E. A. BEDIENT.

SPRING BED BOTTOM.

APPLICATION FILED MAY 5, 1908.

911,642.

Patented Feb. 9, 1909.

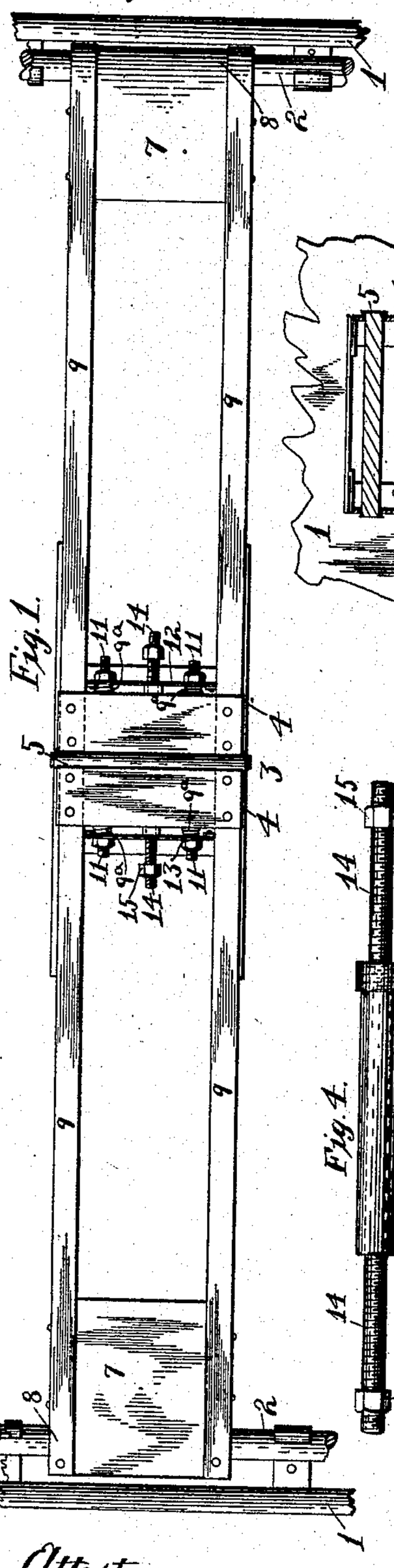

Fig. 1.

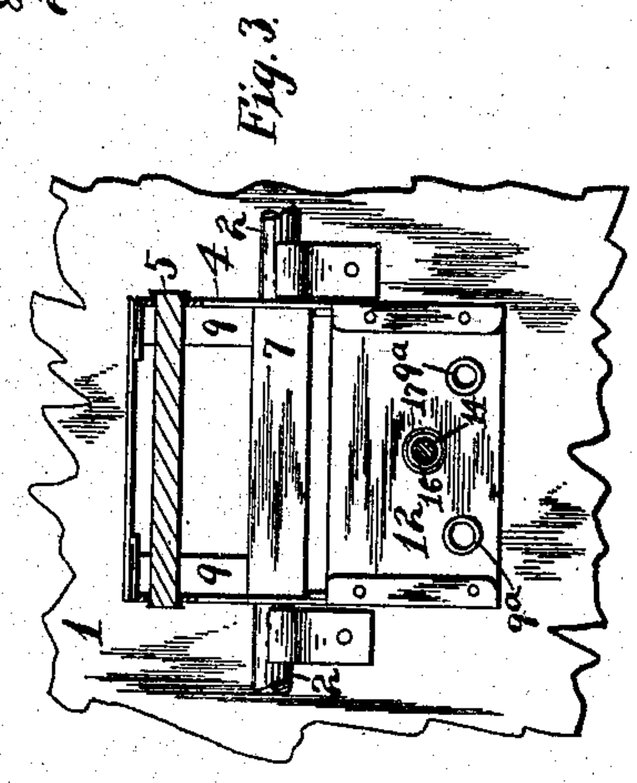

Fig. 3.

Fig. 4.

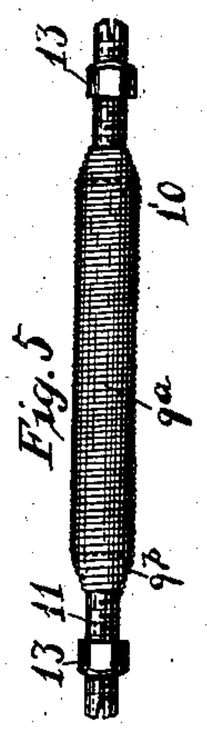

Fig. 5.

Fig. 2.

Attest.

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UNITED STATES PATENT OFFICE.

EMORY A. BEDIENT, OF ERIE, PENNSYLVANIA.

SPRING BED-BOTTOM.

No. 911,642. Specification of Letters Patent. Patented Feb. 9, 1909.

Application filed May 5, 1908. Serial No. 431,047.

To all whom it may concern:

Be it known that I, EMORY A. BEDIENT, a citizen of the United States, residing at Erie, Pennsylvania, have invented certain new and useful Improvements in Spring Bed-Bottoms, of which the following is a specification.

My invention relates to improvements in spring bed bottoms and the object of the invention is to provide an exceedingly simple and durable construction composed of sections or units, each of which may be readily adjusted as desired and independently removed and replaced in case of breakage.

The invention includes the novel features of construction and arrangement and combination of parts hereinafter described and particularly set forth in the appended claims.

An embodiment of the invention is illustrated in the accompanying drawings, in which,—

Figure 1 is a plan view. Fig. 2 is a side elevation. Fig. 3 is a cross sectional view on line 2—2 of Fig. 2. Fig. 4 is a detailed view of the stop device, and Fig. 5 is a detailed view of a spring.

Referring by reference characters to this drawing, the numeral 1 designates a sufficient portion of the bedstead to illustrate the manner in which the bed bottom is supported therefrom. No frame is used for the bed bottom, but the individual sections which constitute the bed bottom are supported by rods or pipes 2 attached to or carried by the bed rails near the head and foot respectively.

The individual sections are designated at 3, and of these the number used would correspond to the width of the bed bottom desired, they being placed side by side to fill up or occupy the entire space of the bed. These sections comprise two units hinged together at the center of the bed. In constructing these units, I provide two central members 4 pivotally connected together at the top as indicated at 5, these members being duplicates of each other. Extending from each of these members towards the head and foot respectively are bars 6, their outer ends being connected by an inclined plate or member 7 which has a bearing portion 8 designed to rest upon the transverse rod at the corresponding end of the bedstead. Extending from each of these members 7 to the corresponding central member 4 are two flexible bands, preferably of steel, as indicated at 9. Two are shown as I have found that with the width of unit which I contemplate using two will be sufficient, but it will be understood of course that the number used will depend upon the width of units. These steel bands are drawn taut and their ends securely attached as by riveting to the corresponding parts. The lower portion of the hinged sections 4 are connected by tension spring means, preferably by two springs 9^a as shown. I prefer to make these springs with conical ends 9^b which receive the conical heads 10 of bolts 11, which bolts pass through the cross plates 12 of the hinged members 4 and are provided with nuts 13 upon their outer ends by which the tension of the springs may be regulated. The springs tend to hold the entire unit in the position shown in full lines in the view in side elevation, but upon the application of weight, the springs will yield to permit the unit to be depressed, the degree depending on the amount of weight and the tension of the springs. This will give a vertical yielding movement to the entire section, while the steel bands will of themselves have a certain amount of yielding movement, and this, coupled with the fact that there are a large number of units will make the bed bottom an extremely comfortable one.

It is desirable to provide a stop acting as a safety device to protect the springs from severe strain or breakage in the downward movement of the parts and a convenient method of effecting this is to connect the cross bars of the hinge members by a rod 14 passing through the cross bars and having nuts 15 upon the ends thereof. These serve as a limit stop so that the springs may never be over-taxed. Around the rod 14 I place a sleeve 16 with an adjusting nut 17 upon one end so as to regulate the longitudinal arch of the bed.

Having thus described my invention, what I claim is:—

1. In a spring bed bottom, the combination with a pair of supporting rods, of a plurality of units removably supported by said rods at their outer ends, said units comprising two sections pivotally connected together with elastic means tending to yieldingly resist the downward movement thereof, substantially as described.

2. In a spring bed bottom, the combination with a pair of supporting rods, of a

plurality of independent units having their outer ends removably supported by said rods, each unit consisting of two central members pivotally connected together, bars extending outwardly from said central members, and carrying plates resting upon the rods, bands extending from said plates to said central members, and spring means connecting said hinged members to resist the separation of the lower portions thereof, substantially as described.

3. In a spring bed bottom, the combination with a pair of supporting rods, of a plurality of units, each consisting of a pair of central members pivotally connected together at their upper sides, bars extending outwardly from the lower portions of said members, plates carried by the outer ends of said bars and having rocking engagement with said rods, bands or the like extending from said plates to the upper portions of said hinged members, spring tension means connecting the lower portions of said hinged members, and stop means interposed between the said lower portions of said hinged members for limiting both the approach and the amount of separation of the lower portions of said members, substantially as described.

In testimony whereof, I affix my signature in presence of two witnesses.

EMORY A. BEDIENT.

Witnesses:
C. A. MONG,
B. B. WARFEL.