

J. LUDWIG.
EXTENSIBLE BED OR COUCH.
APPLICATION FILED JAN. 30, 1908.

932,794.

Patented Aug. 31, 1909.
2 SHEETS—SHEET 1.

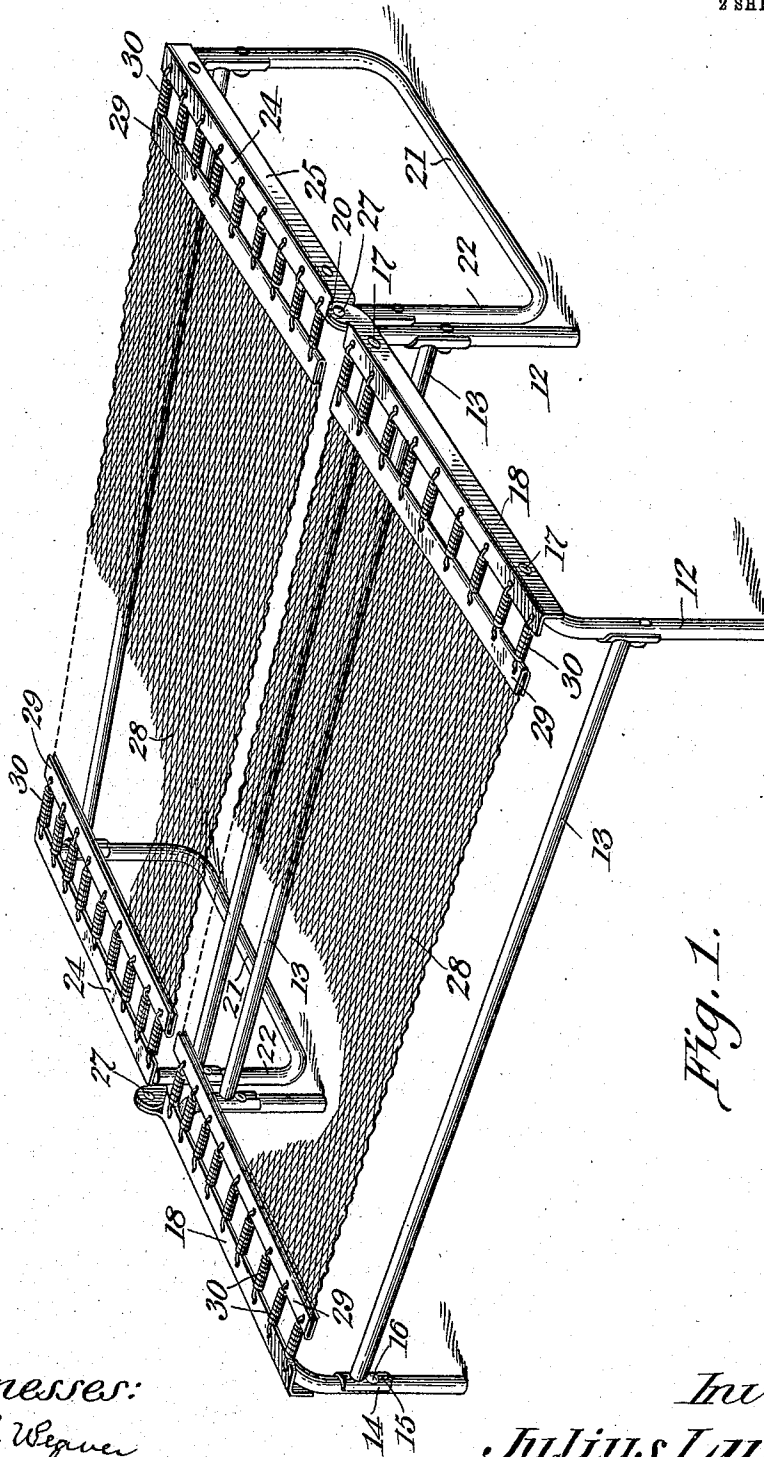


Fig. 1.

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Fig. 3.

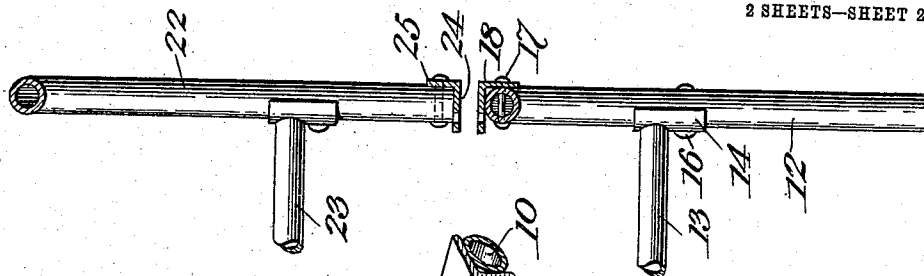


Fig. 4.

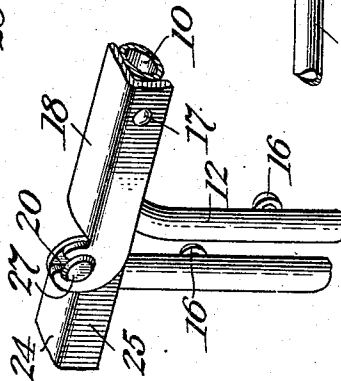
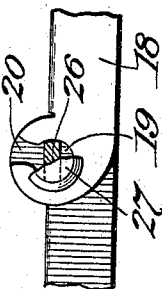
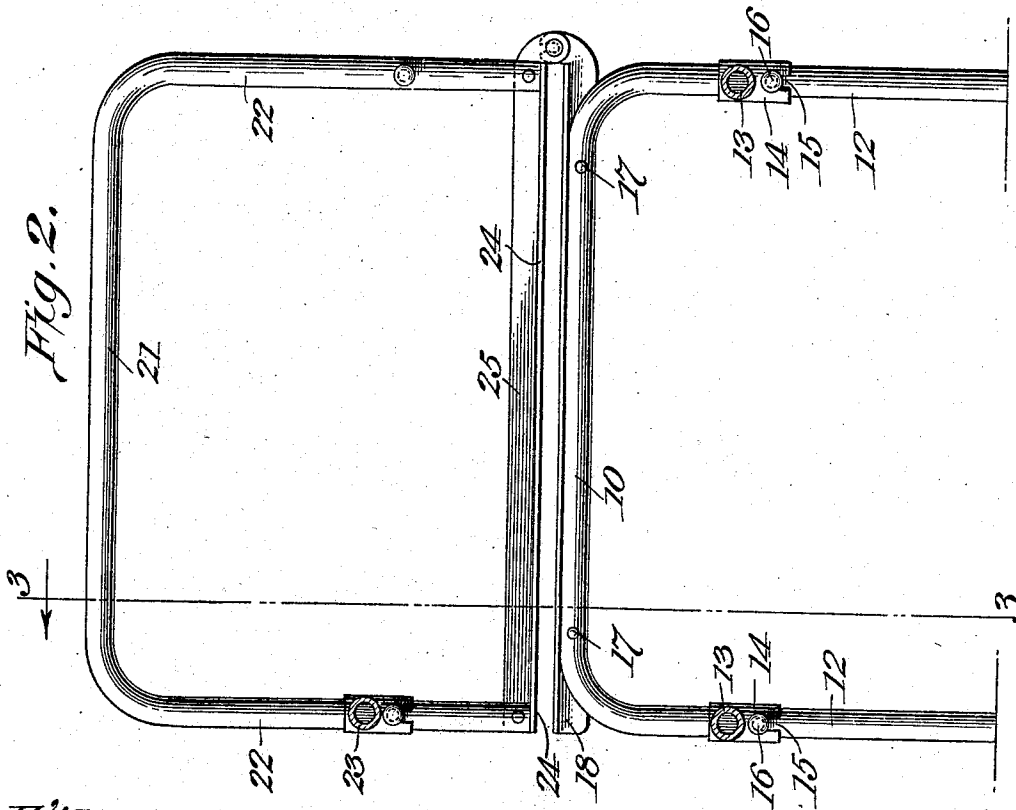


Fig. 5.

Fig. 2.



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UNITED STATES PATENT OFFICE.

JULIUS LUDWIG, OF NEW YORK, N. Y.

EXTENSIBLE BED OR COUCH.

932,794.

Specification of Letters Patent.

Patented Aug. 31, 1909.

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To all whom it may concern:

Be it known that I, JULIUS LUDWIG, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Extensible Beds or Couches, of which the following is a specification.

My present invention relates to certain new and useful improvements in extensible beds or couches of that type wherein two bed-sections are employed and connected together in such manner that one section may be folded over upon the other or the two sections may be caused to assume positions side-by-side whereby to provide a double bed.

The prime object of the invention is to provide a bed or couch of the character stated wherein the two bed-sections are provided with complementary hinge members having provision for ready separation when the sections are in a predetermined position in order that the two bed-sections may be readily detached and used separately as single beds; may be joined side-by-side and utilized as a double bed, or one section may be superposed upon the other to form a couch.

A further object of the invention is to provide a couch or bed of the character described that may be easily and quickly taken apart and the several members or units closely packed for shipping or storage purposes.

A still further object of the invention is to provide an extensible bed or couch wherein the several parts or members are of simple but durable and cheap construction the arrangement being such that all said parts or members may be readily cleaned.

In order to enable others to understand, make and use my said invention I will now proceed to describe the same in detail reference being had for this purpose to the accompanying drawing, wherein—

Figure 1 is a perspective view of the bed or couch, the two members being extended to form a double bed. Fig. 2 is a transverse sectional view of the two members when folded to form a couch. Fig. 3 is a detail sectional view taken on the line 3—3 of Fig. 2. Fig. 4 is a detail view, partly in section of a pair of the hinge members. Fig. 5 is a perspective view of a pair of the complementary hinge members.

Like reference numerals indicate corresponding parts throughout the several figures of drawings.

The main bed-section consists of the two end members each comprising a U-shaped bar, rod or tube having the end rails 10, and legs 12, said members being detachably joined together by means of the two side rails 13, each of which is provided at its opposite ends with curved plates 14, having open slots 15, which take over headed studs 16, secured to the legs 12. By some such construction, (and I do not wish to be understood as limiting myself to that shown) the several parts of the bed may be readily taken apart for shipping or storing. Secured to each end rail 10, by means of bolts or rivets 17, is an angle iron 18, one web of which at an end of the said iron is projected upwardly and carries one member of a hinge. In the instance shown this member consists of a circular opening 19, having a lateral slot or way 20, communicating therewith as more clearly shown in Figs. 4 and 5. The other or extensible bed section is also made up of the two U-shaped end members as shown, each having the end rails 21, and legs 22, said legs being connected by the detachable side rails 23, having the curved plates 14, and slots 15, which take over headed studs 16, carried by the legs 22, as previously described with reference to the construction of the main bed section.

An angle iron extends transversely between and connects the legs 22, of each U-shaped end member, the horizontal web 24 of said angle iron extending under the ends of the legs as more clearly shown in Figs. 2 and 3. The vertical web 25 at one end of each angle iron is extended outwardly as shown and projects beyond the plane of the horizontal web 24, said projecting end being provided with a hinge member which is complementary to the hinge member on the main bed section. This hinge member in the instance shown consists of a laterally projecting flat shank 26, having a disk-like head 27, at its end as more clearly shown in Figs. 4 and 5.

By the peculiar construction and arrangement of the interlocking hinge members it will be seen that the two bed sections cannot become accidentally separated either when the sections are superposed or when they are extended, and in fact owing to the position

of the lateral slot or way 20, relatively to the flat shank 26, the bed sections can be separated only when these two parts are brought into alinement. The bed sections may, however, be readily separated when one section is brought into a predetermined position relatively to the other, and when separated the sections may be moved about and placed as desired for independent use.

By reason of the peculiar structure of the bottom frames and the manner of attaching the wire fabric thereto it will be seen that these sections, when one is superposed on the other, lie in substantially contact relation, thus providing an actual double bottom when the device is being used as a couch, or single bed.

Any suitable construction of springs may be employed with the bed sections, although I prefer the construction shown in Fig. 1, of the drawing which consists of a strip of woven wire 28 for each section, each strip having its opposite ends provided with a metallic binding 29. The woven wire strips are secured under tension to the angle irons carried by the bed-sections by means of stout coiled springs 30, the opposite ends of which are provided with hooks which take into apertures in said angle irons as clearly shown in the drawing.

By the construction herein shown and described I have provided a combined extensible bed or couch, the sections of which may be joined and folded one upon another; may be opened and positioned side-by-side to form a double bed, or they may be readily dis-

connected and used independently as separate beds.

What I claim is:

In an article of furniture of the character described comprising a substantially stationary and a movable section, said sections comprising each a pair of U-shaped metallic bars, a pair of horizontal bars connecting each pair of said U-shaped bars, an angle-iron bar riveted to each of said U-shaped bars and having its inner portion immediately adjacent the U-shaped bar whereby the angle-bars of the movable section may be readily superposed upon the angle-bars of the stationary section, the adjacent portions of said angle-iron bars providing hinges whereby the sections are connected, a fabric connecting the angle-bars of each section, the fabric of the movable section adapted to overlie and contact with the fabric of the stationary section and provide a substantially double bottom therewith when the article is used as a couch, and to lie on an even plane with the fabric of the stationary section when the article is used as a bed, and means for detaching said sections when the movable section is brought into a position at substantially right angles with the stationary section.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JULIUS LUDWIG.

Witnesses:

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