No. 702,688. Patented June 17, 1902.

L. N. BACHAND.

BED.

(Application filed Aug. 22, 1900.)

(No Model.) 2 Sheets—Sheet 1.

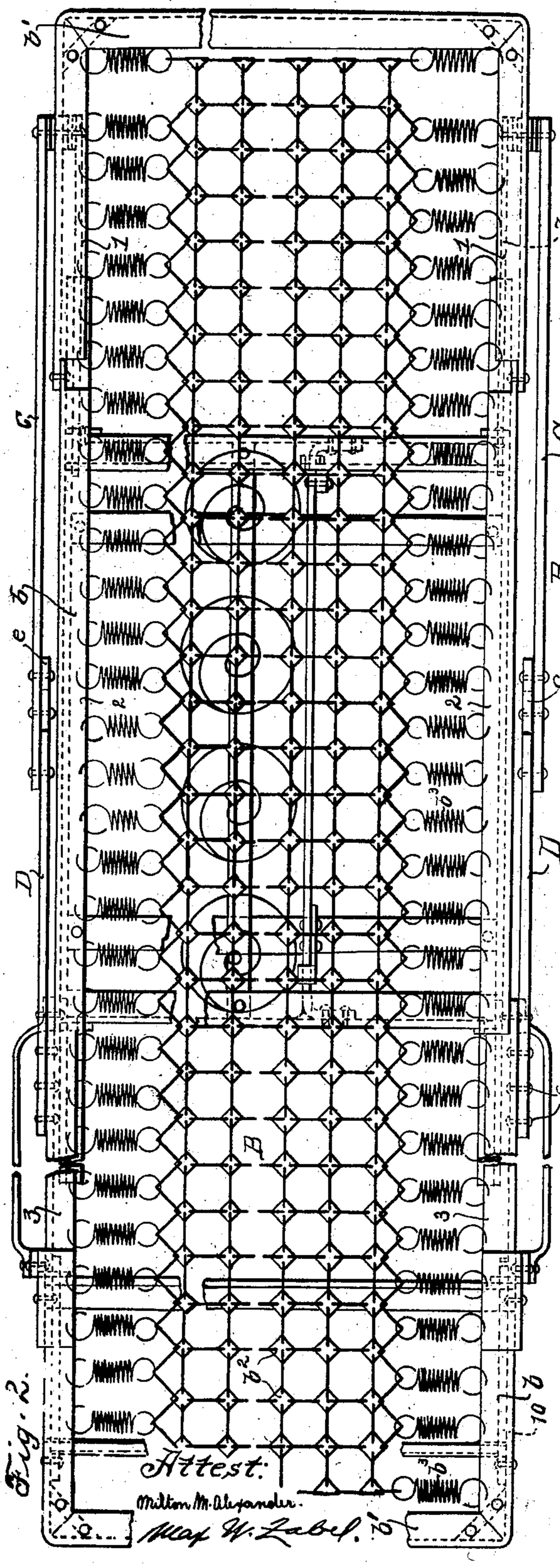


Fig. 2.

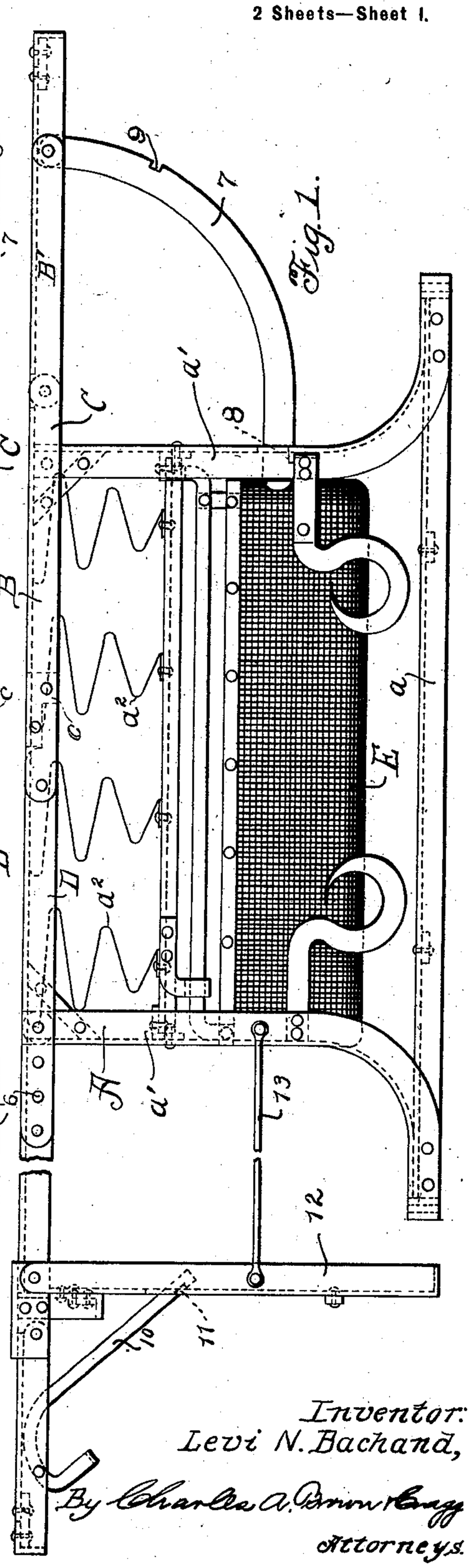


Fig. 1.

Attest:
Milton M. Alexander.
May W. Label.

Inventor:
Levi N. Bachand,
By Charles A. Brown & Sons
Attorneys.

No. 702,688. Patented June 17, 1902.

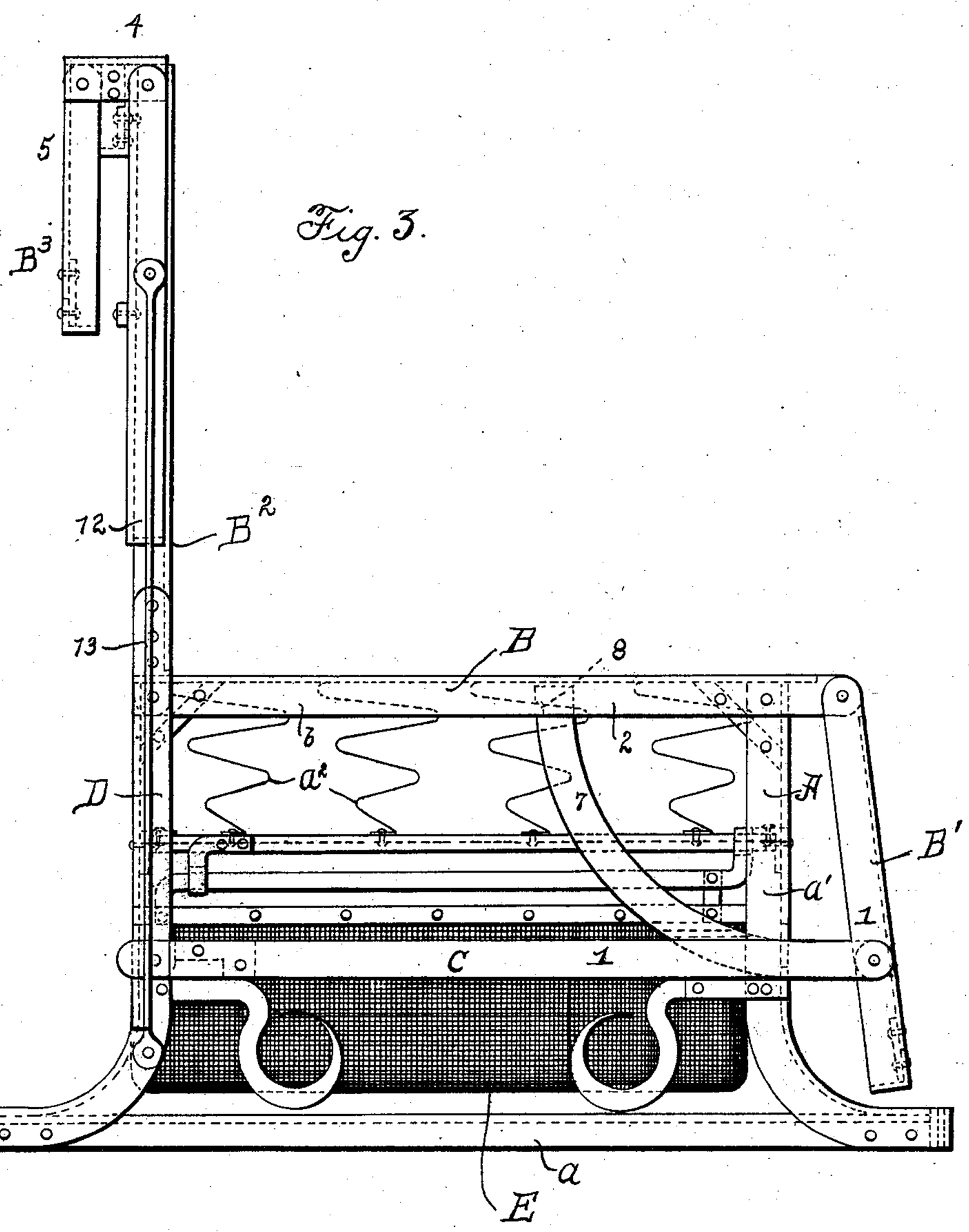
L. N. BACHAND.

BED.

(Application filed Aug. 22, 1900.)

(No Model.) 2 Sheets—Sheet 2.

Fig. 3.



Witnesses:
Milton M. Alexander.
Alex W. Label.

Inventor:
Levi N. Bachand,
By Charles A. Brun & Bragg
Attorneys.

UNITED STATES PATENT OFFICE.

LEVI N. BACHAND, OF CHICAGO, ILLINOIS.

BED.

SPECIFICATION forming part of Letters Patent No. 702,688, dated June 17, 1902.

Application filed August 22, 1900. Serial No. 27,677. (No model.)

To all whom it may concern:

Be it known that I, LEVI N. BACHAND, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Beds, (Case No. 6,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to beds, and in particular to beds in which the bed structure is made of steel or other metal.

Prominent objects of my invention are to provide a structure which can be employed at will either as a bed or as a divan and to provide simple, practical, and effective means for accomplishing this result.

In a bed structure constructed in accordance with my invention one end portion of the bed-bottom is arranged so that it can be adjusted downwardly at an angle with the main or body portion of the bottom, and the other end portion is arranged so that it can be adjusted upwardly relatively to said body portion. The downwardly-adjustable end portion is of sufficient length to extend practically or nearly to the floor when adjusted downwardly, and the upwardly-adjustable end portion is preferably longer than the downwardly-adjustable portion. In this way when the two portions are adjusted one downwardly and the other upwardly there is formed a structure having a horizontal bed portion, a downwardly-extending front, and an upwardly-extending portion which serves as a back. The whole structure when thus arranged can be covered with suitable covers or cushions and will then form a divan. In accordance, further, with my invention the upwardly and downwardly adjustable portions are provided with means whereby they can be simultaneously adjusted to their proper positions. As a preferred arrangement the upwardly-adjustable portion is jointed near its upper end, so that an end section of it can be bent or folded backwardly and downwardly to prevent the back of the divan from being too high.

In the accompanying drawings, Figure 1 is a side elevation of a bed structure embodying my invention, a portion of the same being broken away for convenience of illustration. Fig. 2 is a plan view of the same. Fig. 3 is a side elevation of the same when adjusted so as to form a divan.

The bed structure illustrated in the drawings comprises a suitable frame A, having transverse bottom rods a and upwardly-extending legs a' a'. The bed-bottom B is arranged upon and supported by the legs a' a'. The bed-bottom shown comprises the side pieces b b and the end pieces b' b' and the woven or wire structure b^2 inclosed by said frame-pieces and connected therewith by means of the springs b^3 b^3. The portion of the wire structure b^2 between the upper ends of the legs a' a' is additionally supported by springs a^2. The end section B′ is made adjustable angularly with reference to the portion of the bed-bottom between the ends of the legs a' a', and to such end the end portions 1 1 of the side pieces b b are made separate from the middle portions 2 2 thereof and pivotally connected therewith, in which way the end portion B′ of the bed-bottom, consisting of the sections 1 1 and one of the end pieces b', can be swung or adjusted relatively to the body portion of the bed-bottom, as shown in Fig. 3. The opposite end portion B^2 of the bed-bottom likewise consists of sectional portions 3 3 of the said pieces b b and the other end piece b', and this section B^2 is made angularly adjustable by having the ends of the sections 3 3 pivotally connected with the ends of the sections 2 2. In this way the section B^2 can be adjusted by swinging it about its pivotal connection with the main or body portion of the bed portion, as also shown in Fig. 3. In order that the section B^2 shall not have too great a height when adjusted or swung upwardly, it is jointed near its outer end, so that a supplemental end section B^3 can be swung backwardly and downwardly, as shown in Fig. 3. This is effected by forming the sections 3 3 of portions 4 4 and 5 5 and pivotally connecting these sections together, so that the sections 4 4 can swing backwardly about the ends of the remaining portion of the sections 3 3 and the portions 5 5 can be swung downwardly about their connections with the portions 4 4.

As a preferred arrangement the end sec-

tions of the bed-bottom B′ B² can be simultaneously swung into lowered and elevated positions, respectively. As a simple arrangement for so doing I have shown the side rods C C pivotally connected with end sections 1 1, and side rods D D securely fastened to the sections 3 3, as by rivets 6 6, and pivotally connected with the side rods C C. In this way when the section B² is swung upwardly the side rods D D will swing downwardly, and thereby lower their connections with the side rods C C, which latter will in turn descend and lower the end section B′. In order to prevent the side rods D D and C C from swinging beyond their normal level positions when the sections B′ and B² are respectively elevated and lowered to their normal horizontal positions, the ends of the rods D D are reduced in size, and the rods C C are provided with pieces *c c*, adapted to fit above the reduced ends of the rods D D when the latter come into a horizontal position.

As an arrangement for holding the section B′ normally in a horizontal position it is provided with sectors 7 7, which are pivotally secured to it near the outer ends of the side sections 1 1 and are arranged to work in channels formed in flanged portions of the legs *a′ a′*, which channels are shown in dotted lines in Fig. 1. The sectors 7 7 are provided near their inner ends with notches 8 8, adapted to engage the end portions of said flanges when the section B′ is properly elevated. These sectors 7 7 are also conveniently provided with supplemental notches 9 9, capable of engaging the flanges on the legs *a′ a′* when the section B′ is in its lowered position. When the section B′ is thus lowered and locked in a lowered position, the rear end portion or section B² will be locked in its elevated position by the arrangement of the rods C C and D D.

As an arrangement for supporting the rear section B² in its normal horizontal position I have shown the outermost sections 5 5 of the side pieces *b b* provided with spring-arms or catches 10 10, having notches 11 11, adapted to engage flanged portions of supplemental legs 12 12 when the sections 5 5, 4 4, and 3 3 are extended in alinement with one another. The supplemental legs 12 12 are connected with the adjacent legs *a′ a′* by means of rods 13 13, whereby when the end section B² is swung upwardly into its elevated position the legs 12 12 will swing about their pivotal connections with the sections 3 3 and occupy positions alongside of the sections 3 3.

I have shown in the drawings also a receptacle, such as the basket E, arranged below the stationary portion of the bed. This receptacle is desirably arranged so that it can be withdrawn from below the body portion of the bed-bottom without detaching it therefrom. The arrangement for accomplishing this result I have shown, described, and claimed in my copending application, Serial No. 27,678, filed of even date herewith. I will not, therefore, describe or claim it in this application.

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

1. In a bed structure, the combination with downwardly and upwardly adjustable end portions, of side rods, or links, connected with said downwardly-adjustable portion, and a second set of side rods, or links, secured rigidly to the upwardly-adjustable portion, and pivotally connected with the first-mentioned side rods, or links, whereby the upward swinging movement of the upwardly-adjustable end portion will lower the first-mentioned side rods, or links, and thereby cause the depression of the downwardly-adjustable end portion, substantially as described.

2. In a bed structure, the combination with the main fixed portion of the bed-bottom, of front and end sections thereof pivotally connected therewith, the front end section being adapted for downward adjustment, and the rear end section for upward adjustment, a pair of side rods pivotally connected to the front end sections, and a second pair of side rods secured rigidly to the rear end sections and pivotally connected with the rods which are connected to the front end sections, substantially as described.

3. In a bed structure, the combination with the downwardly-adjustable end portion and the upwardly-adjustable rear end portion, of a pair of side rods pivotally connected to the front adjustable portion, a second pair of side rods rigidly secured to the rear end portion, and pivotally connected directly to the first-mentioned side rods, and sectors attached to the front end section and adapted to engage the bed-frame, whereby the said sectors will lock the front end portion in downward adjustment, and will thereby also lock the rear end portion through the medium of the two sets of side rods, substantially as described.

4. In a bed structure, the combination with the main or body portion of the bed-bottom, of an end portion thereof adjustable relatively to said main portion, the said end portion comprising three relatively adjustable portions pivotally connected with one another, whereof the one next the body portion of the bed-bottom is relatively long and the intermediate portion is relatively short, whereby the outermost portion can be bent back closely to the first portion so as to lie parallel therewith, substantially as described.

In witness whereof I hereunto subscribe my name this 14th day of August, A. D. 1900.

LEVI N. BACHAND.

Witnesses:

GEORGE L. CRAGG,

HARVEY L. HANSON.