Jan. 1, 1924 1,479,345

J. F. WALTON

COUCH BED

Filed May 5, 1922 4 Sheets-Sheet 1

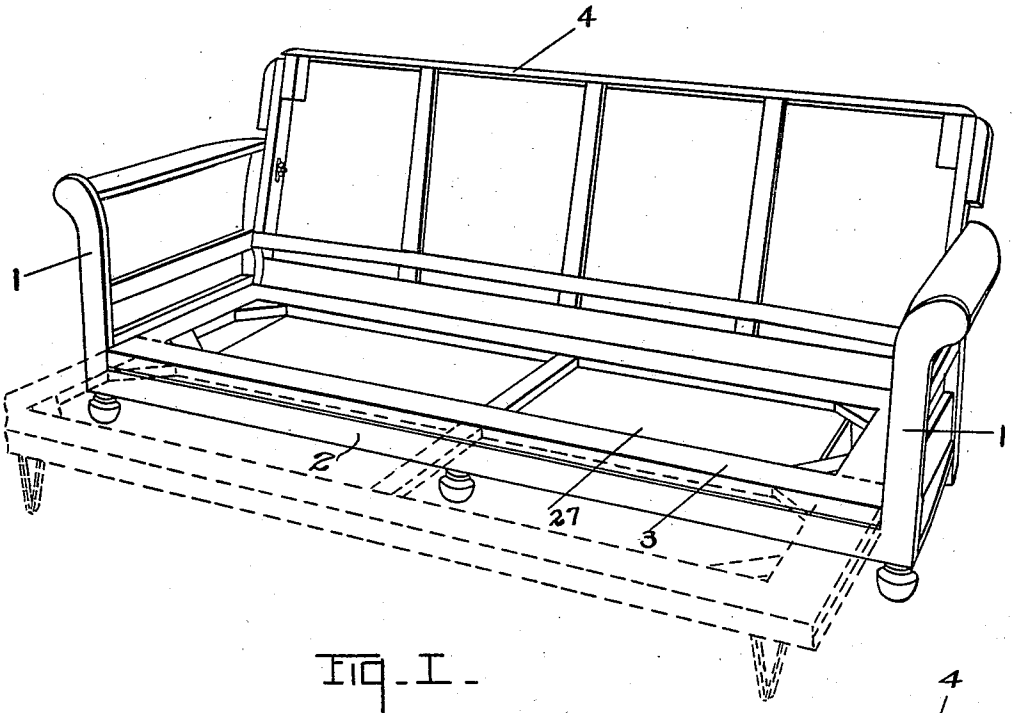


FIG. I.

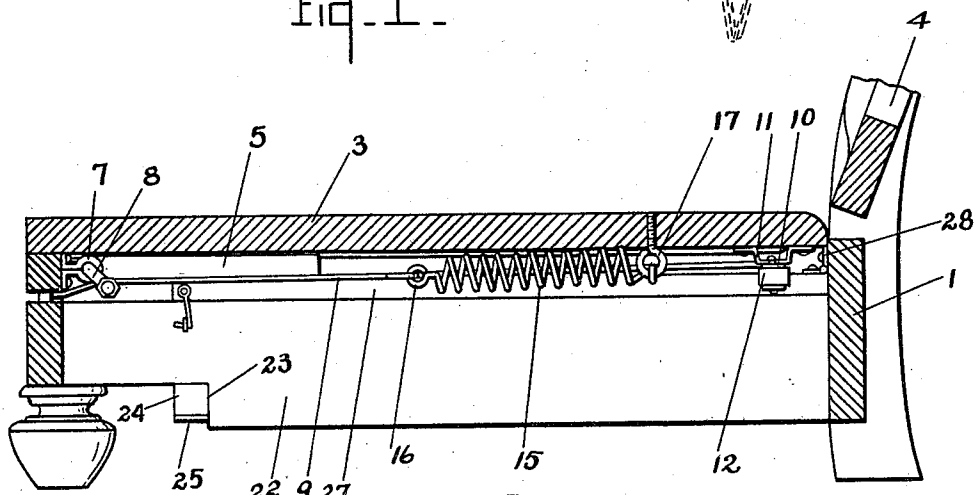


FIG. IV.

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Jan. 1, 1924 **1,479,345**

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COUCH BED

Filed May 5, 1922 4 Sheets-Sheet 2

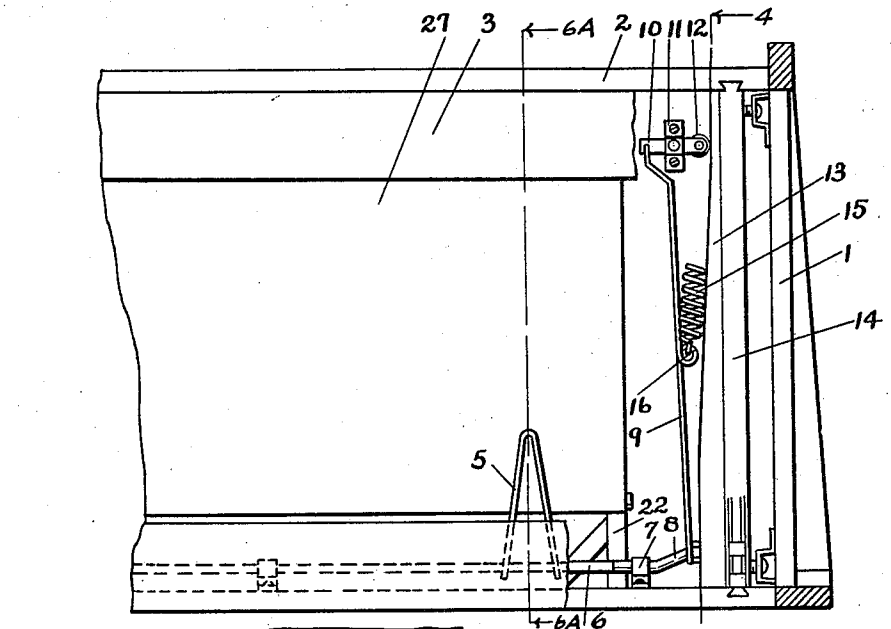


Fig. II.

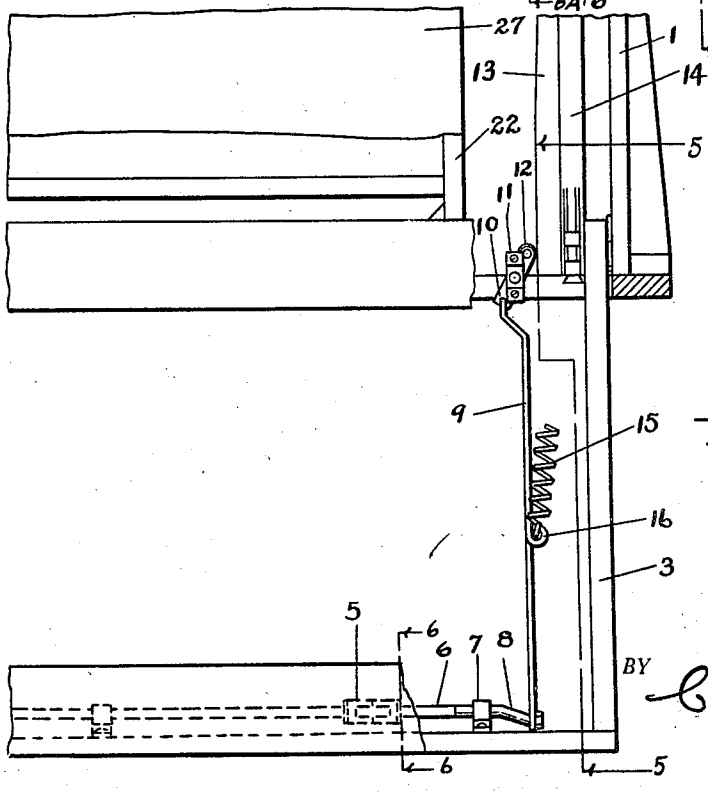


Fig. III.

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Jan. 1, 1924 1,479,345

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COUCH BED

Filed May 5, 1922 4 Sheets-Sheet 3

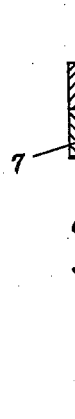


Fig. VI.

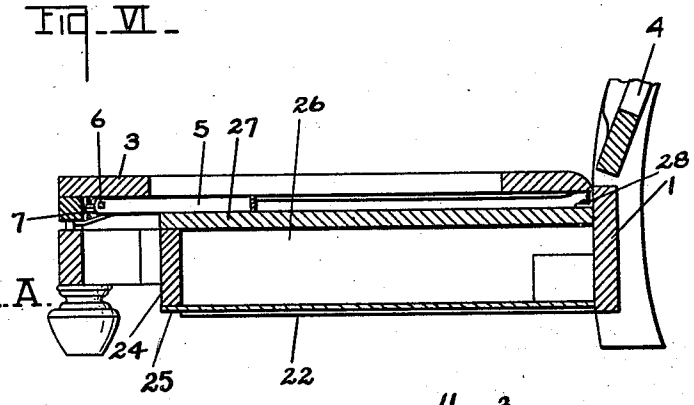


Fig. VI.A.

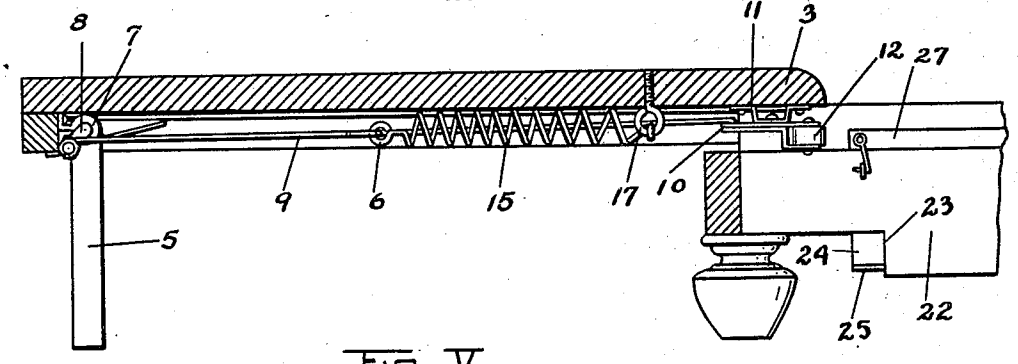


Fig. V.

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COUCH BED

Filed May 5, 1922 4 Sheets-Sheet 4

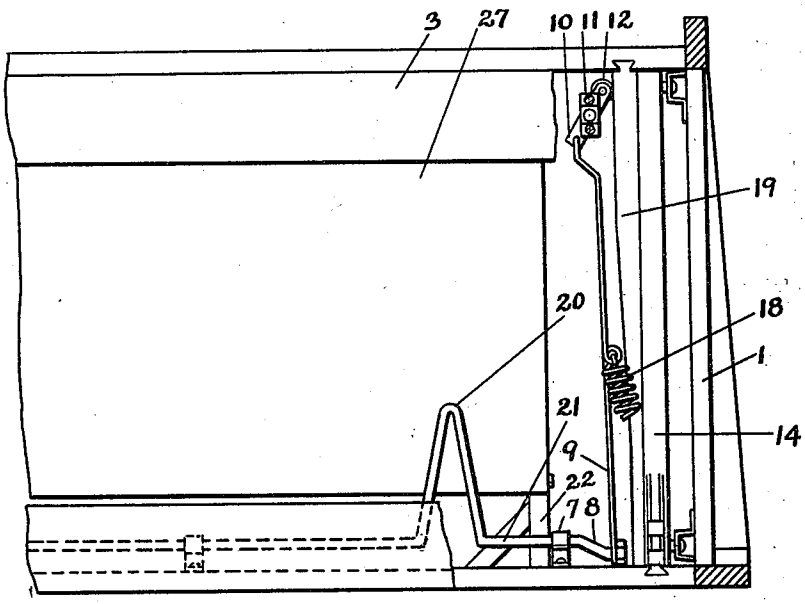


FIG. VII.

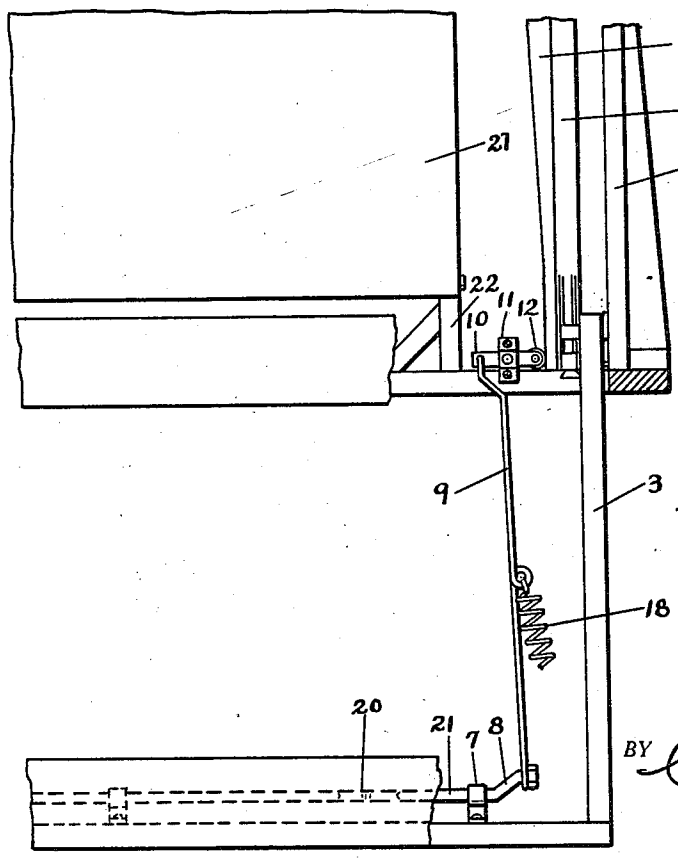


FIG. VIII.

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Patented Jan. 1, 1924. 1,479,345

UNITED STATES PATENT OFFICE.

JERROLD F. WALTON, OF STURGIS, MICHIGAN.

COUCH BED.

Application filed May 5, 1922. Serial No. 558,554.

To all whom it may concern:

Be it known that I, JERROLD F. WALTON, a citizen of the United States, residing at Sturgis, county of St. Joseph, State of Michigan, have invented certain new and useful Improvements in Couch Beds, of which the following is a specification.

This invention relates to improvements in couch beds.

This application is in the main a continuation of my applications for Letters Patent, Serial No. 496,117, filed Aug. 27, 1921, and Ser. No. 505,094, filed Oct. 3, 1921.

The main objects of the invention are:

First, to provide an improved bed couch having an extensible or adjustable section which is easily adjusted and the structure is neat and attractive in appearance, both when adjusted as a couch and as a bed.

Second, to provide an improved bed couch having an adjustable or extensible section in which such section is provided with legs which are automatically erected and collapsed upon the extending and collapsing of the adjustable section.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing, forming a part of this application, in which:

Fig. I is a front perspective view of a bed couch embodying the features of my invention, the adjustable section being shown in its extended position by dotted lines, the upholstering being omitted.

Fig. II is a fragmentary plan view, the end member being horizontally sectioned.

Fig. III is a detail plan view with the adjustable section in its extended position.

Fig. IV is a vertical section from front to rear on a line corresponding to line 4—4 of Fig. II.

Fig. V is a vertical transverse section on a line corresponding to line 5—5 of Fig. III.

Fig. VI is a detail vertical section on a line corresponding to line 6—6 of Fig. III, showing details of the leg support for the adjustable section.

Fig. VI^{A} is a detail transverse section on a line corresponding to line 6^{A}—6^{A} of Fig. II, showing details of the box or receptacle for bedding.

Fig. VII is a fragmentary plan view corresponding to that of Fig. II showing a modified form of my invention in which the leg is swung to erected position by means of the spring and is collapsed against the tension of the spring on the adjustable section being moved to its collapsed position.

Fig. VIII is a fragmentary view corresponding to that of Fig. III with the adjustable section in its extended position.

In the drawing similar reference characters refer to similar parts throughout the several views and the sectional views are taken looking in the direction of the little arrows at the ends of the sections lines.

Referring to the drawing, I provide a main frame comprising end members 1, 1 connected by the main bottom section, designated by the numeral 2. The adjustable or sliding section 3 is slidably mounted on the main section to telescope over the same when collapsed. The back 4 is mounted upon the end members 1. As the details of the mounting of the main frame 2 upon the end members and of the mounting of the back thereon form no part of this invention I have not illustrated or described the same in detail herein. They are, however, preferably such as I illustrate and described in my copending application filed concurrently herewith. The means for slidably supporting the adjustable section on the main section are also preferably those described in my said application.

The adjustable or slidable section is supported in its extended position by the legs 5 which are mounted upon the rod 6 journaled in bearings 7 at the front end of the slidable section. This rod is provided with a crank 8 at one end. The legs are preferably U-shaped as illustrated, being formed of flat bars of iron, the rod having non-circular cross section portions to engage the legs as shown in Fig. VI, thereby preventing rotative movement of the legs upon the rod. The bight portion of the legs form the bottom or foot end thereof, the arms being perforated to receive the rod.

The crank 8 is connected by the crank 9 to the actuating lever 10 pivoted on the bracket 11 mounted near the rear side of the adjustable section. This lever is pro-

vided with a roller 12 coacting with the cam member 13 secured on the inner side of the end rail 14 of the main frame 2. A coiled spring 15 is connected to the rod 9 which has an eye 16 therein for convenience in attaching the spring, the rear end of the spring being secured to the sliding section at 17.

With this arrangement of parts the legs are positively swung to erected position and held in erected position by the cam member when the adjustable section is extended or swung to collapsed position by the spring when the adjustable section is collapsed.

In the modification shown in Figs. VII and VIII the spring 18 is connected to the rod 9 so as to swing the legs to erected position when the adjustable section is extended, the cam 19 being arranged to collapse the legs against the action of the spring when the adjustable section is moved to its collapsed position. In this embodiment the legs 20 are formed integral with the supporting bar 21, the legs being formed by offsets or bends in the rod.

To provide a receptacle for bedding and the like I arrange the end pieces 22 in a spaced relation to the end rails 14 of the main frame providing space between these end pieces 22 and the end rails for the operating mechanism. These cross pieces are shouldered at 23 to receive the bar 24 which is thus supported in a spaced relation to the front rail of the main frame. The bottom 25 extends from this bar 24 to the rear longitudinal rail and between these cross bars 22 providing a receptacle 26 for the reception of the bedding and the like. This receptacle is provided with a cover 27 hinged at 28. The front of the cover is thus spaced from the front of the main section so that when the adjustable section is drawn to its forward position the cover can be opened.

With this arrangement of parts I provide a substantial storage space without in any wise interfering with the operating mechanism or increasing the bulk of the structure.

I have illustrated and described my improvements in forms or embodiments thereof which I have found very practical. I have not attempted to illustrate or describe certain other modifications or adaptations which I contemplate as I believe the disclosure made will enable those skilled in the art to which my invention relates to embody or adapt the same as may be desired.

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

1. In a couch bed, the combination of a main section, an adjustable section slidably associated therewith, a rod having a crank at one end disposed longitudinally at the front of the adjustable section and journaled thereon, legs on said rod, an actuating lever pivotally mounted at the rear of said adjustable section, a link connecting said crank to said lever, a cam member on said main section with which said lever coacts, and a coiled spring connected to said link so that the legs are erected by the coaction of the lever and cam member when the adjustable section is extended and the legs are collapsed by the spring when the adjustable section is moved to collapsed position.

2. In a couch bed, the combination of a main section, an adjustable section slidably associated therewith, legs for said adjustable section, a common supporting rod for said legs provided with a crank, a leg actuating lever pivotally mounted on said adjustable section, a link connecting said crank and lever, and a cam member on said main section with which said lever coacts positively shifting the legs to erected position when the adjustable section is extended.

3. In a couch bed, the combination of a main section, an adjustable section slidably associated therewith, a leg pivotally mounted on said adjustable section, an actuating lever pivotally mounted on said adjustable section and operatively connected to said leg, a cam member on said main section with which said lever coacts to erect the leg when the adjustable section is extended, and a spring operatively associated with said leg to collapse the same when the adjustable member is moved to collapsed position.

4. In a couch bed, the combination of a main section, an adjustable section slidably associated therewith, a leg pivotally mounted on said adjustable section, an actuating lever pivotally mounted on said adjustable section and operatively connected to said leg, a cam member on said main section with which said lever coacts to erect the leg when the adjustable section is extended.

5. In a couch bed, the combination of a main section, an adjustable section slidably mounted on said main section to telescope therewith, legs for said adjustable section, a leg supporting rod having a crank at one end thereof pivotally mounted at the front of said adjustable section, a leg actuating lever pivotally mounted at the rear of said adjustable section, a link connecting said crank to said lever, and a cam member on said main section with which said lever coacts.

6. In a couch bed, the combination of a main section, an adjustable section slidably mounted on said main section to telescope therewith, legs for said adjustable section, a common supporting rod for said legs provided with a crank, a leg actuating lever pivotally mounted on said adjustable section, a link connecting said crank to said lever, a spring operatively associated with

said legs to hold them in one position, and a cam member on said main section with which said lever coacts for positively shifting said legs to another position on the movement of the adjustable section.

7. In a couch bed, the combination of a main section, an adjustable section slidably associated therewith, a leg for said adjustable section, a leg support pivotally mounted on said adjustable section, a crank on said leg support, and a support actuating means comprising a lever pivotally mounted on said adjustable section, a cam on said main section with which said lever coacts, and operating connections for said lever to said crank.

In witness whereof, I have hereunto set my hand and seal.

JERROLD F. WALTON. [L. S.]