

No. 640,915.

Patented Jan. 9, 1900.

O. R. HUNT.  
SPRING BED BOTTOM.

(Application filed May 16, 1899.)

(No Model.)

Fig. 1.

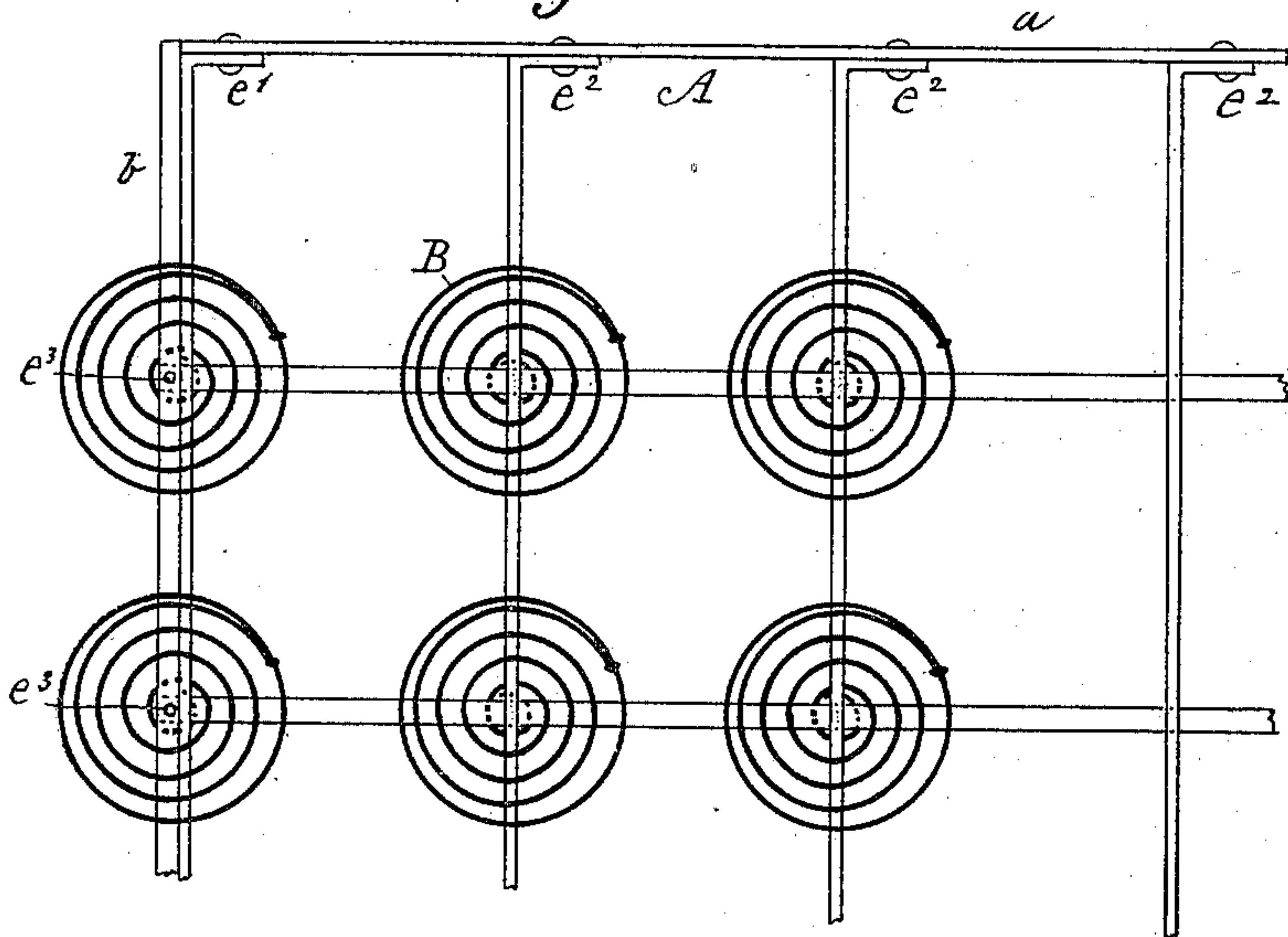


Fig. 2.

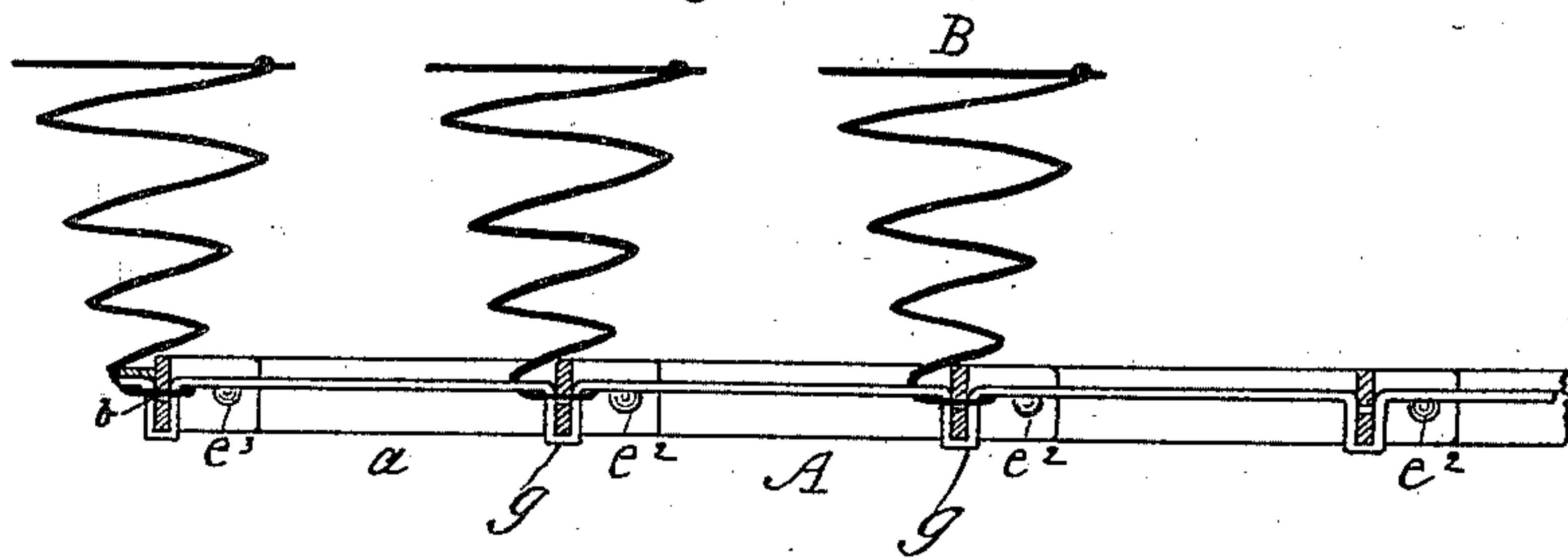
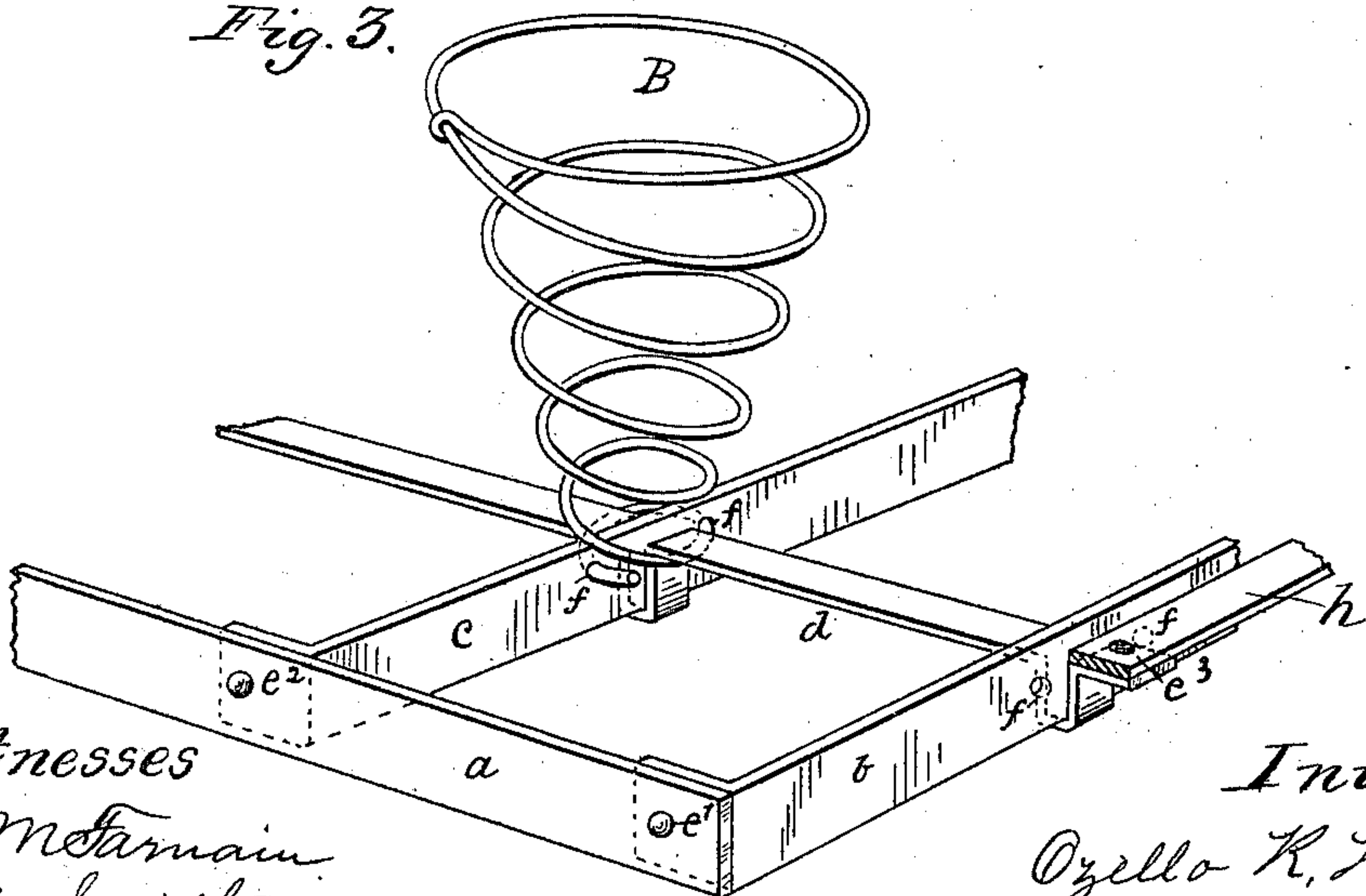


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 640,915, dated January 9, 1900.

Application filed May 16, 1899. Serial No. 716,988. (No model.)

*To all whom it may concern:*

Be it known that I, OZELLO R. HUNT, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented new and useful Improvements in Spring Bed-Bottoms, of which the following is a specification.

My invention relates to bed-bottoms constructed entirely of metal; and it consists in fashioning, arranging, and interlocking the several parts in the manner herein shown and hereinafter described.

My improved bed-bottom consists of a frame with springs mounted thereon; and the novel feature of my invention is the manner of constructing the said frame and of affixing the said springs thereto.

In the drawings, Figure 1 is a top view of a section of my improved bed-bottom; Fig. 2, a section of Fig. 1, taken on the line 2 2; and Fig. 3, a perspective of a section thereof.

Similar letters refer to similar parts.

The frame A consists of the side rails *a*, the end rails *b*, the tie-beams *c*, and the tie-rods *d*, all of which are constructed of band-iron. The side rails *a* are placed upon edge and are horizontally pierced to receive rivets *e*<sup>2</sup>, which secure them to the end rails *b* and to the tie-beams *c*. The end rails *b* in like manner are placed upon edge and their ends bent inward at a ninety-degree angle and horizontally pierced to receive the rivets *e*<sup>1</sup>, which secure them to the side rails *a*. They are also horizontally pierced intermediate their length, being provided with series of holes *f*, adapted to receive the lower coils of the springs hereinafter described.

The tie-beams *c* are of identically the same construction as the end rails *b*, save that they may be made of lighter material. They are disposed between the rails *b* and are secured to the side rails *a* by means of the rivets *e*<sup>2</sup>.

The tie-rods *d* lie flat and run parallel with the side rails *a*, but at right angles with the end rails *b* and the tie-beams *c*. They are fashioned with U-shaped loops *g*, adapted to receive the lower edges of the end rails *b* and the tie-beams *c*. These tie-rods *d* underlie and cross the end rails *b* and tie-beams *c* between the holes *f* therein for the purposes which will be hereinafter revealed. Their outer ends are vertically pierced to receive

rivets *e*<sup>3</sup>, which secure them to slats *h*, extending parallel with the end rails *b*. These slats *h* serve to tie the ends of the tie-rods *d* together and to support or stiffen the end rails *b*.

It will be seen that the U-shaped loops *g* not only serve to receive the end rails *b* and the tie-beams *c* and to hold them in place a proper distance apart, but also to support them on edge and prevent their "buckling."

The springs B are not unlike those commonly used for the purpose, and hence need no description herein. They are secured to the frame A by running their lower coils through the holes *f* of the end rails *b* and the tie-beams *c*, underneath the horizontal portions, and on each side of the looped portions of the tie-rods *d*, thus securely holding them in place and at the same time firmly binding the end rails *b* and tie-beams *c* to the tie-rods *d*. These springs B, thus attached to the frame A, are so secure that they need no further support and cannot get out of place; but when desirable their upper coils may be connected by metal binders tied with cord in the usual manner of upholstering or may be secured to a woven-wire mat, as the manufacturers may elect.

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

1. In a metallic bed-bottom, the combination with the side rails *a*, the end rails *b*, and the tie-beams *c*, of the looped tie *d*, underlying and clasping the said end rails and tie-beams, and the springs B secured thereto, by means of passing their first or lower coils through the said end rails or tie-beams, and underneath the said tie-rods, substantially as shown and for the purpose specified.

2. In a metallic bed-bottom, the combination with the side rails *a*, the end rails *b*, and the tie-beam *c*, of the looped tie-rods *d* and the springs B, said tie-rods underlying and clasping the said end rails and tie-beams, and said springs having their lower coils passed through the said end rails and tie-beams, and underneath the said tie-rods, substantially as shown and described.

3. In a metallic bed-bottom, the combination with the side rails *a*, the end rails *b* and the tie-beams *c* of the tie-rods *d* underlying and connecting the said end rails and tie-

beams, and the springs B mounted upon and secured to the said rails and beams by having their lower coils passed through the same and underneath the said tie-rods, substantially as shown and described.

4. In a metallic bed-bottom, the combination of the side rails *a*, the laterally-pierced end rails *b* affixed thereto to form a rectangular frame, the laterally-pierced tie-beams *c* affixed to and connecting the said side rails, the tie-rods *d* underlying and connecting the

said end rails and tie-beams; and the springs B mounted upon the said rails and beams at their intersecting points; said springs being held in place by having their lower coils passed through the said laterally-pierced rails and beams, and underneath the said tie-rods; substantially as shown and described.

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Witnesses:

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