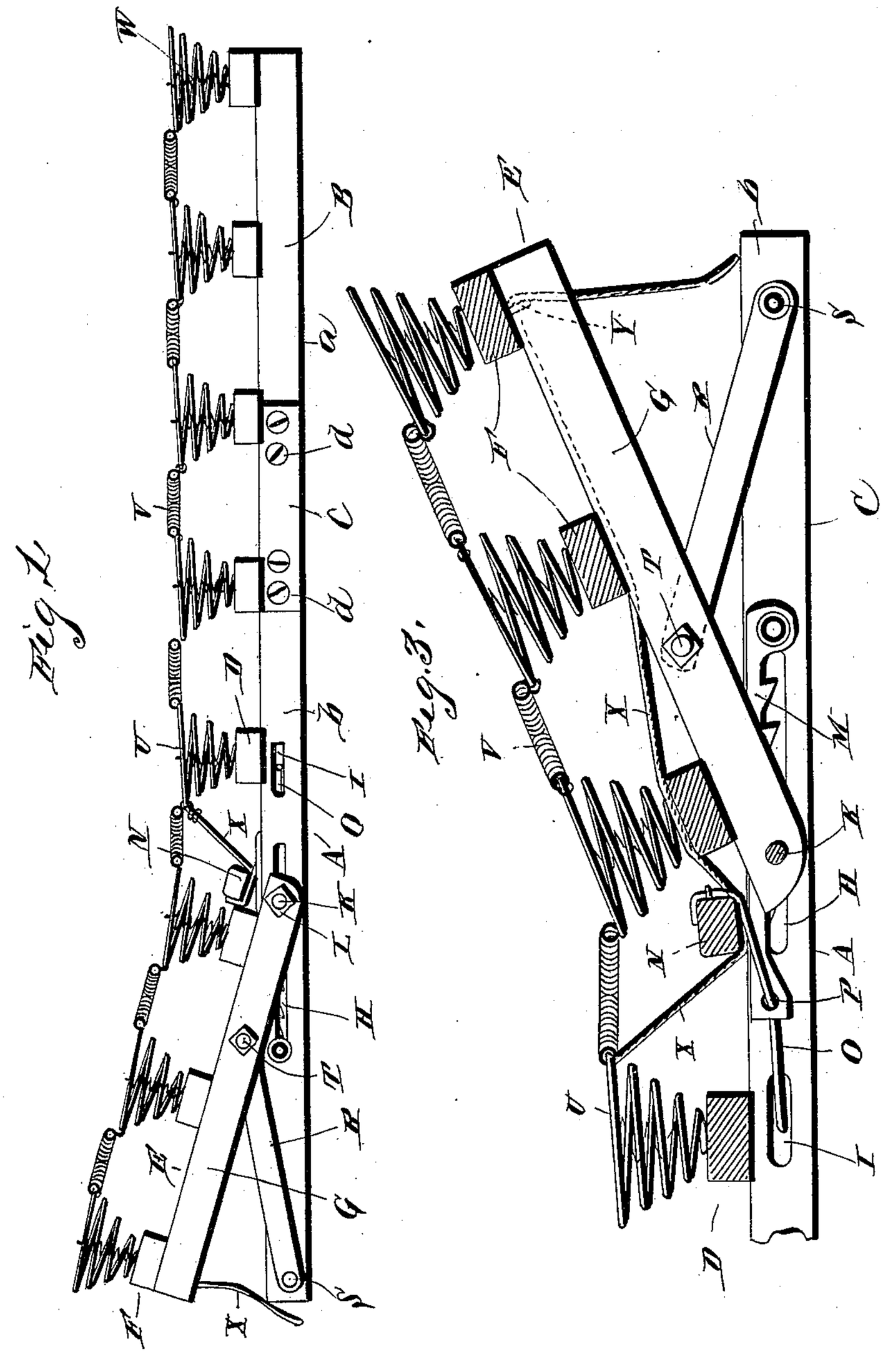
(No Model.)

2 Sheets—Sheet 1.

J. M. DAVIS.

SPRING BED BOTTOM.

No. 400,900. Patented Apr. 9, 1889.



WITNESSES.

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(No Model.) 2 Sheets—Sheet 2.

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SPRING BED BOTTOM.

No. 400,900. Patented Apr. 9, 1889.

Fig. 2.

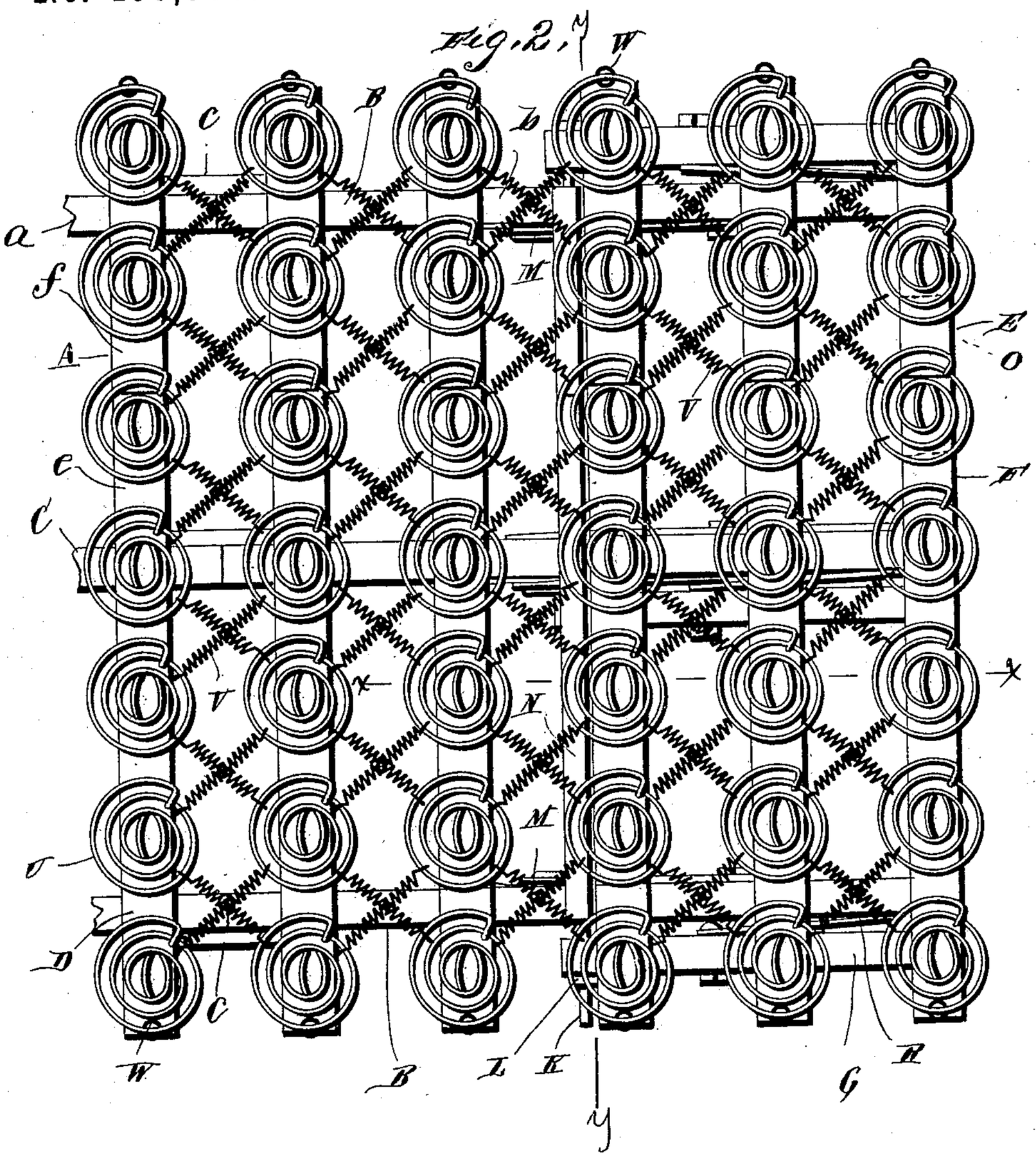
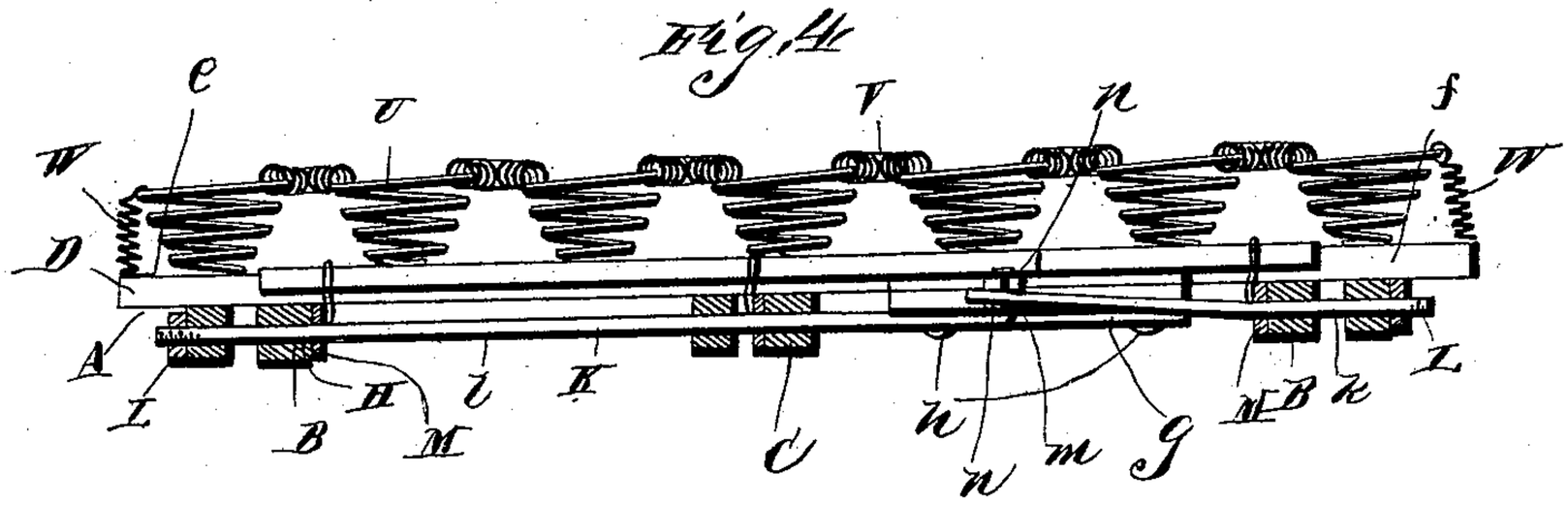


Fig. 4.



WITNESSES,
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UNITED STATES PATENT OFFICE.

JULIUS M. DAVIS, OF COLUMBIA, TENNESSEE.

SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 400,900, dated April 9, 1889.

Application filed June 12, 1888. Serial No. 276,848. (No model.)

To all whom it may concern:

Be it known that I, JULIUS M. DAVIS, a citizen of the United States, residing at Columbia, in the county of Maury and State of Tennessee, have invented a new and useful Improvement in Spring Bed-Bottoms, of which the following is a specification.

My invention relates to an improvement in spring bed-bottoms; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a side elevation of a spring bed-bottom embodying my improvement. Fig. 2 is a top plan view of the same. Fig. 3 is a vertical longitudinal sectional view of the same, taken on the line *x x* of Fig. 2. Fig. 4 is a vertical transverse sectional view of the same, taken on the line *y y* of Fig. 2.

A represents the main frame, which comprises the longitudinal side bars, B, and the central bar, C, the same being arranged at regular distances apart and connected by a series of transverse bars, D, which extend throughout about two-thirds the length of the main frame. The bars B C are made in separable sections *a b*, the meeting ends of which are connected together by cleats *c*, thereby forming lapped joints, and the said cleats being secured to the members or sections of the bars by means of screws or bolts *d*. The bars D are also formed of separable sections *e f*, the meeting ends of which are connected together by means of cleats *g*, the latter being secured to the members or sections *e f* by means of bolts or screws *h*.

E represents the head-frame, which comprises the transverse bars F, arranged at suitable regular distances apart, and bars G, which connect the same. The bars F of the head-frame are also made in separable sections, similar to those of the bars D, and are connected together by means of cleats *o*, which are similar to the cleats *g* previously described. By thus making the longitudinal and transverse beams of the main and head frames in separable sections or members which are lap-jointed together the length and width of the frame may be increased or diminished at will to enable the bed-bottom to fit a bedstead of any ordinary size.

In the manufacture of my improved main and head frames I propose to employ devices whereby the head-frame may be adjusted to any desired inclination on the main frame. To this end the lower ends of the bars G are arranged alongside the bars B and C, and said bars B and C are provided with longitudinal horizontal slots H near one end. At a suitable distance from the inner ends of the slots H are shorter horizontal slots, I.

K represents a pivotal rod, which extends through the slots H, and also through openings at the inner ends of the bars G, the ends of the said rod projecting beyond the outer bars, B, and being provided with nuts L, which are screwed thereon. The said bar K is made of two sections or members, *k l*, the latter having its inner end upturned and passed through one of the openings *m*, with which the inner end of the member *k* is provided, the said upturned end of the said member *l* being secured to the member *k* by means of clamping-nuts *n*.

On one side of each bar B and C is arranged a rack-lever, M, the said rack-levers being pivoted at their outer ends and provided on their under sides with teeth, which are adapted to engage the bar L, so as to secure the same at any desired adjustment in the slots H.

N represents a sectional cross-bar, which is arranged on the upper side of the main frame, near the inner end of the head-frame, and has arms O, the inner ends of which are bent at right angles and fitted in the slots I and adapted to play longitudinally therein. The said arms O are further provided with right-angled portions P, which extend through openings in the inner ends of the rack-levers M, and are thereby pivotally connected to the said rack-levers.

R represents link-rods which have their outer ends pivoted to the ends of the bars B C by means of bolts S, and have their inner ends pivotally connected to the bars G by means of bolts T. The head-frame is thereby connected to one end of the main frame, and said head-frame is adapted to be turned on its pivotal rod L and arranged at any desired

inclination, the said rod L being caused to travel in the slots H when the head-frame is inclined, as will be readily understood, and being secured rigidly in the said slot by the rack-levers M when the head-frame is arranged at the desired inclination.

The cross-bars of the main and head frames are provided with volute springs U, connected together by coiled retractile springs V, which are crossed, as shown, are caused to intersect each other in pairs, and have their central portions engaging each other. The springs U, which are on the sides of the main and head frames, have their upper coils at their outer sides connected to the ends of the cross-bars by means of coiled springs W.

In order to enable the cross-bar N to be tilted upward, so as to disengage the rack-levers M from the bar L when it is desired to lower the head-frame, I provide a cord, X, which is attached to the central spring, U, at the head of the main frame, passes under the bar N, then over the proximate bar F of the head-frame, and is threaded through suitable guides or keepers, Y, under the remaining bars F of the head-frame, as shown. This renders it only necessary to draw upon the dependent outer end of the cord in order to release the lower end of the head-frame and cause the same to fall flat upon the main frame.

I would have it understood that no claim is made herein to the devices hereinbefore described for adjusting the head-frame to any desired inclination, as I am aware that it has been heretofore proposed to employ similar devices for accomplishing the same result.

Having thus described my invention, I claim—

In a spring bed-bottom, the frame comprising the longitudinal and transverse bars, each of which is formed of separable members or sections arranged end to end, and the cleats overlapping the meeting ends of said separable members or sections and secured to and connecting the same, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JULIUS M. DAVIS.

Witnesses:
W. J. DALE, Sr.,
C. W. WITHERSPOON.