

915,064.

G. W. BENT.
MATTRESS SUPPORTING FRAME.
APPLICATION FILED AUG. 5, 1907.

Patented Mar. 16, 1909.

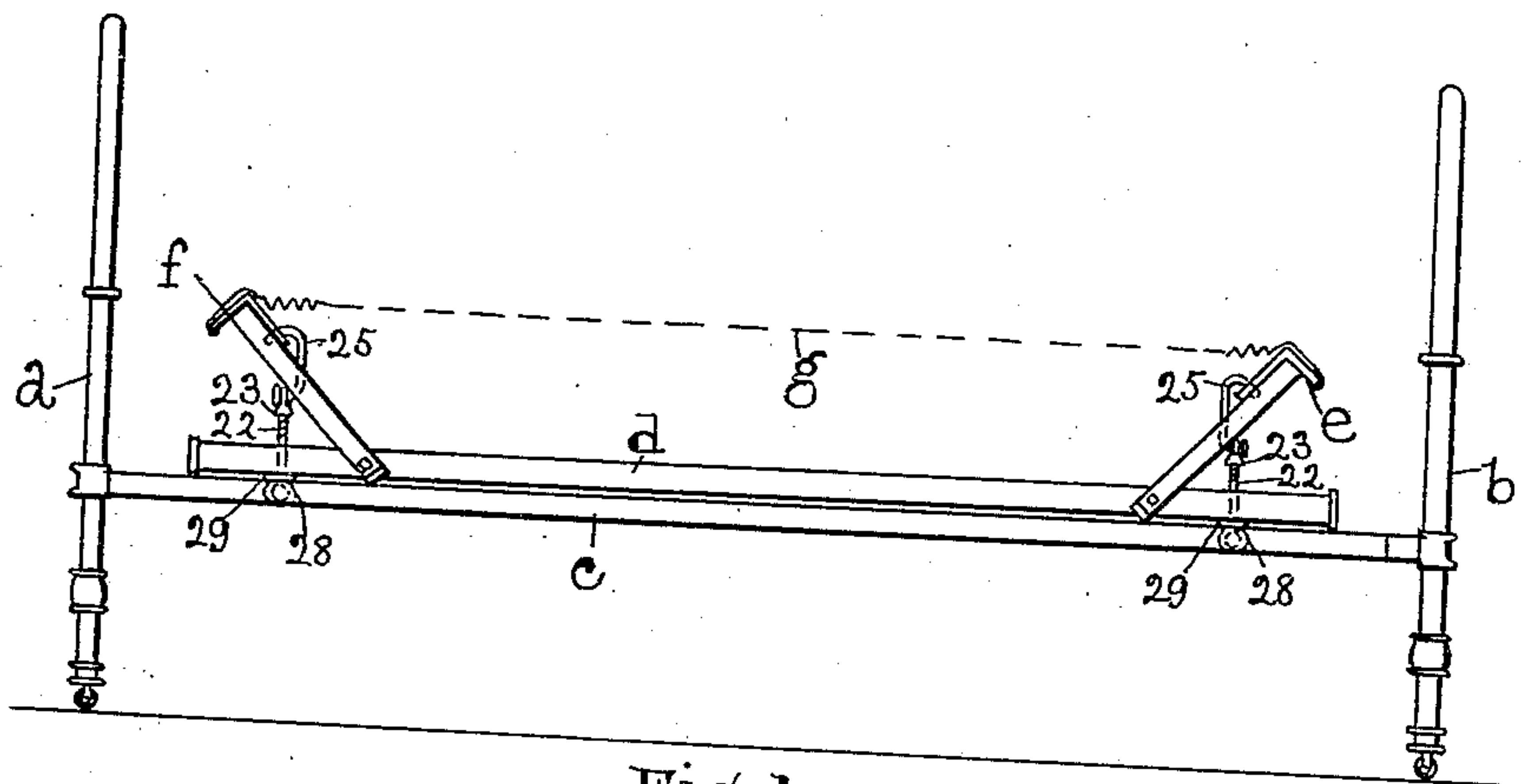


Fig. 1.

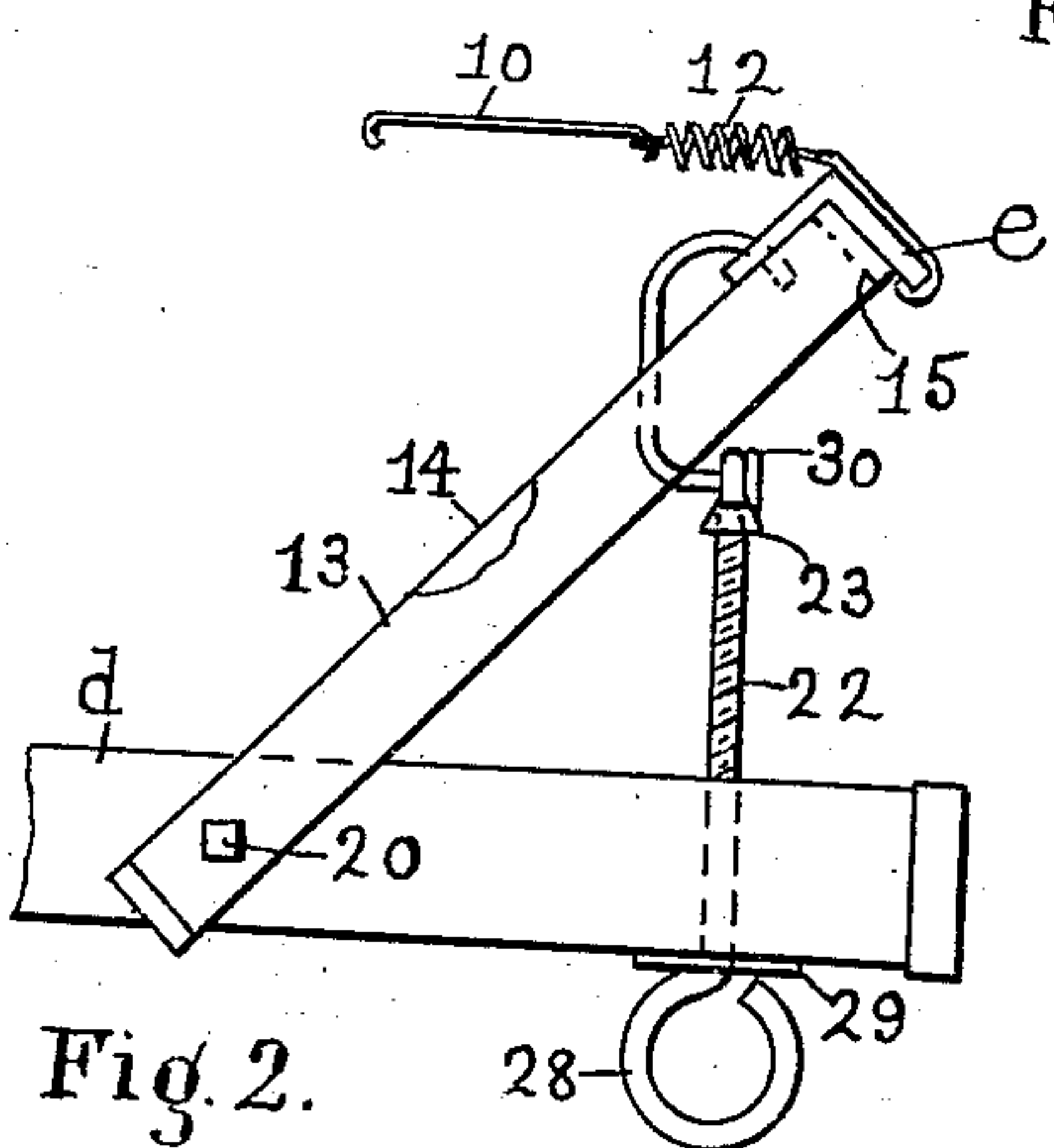


Fig. 2.

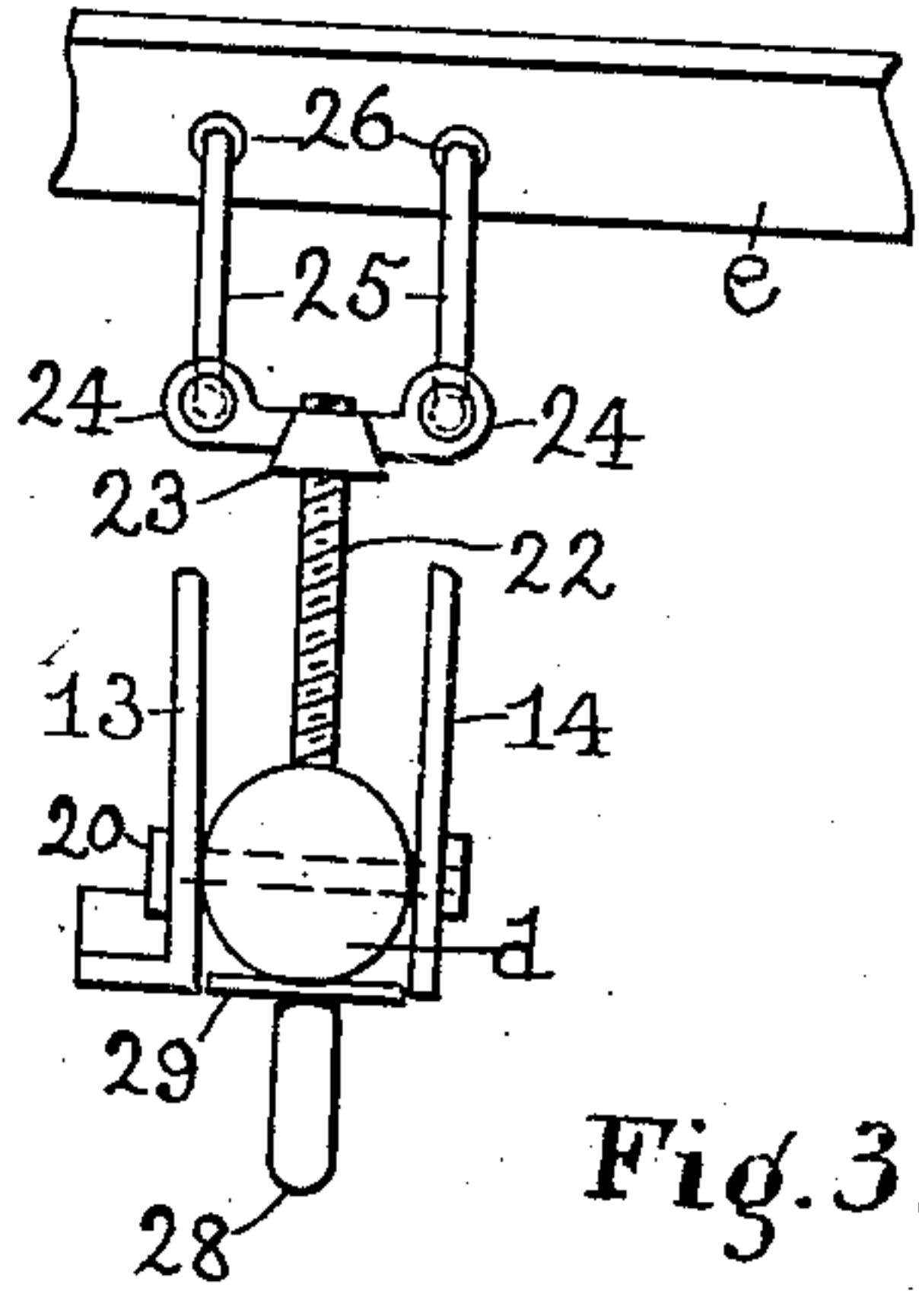


Fig. 3.

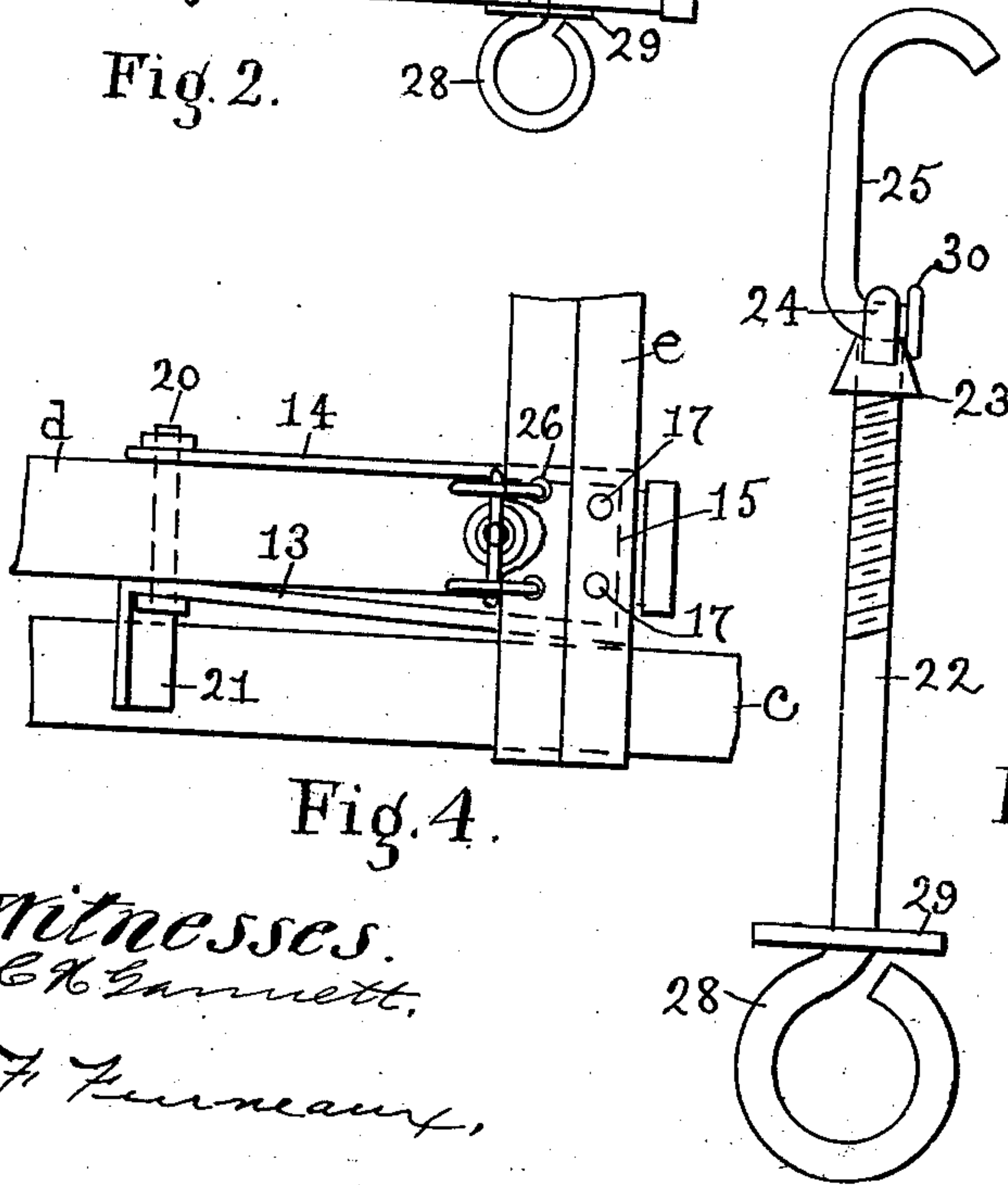


Fig. 4.

Fig. 5.

Witnesses.
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UNITED STATES PATENT OFFICE.

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MATRESS-SUPPORTING FRAME.

No. 915,064.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed August 5, 1907. Serial No 387,208.

To all whom it may concern:

Be it known that I, GEORGE W. BENT, a citizen of the United States, residing in Hyde Park, in the county of Norfolk and State of Massachusetts, have invented an Improvement in Mattress-Supporting Frames, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention relates to a mattress-supporting frame provided with a mattress-support, which is secured to the end bars of the said frame.

The invention has for its object to provide means as will be described, whereby one or both of the end bars are adjustably secured to the side bars of the frame so as to prevent distortion of the side bars when strain is placed upon the mattress-support as will be described.

The invention further has for its object to provide novel means for adjusting the end bars with relation to the side bars when it is desired to tighten or loosen the mattress-support.

These and other features of this invention will be pointed out in the claims at the end of this specification.

Figure 1 is a side elevation of a bed provided with a mattress-supporting frame embodying this invention. Fig. 2, a detail in side elevation and on an enlarged scale of one end of the mattress-supporting frame shown in Fig. 1. Fig. 3, an end elevation of Fig. 2, looking toward the left. Fig. 4, a plan of Fig. 2, and Fig. 5, a detail to be referred to.

In the present instance I have shown the invention as embodied in a metallic mattress-supporting frame adapted for use with a metallic bed, comprising a head piece or frame *a*, a foot piece or frame *b* and connecting side rails or bars *c*, only one of which is shown.

The mattress-supporting frame comprises parallel side bars or pieces *d*, only one of which is shown in Fig. 1, and end bars or pieces *e*, *f*, to which latter is secured in any suitable manner a mattress-support *g*, which may be the ordinary woven wire mattress or which may be composed of connected links and helical springs 12 (see Fig. 2), or which may be of any other or suitable construction.

The mattress-supporting frame may be made of metal and the side bars or pieces *d*

may be metal tubes, while the end bars *e*, *f*, may be made of angle iron. The present invention has for its object to provide means for connecting one or both of the end bars *e*, *f*, to the side bars or pieces *d* in such manner as will permit one or both of said end bars to be adjusted with relation to the said side bars or pieces, so as to vary the tension on the mattress-support, while at the same time avoiding bowing in or out or other distortion of the side bars or pieces *d* and maintaining the latter straight so as to fit the bed frame in the desired manner.

In the present instance I have shown both end bars adjustable and inasmuch as the connection is the same between the ends of each end bar and the side pieces or bars, a detailed description of but one connection will suffice to enable the invention to be thoroughly understood.

Referring to Figs. 2 to 5 inclusive, the end bar *e* has firmly secured to it two levers or braces 13, 14, which are shown as joined at their upper ends by a cross piece 15 so as to form a yoke, which is fastened to the end bar *e* by rivets 17 (see Fig. 4) or in any other suitable manner. The levers 13, 14 straddle the side tube or bar *d* and are pivotally connected therewith at their lower ends by the pivot pin or bolt 20.

The outer lever 13 may have its end extended laterally to form a supporting finger 21, which is adapted to rest upon the side bar *c* of the bed frame, and support the mattress frame thereon.

Provision is made for turning the levers 13, 14 on their pivot 20 so as to lower or raise the end bar *e* with relation to the side bar or piece *d* and thereby place more or less tension upon the mattress-support *g*, and this result may be accomplished as herein shown by means of an adjusting screw or bolt 22 extended up through the side bar or piece *d* and provided with a nut 23 having arms 24, which are engaged by links or hooks 25 whose upper ends are bent to enter holes 26 in the end bar. The lower end of the bolt 22 may be curved to form a handle 28 and to support a washer 29, which engages the underside of the bar *d*. The links or hooks 25 may be provided with heads 30 to prevent their disengagement with the nut.

By turning the bolt 22, the nut 23 is caused to travel thereon and thereby through the links 25 effect movement of the end bar *e* with relation to the side bars *d*, which is per-

mitted by the pivot 20 for the levers 13, 14. It will be observed that the mattress spring support *g* places a very considerable strain upon the levers 13, 14, which strain is transmitted equally to the opposite sides of the side bar or piece *d*, and buckling, bowing or distortion of said side bar laterally with relation to the side bar *c* of the bed frame is prevented, thereby preserving the side bar *d* in its proper and desired parallel relation to the bed frame.

I have herein shown one construction of mattress-supporting frame embodying this invention, but I do not desire to limit the invention to the particular construction shown.

Claims.

1. In a mattress-supporting frame, in combination, side bars, end bars, a mattress-support rigidly secured to said end bars, levers secured to said end bars and pivotally connected to the said side bars on opposite sides thereof, one of said levers having a laterally extended finger to rest on a side rail of the bed frame, a bolt extended through the side bar, a nut on said bolt, and a link connecting said nut with an end bar, substantially as described.

2. In a mattress-supporting frame, in combination, side bars, end bars, a mattress-support rigidly secured to said end bars, upwardly inclined levers pivoted at their lower ends to the opposite sides of said side bars and secured at their upper ends to one of said end bars, and means for adjusting said end bar with relation to said side bars, said means being connected with said end bar and with a side bar at the rear of the pivot for said levers, substantially as described.

3. In a mattress-supporting frame, in combination, side bars, end bars, a mattress-support rigidly secured to said end bars, levers secured to said end bars and pivoted to said side bars, said levers having laterally extended fingers

to rest upon a side rail of the bed frame, and means for adjusting said end bars with relation to said side bars, substantially as described.

4. In a mattress-supporting frame, in combination, side bars, end bars, a mattress-support rigidly secured to said end bars, levers for pivotally connecting one of said end bars to said side bars, and means for adjusting said end bar with relation to said side bars, and comprising a bolt extended through the side bar and capable of rotation, a nut on said bolt, and a link connecting said nut with said end bar, substantially as described.

5. In a mattress-supporting frame, in combination, side bars, end bars, a mattress-support rigidly secured to said end bars, means for pivotally connecting one of said end bars to said side bars, means for adjusting said end bar with relation to said side bars, and comprising a bolt extended through the side bar, a nut on said bolt, and means connecting said nut with relation to said end bar, substantially as described.

6. In a mattress-supporting frame, in combination, side bars, end bars, a mattress-support rigidly secured to said end bars, levers secured to one of said end bars and pivoted to said side bars, and means for adjusting said end bar with relation to said side bars, said means comprising rotatable devices connected with the side bars and non-rotatable devices connected with the end bar, substantially as described.

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

GEORGE W. BENT.

Witnesses:

CHARLES H. NEVONS,
ALBERT B. BENT.