(No Model.)

F. A. PALMER.

BED OR MATTRESS SUPPORTING FRAME.

No. 251,630. Patented Dec. 27, 1881.

Fig 1.

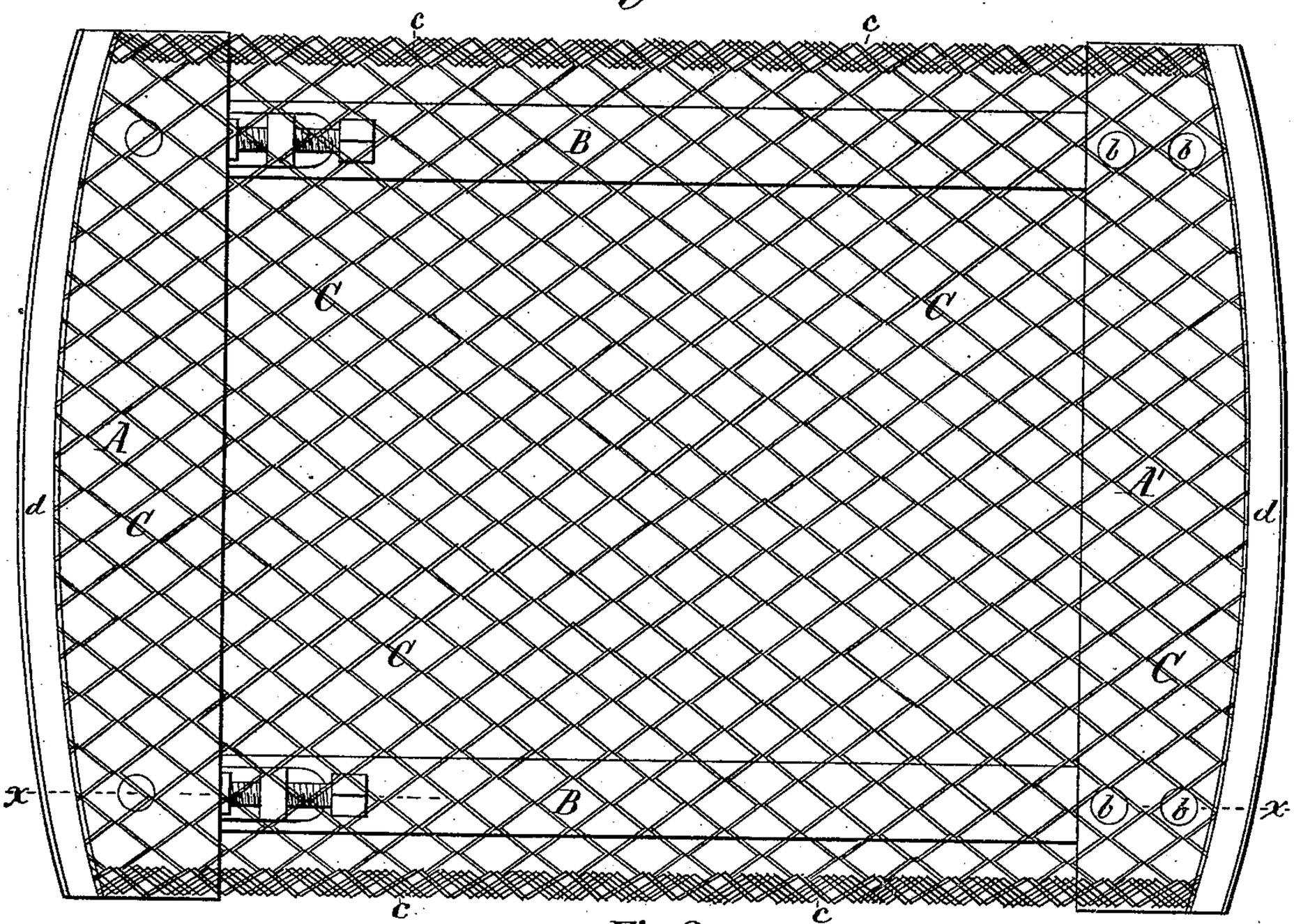


Fig 2.

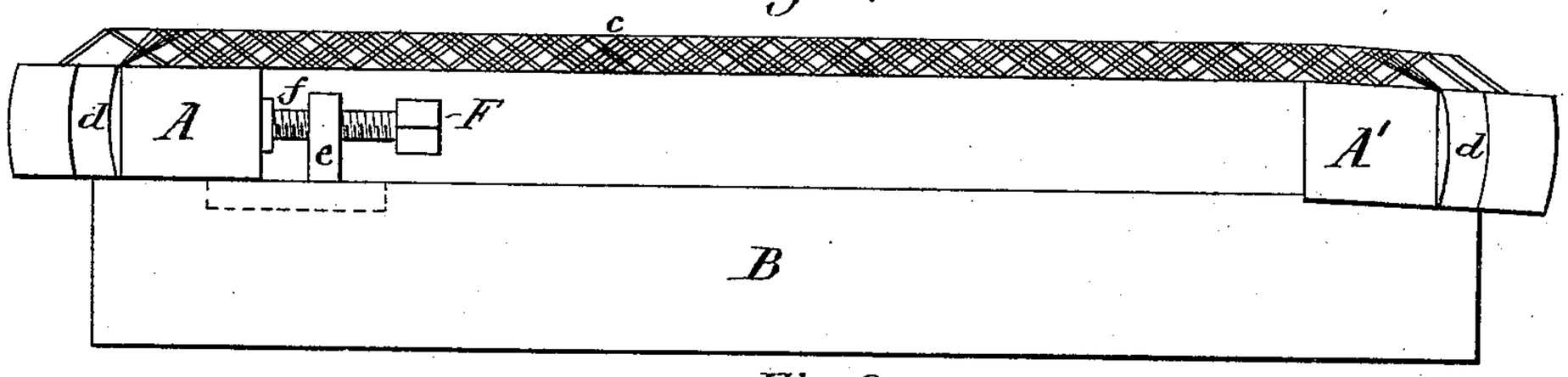
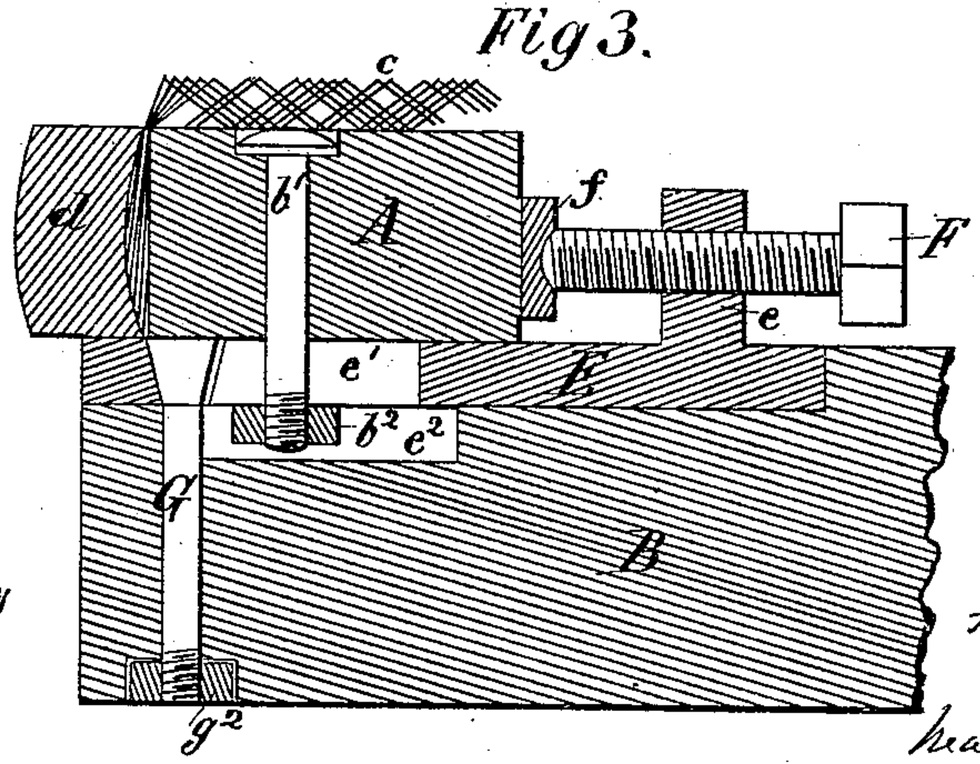


Fig 3.



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UNITED STATES PATENT OFFICE.

FREDERIC A. PALMER, OF NEW YORK, N. Y.

BED OR MATTRESS SUPPORTING FRAME.

SPECIFICATION forming part of Letters Patent No. 251,630, dated December 27, 1881.

Application filed June 20, 1881. (No model.)

To all whom it may concern:

Be it known that I, FREDERIC A. PALMER, a citizen of the United States, and a resident of the city, county, and State of New York, have invented a new and Improved Bed or Mattress Supporting Frame; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and letters of reference marked thereon, forming a part of this specification, in which drawings—

Figure 1 is a plan view of my improved supporting-frame for beds or mattresses. Fig. 2 is a side elevation of the same, and Fig. 3 is a sectional view of a portion of the supporting-frame in the line *x x* of Fig. 1.

The main object of my invention is to provide a bed-bottom or supporting-frame for beds and mattresses, whereby, when its side rails are set between the side rails of a bedstead, the end rails of the supporting-frame will afford the means for holding the frame in position upon the bedstead without other appliances for such purpose, while at the same time the end rails of said frame will afford a support whereby the elastic fabric stretched over the frame may be extended out beyond the side rails of the bedstead, so that a person sitting upon a side edge of the fabric will not have his body come in contact with or press upon a side rail of the bedstead.

In the drawings, A A′ are the end rails, and B B the side rails, of my improved bed-bottom or supporting-frame for beds and mattresses. The end rails, A A′, are secured in position upon and at the ends of the side rails, B B, as shown, and are of such thickness that when the woven-wire fabric or other fabric, as at C, is secured upon the upper surface of the rails A A′, as indicated in the figures, said fabric will not only be elevated a considerable distance above the side rails, B B, as indicated in Fig. 2, but will also extend out laterally beyond and above said side rails, as represented in Fig. 1. The fabric C is confined in position upon and over the end rails by having its ends confined between the rails A A′ and abutting strips *d d*, as indicated, said strips being bolted to the rails A A′ in any proper manner, so as to prevent the ends of the fabric C from being drawn out from between the strips *d d* and rails A A′ when the fabric is under longitudinal strain. The fabric C, it will be seen, is practically of a width equal to the length of the end rails, A A′, and these end rails are of such length that when my bed-bottom or supporting-frame for beds and mattresses is in use the ends of the rails A A′ and the sides *c c* of the fabric C will extend so far beyond and above the side rails of the bedstead that a person sitting upon one of the sides *c* of the fabric will not be subjected to the discomfort of having the fabric pressed down by his weight upon a side rail of the bedstead.

The end rail A′, I confine immovably in place upon the side rails, B, by bolts *b*, or in any other proper manner. The end rail A, I make adjustable on the rails B B, in order to regulate the tension of the fabric C and keep it level and taut. This I effect by confining the rail A to the side rails, B B, by means of bolts *b′*, which pass through a slot, *e′*, in a rail-plate, E, which is seated in the side rails, as shown, and confined thereto by a bolt, G, which at its upper end is flaring and fits in a flaring socket in the rail-plate, and at its bottom is held in position by a screw-nut, g^2, thereby confining the end rail A to the rails B B. This rail-plate E, as shown in Fig. 3, has a screw-bolt projection, *e*, through which a screw-bolt, F, passes, and which bolt has its inner end rounded to fit into a corresponding cavity in a bearing-washer, *f*, which abuts against the inner surface of the rail A, as shown. Beneath the plate E the rail B is cut away, as shown at e^2, so that when the screw-bolt F is screwed up and the rail A forced outward, in order to tighten the fabric C, the nut b^2 and lower end of the bolt *b′* will travel in e^2, while an upper portion of the bolt is free to travel in the slot or opening *e′* of the plate E during the outward movement of the rail A. By this means my supporting-frame for beds and mattresses is provided with a permanent fixture, ready for operation whenever it is desirable to tighten the woven-wire or other suitable fabric, C, and keep it level and taut, and upon which fabric a bed or mattress is laid when in use.

I claim—

1. A bed-bottom or supporting-frame for beds and mattresses, which comprises in its construction end rails, A A′, which project be-

yond its side rails, B B, and a woven-wire or other suitable fabric, C, which extends laterally outward beyond and above the side rails, B B, substantially as and for the purpose described.

2. In combination with the side rail, the slotted plate E, secured to the side rail, and having the threaded standard *e*, the screw-bolt F, and the end rail held in place by the bolt *b'*, passing through the rail and the slot *e'* in the plate E, substantially as and for the purpose described.

Signed in presence of two subscribing witnesses.

FREDERIC A. PALMER.

Witnesses:
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