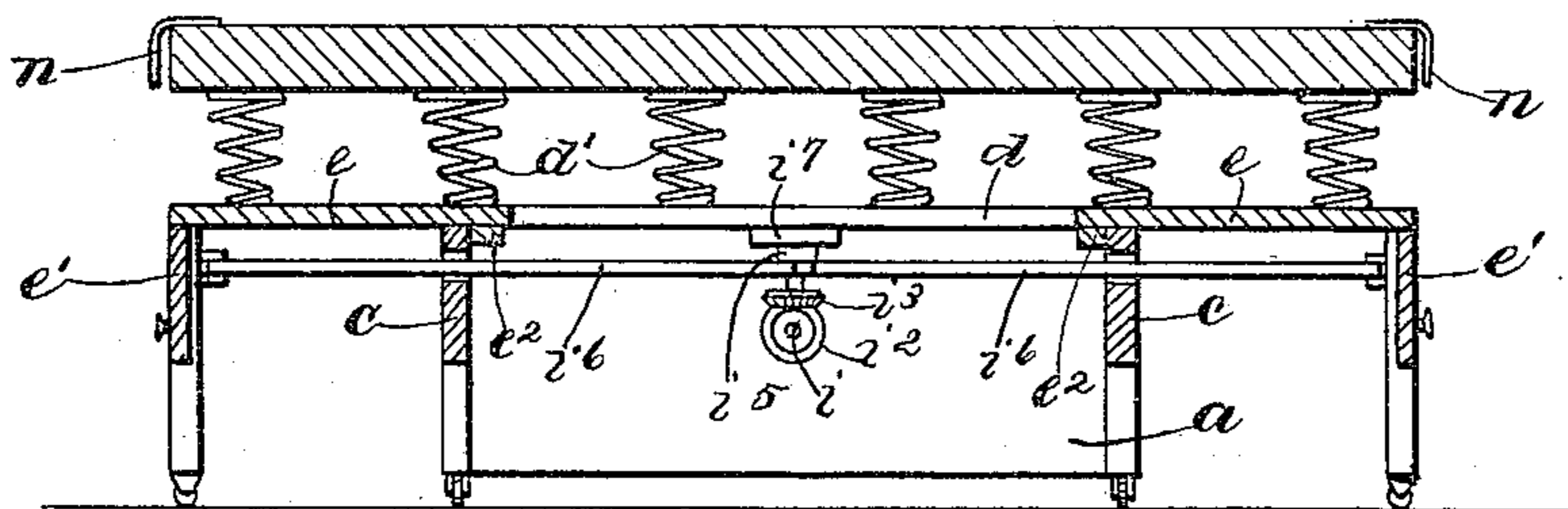
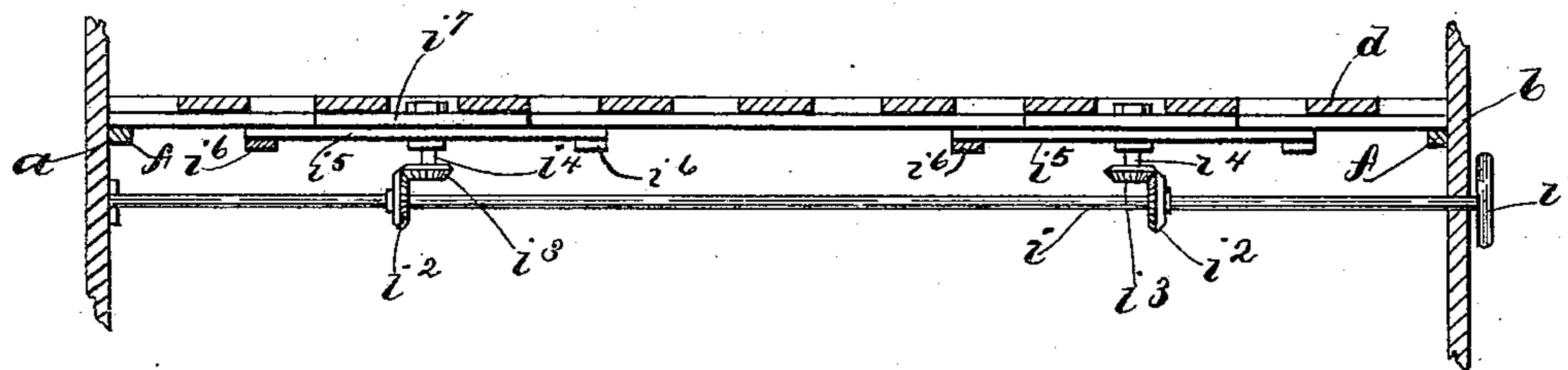


Fig. 4.



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UNITED STATES PATENT OFFICE.

BERNICE J. NOYES, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE BOSTON
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LOUNGE OR COUCH BED.

SPECIFICATION forming part of Letters Patent No. 547,126, dated October 1, 1895.

Application filed November 9, 1892. Renewed February 23, 1895. Serial No. 539,494. (No model.)

To all whom it may concern:

Be it known that I, BERNICE J. NOYES, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Lounge or Couch Beds, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to improve the construction of transversely-extensible lounge or couch beds; and it consists in details of construction to be hereinafter pointed out in the claims.

Figure 1 shows in plan view a transversely-extensible lounge or couch bed embodying this invention, the parts being extended; Fig. 2, a side elevation of the made-up couch; Fig. 3, a cross-section of the parts shown in Fig. 1, taken on the dotted line *y y* on a smaller scale, having a full-width mattress laid upon the springs; Fig. 4, a longitudinal section of the parts shown in Fig. 1, likewise taken on a smaller scale.

The head-board *a* and foot-board *b* are made quite narrow, being of the width desired for the couch, and rigidly secured together by side bars *c c*. A series of short transverse slats are rigidly secured to said side bars *c c*, at short distances apart, by nails or otherwise, which slats support the springs *d'*. A series of short transverse slats *e* are provided at each side of the bed, arranged alternately with relation to the slats *d*, so as to move between said slats *d* as guides. The short slats *e* at each side of the bed are secured to side rails *e'*, extended parallel to the side bars *c*, and to said side rails *e'* suitable legs or supports *e²* are secured, which may be provided at their lower ends with casters. These short slats *e* at each side of the bed and the parts to which they are attached constitute the lateral extensions for the bed, and means are provided, as will be hereinafter described, for moving them either inwardly or outwardly at will. As the slats *e* are drawn outwardly they bear upon the side bars *c*, as represented in Fig. 1, and to hold said slats in their proper position narrow strips *e³* are secured to the under side of the ends thereof, which connect said strips together and which move along beneath the slats *d*. Shoulders *f* are

secured to the adjacent faces of the head and foot boards, upon which the ends of said strips *e²* bear to support the lateral extensions at the ends. When the lateral extensions are moved inwardly, or the bed retracted, the ends of the slats *e* approach, but do not touch each other, leaving a short space between them. In these spaces at the head and foot of the bed I have secured a block, as *g*, which supports a single spring.

The mechanism herein shown for moving the lateral extensions consists of the central longitudinal shaft *i*, having its bearings in the head and foot boards and adapted to be rotated by means of a suitable hand-wheel *i'*, and two bevel-gears *i²*, secured to said shaft, arranged facing each other, which engage the bevel-gears *i³* on the lower ends of the short shafts or studs *i⁴*, to which shafts are secured cross-bars *i⁵*, to the extremities of each of which rods *i⁶* are pivoted, extending in opposite directions and so arranged that the adjacent rods *i⁶* are extended toward and are pivotally connected with one of the lateral extensions, as to the side rails thereof, for instance, while the two outer rods *i⁶* extend toward the opposite lateral extension and are pivotally connected thereto, as to its side rail, for instance. By arranging the rods *i⁶* in this manner I am enabled to turn the shaft *i* and thereby move the lateral extensions in either direction without binding, as it will be seen the cross-bars swing in opposite directions. This form of operating mechanism is simple and easily operated, yet so far as other features of the invention are concerned I do not desire to limit myself to any particular form or construction of operating mechanism. The shafts or studs *i⁴* are supported in blocks *i⁷*, secured to the transverse slats *e*, as shown in Fig. 1.

As a full-width mattress is placed upon the springs, which are supported by all the slats, as shown in Fig. 3, the side edges thereof are turned down over the edges of the bed when retracted and secured by straps *n*, which engage studs on the side rails *e'*, as shown in Fig. 2.

I claim—

1. In a transversely extensible lounge or couch bed, the combination of the head and

foot boards *a*, *b*, side bars rigidly connecting them together, transverse slats *d*, rigidly secured to said side bars at short distances apart, springs thereon, and lateral extensions, comprising short transverse slats *e*, adapted to move between the slats *d* and impinging directly against the edges thereof, springs thereon, side rails *e'*, legs, and strips *e''*, connecting the extremities of said slats together, beneath the slats *d*, and mechanism for moving said lateral extensions in either direction, consisting of two cross-bars, the extremities of which are connected to the transversely movable sections, a central longitudinal operating shaft, and intermediate connections between the shaft and said cross-bars, whereby they are moved simultaneously in either direction, substantially as described.

2. In a transversely extensible lounge or couch bed, the combination of a transversely extensible bed bottom, and mechanism for extending it, consisting of two cross-bars, the extremities of which are connected to the transversely movable sections, a central longitudinal operating shaft, and intermediate connections between the shaft and said cross-bars, whereby they are moved simultaneously in either direction, substantially as described.

3. In a transversely extensible lounge or couch bed, the combination of a transversely

extensible bed bottom, and mechanism for extending it, consisting of two pivoted cross-bars, the extremities of which are connected with the extensible portions, a central longitudinal operating shaft and bevel gears connecting said shaft with the cross-bars, substantially as described.

4. In a transversely extensible lounge or couch bed, the combination of the transversely extensible bed bottom, comprising spring supporting slats, and means for extending and retracting said bed bottom, consisting of two cross-bars, the extremities of which are connected to the transversely movable sections, a central longitudinal operating shaft, and intermediate connections between the shaft and said cross-bars, whereby they are moved simultaneously in either direction, a full-width mattress, and straps and studs for connecting the edges of said mattress to the side rails when the bed is retracted, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BERNICE J. NOYES.

Witnesses:

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LUCY F. GRAVES.