

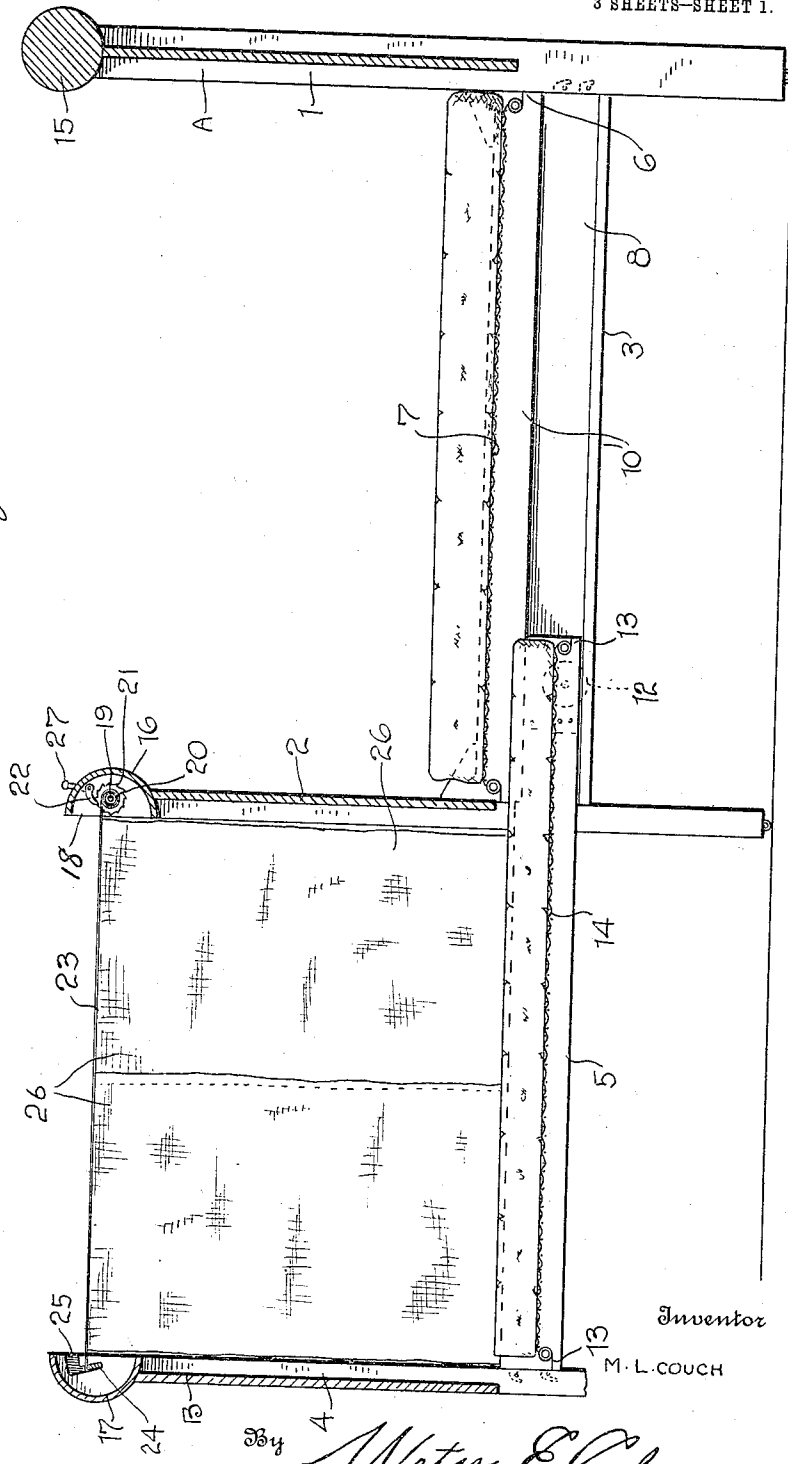
1,069,320.

M. L. COUCH.
EXTENSION BED.
APPLICATION FILED MAR. 22, 1913.

Patented Aug. 5, 1913.

3 SHEETS—SHEET 1.

Fig. 1



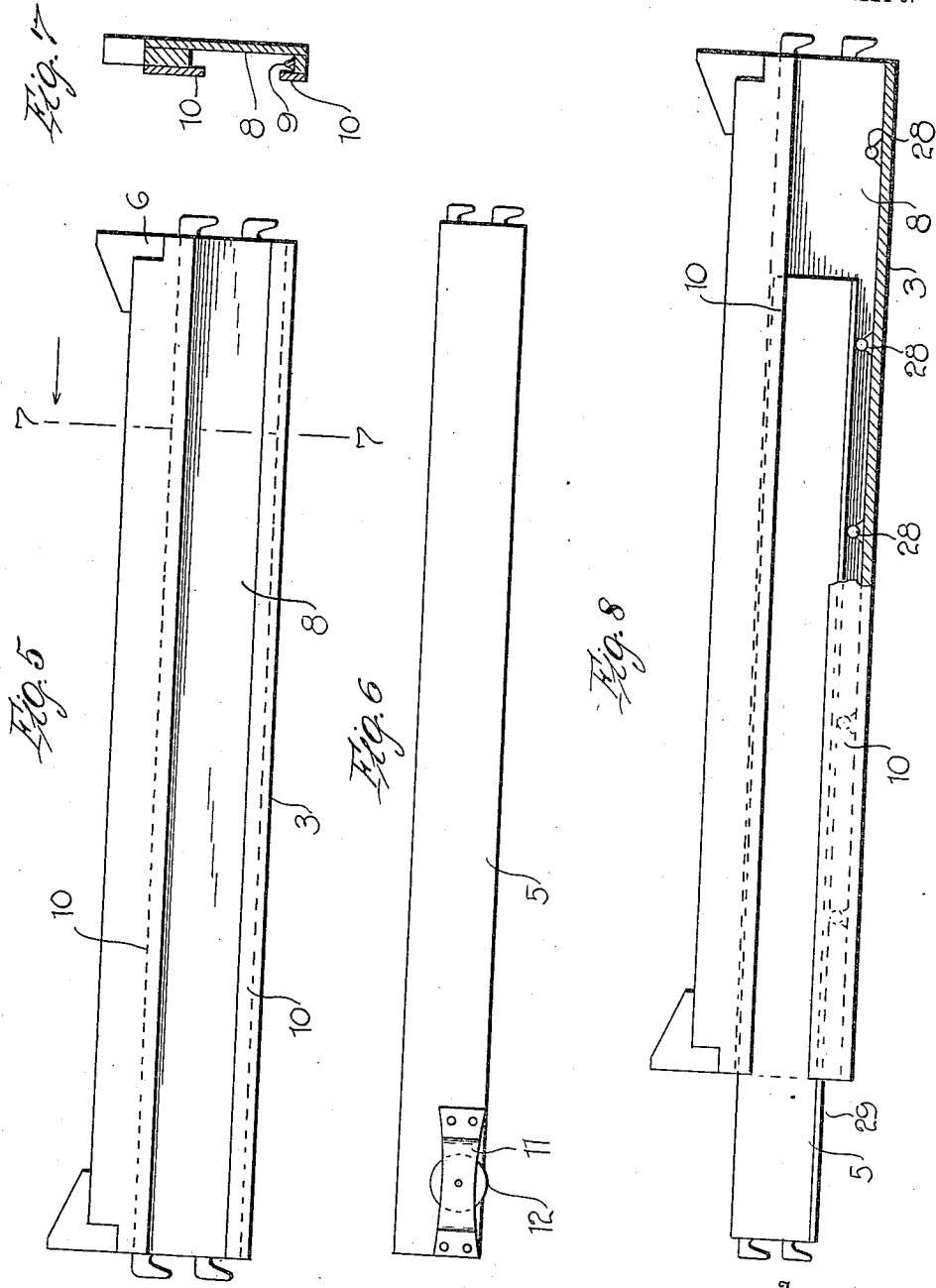
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UNITED STATES PATENT OFFICE.

MARVIN LESLIE COUCH, OF AVINGER, TEXAS.

EXTENSION-BED.

1,069,320.

Specification of Letters Patent.

Patented Aug. 5, 1913.

Application filed March 22, 1913. Serial No. 756,269.

To all whom it may concern:

Be it known that I, MARVIN LESLIE COUCH, a citizen of the United States, residing at Avinger, in the county of Cass and State of Texas, have invented certain new and useful Improvements in Extension-Beds, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in extension beds, and more particularly to that class of beds which are longitudinally extensible.

An object of this invention is the provision of a bed comprising two sections, the side rails of which are telescopingly connected, so that the bottom of the extension is arranged beneath the bottom of the main section of the bed when the extension is not in use.

Another object of this invention is the provision of an extension bed, having means whereby the extensible portion of the bed may be entirely covered by netting, to protect the occupant from mosquitos or other insects.

A further object of this invention is the provision of an extension bed, the main portion comprising a head board, foot board, and side rails, the extensible portion comprising a foot board and side rails which are slidably connected to the side rails of the main portion of the bed, the foot boards being constructed so that when the bed is closed, they will be in the same shape as the head board of the main frame, whereby the device will have the general appearance of an ordinary bed.

With these and other objects in view, my invention consists in certain novel constructions, combinations and arrangements of parts, to be hereinafter more fully described, claimed and illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal section of my device showing the sections of the bed in partially extended position. Fig. 2 is a longitudinal section showing the sections in closed position. Fig. 3 is a section of the top rail of the foot board of the movable section. Fig. 4 is a section of the top rail of the foot board of the stationary section. Fig. 5 is a side elevation of one of the side rails of the stationary section. Fig. 6 is a side elevation of one of the side rails of the movable section. Fig. 7 is a section on the

line 7—7 of Fig. 5; and Fig. 8 is a side elevation partly in section of the modified form of the side rails.

Referring more particularly to the drawings, the letter A designates the main section of the bed which comprises a head board 1, foot board 2 and side rails 3, and the letter B designates the extensible section of the bed which comprises a foot board 4 and side rails 5. The side rails 3 are formed with recesses 6 in their upper edge at their opposite end for the reception of the end bars of a spring 7 which may be of any desired construction. Each of the side rails 3 is formed in its inner face with a longitudinal groove 8, and a wear plate 9 is secured to the lower wall of each groove. Secured to the inner face of each rail 3 are a pair of guide bars 10, the adjacent edges of which are adapted to project over the walls of the grooves 8, to form channels. Each of the side rails 5 of the extensible section has secured to its free end a bearing 11 in which is mounted a rotatable wheel 12, the wheels being adapted for engagement in the grooves 8 in the side rails 3, and being maintained in position in the grooves by the plates 10. Each of the rails 5 is formed in its inner face at the opposite end thereof with recesses 13 in which the end bars of a suitable spring 14 are adapted to seat, the spring 14 being spaced from the spring 7, so that any desired bedding may be disposed upon the spring 14.

The head board 1 is provided with a top rail 15 which is preferably cylindrical in shape, and the foot board 2 is provided with a top rail 16 which is semi-cylindrical. The foot board 4 of the extensible section is also provided with a semi-cylindrical top rail 17, so that when the sections are in closed position the top rails 16 and 17 form a cylindrical foot board, so that the device will have the general appearance of an ordinary bed. Recesses 18 are formed in the end walls of the top rail 16, the slots being adapted to receive the projecting pins 19 of a spring roller 20, the roller being provided with a ratchet wheel 21, with which a pawl 22 secured to one of the end walls of the top rail 16 is adapted to engage. Rolled on the drum 20 is a strip of netting 23, the free end of which has secured thereto a bar 24 which is adapted for engagement in slots formed in the top rail 17 of the foot board 4. In the practical use of my device, it will

be seen that when the sections are in closed position, the device will have the appearance of an ordinary bed, and when the extensible section is moved outwardly, the bed is adapted to support four persons. When the extensible section B is moved outwardly, the netting is unrolled from the drum 20, by reason of the engagement of the bar 24 in the slots 25 of the side flaps 26 which are also composed of reticulated material and again lowered, so as to completely close the extensible portion B of the bed to protect the occupants thereof from mosquitos and all other insects. When it is again desired to close the bed, the side flaps 26 are disposed upon the strip 23 of netting, so that the flaps and strip will be rolled upon the drum when the section B is moved toward the section A of the bed. The pawl 22 is adapted to engage the ratchet wheel 21 to prevent strain from being imposed upon the netting by reason of the spring in the drum 20, and when the sections of the bed are to be closed the pawl 22 is released from engagement with the ratchet wheel by the finger piece 27 which projects outwardly from the wall of the top rail 16.

In Fig. 8 of the drawings is illustrated a slightly modified form of my invention in which the bottom walls of the grooves 8 in the side rails 3, are provided with a series of rollers 28, and the bottom faces of the side rails of the extensible section are provided with wearing plates 29 which are adapted to rest upon the rollers 28 so that the extensible section may be moved longitudinally with relation to the main section of the bed with a minimum degree of friction.

It will be seen from the drawings that I have provided a bed which may be readily extended to support a number of persons, and one which comprises a minimum number of parts, and which therefore may be cheaply manufactured.

While the construction illustrated in the accompanying drawings is the preferred embodiment of my invention it should be understood that minor changes in construction may be resorted to without departing from the spirit of my invention or sacrificing any of its advantages, as determined by the scope of the appended claims.

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

1. An extension bed comprising a stationary section and a longitudinal extensible section, each of said sections having a foot board, a semi-tubular top rail secured to each of said foot boards, an extensible net mounted in one of said top rails, the free end of said net being connected to the other top rail, said net being inclosed within said top rails when the sections of the bed are closed, as and for the purpose described.

2. An extension bed comprising a stationary section and a longitudinally extensible section, said stationary section having a head board and a foot board, a tubular top rail secured to said head board, said extensible section having a foot board, a top rail secured to each of said foot boards, each of the last mentioned top rails being semi-tubular in form whereby the top rails of the section when closed form a tubular top rail for the foot board of the bed.

3. An extension bed comprising a stationary section and an extensible section, each of said sections being provided with a foot board, a semi-cylindrical top rail secured to each of said foot boards, a roller secured in one of said top rails, a strip of netting wound upon said roller, and the free end of said strip being secured to the other top rail, as and for the purpose described.

4. An extension bed comprising a stationary section and an extensible section, the side rails of said stationary section being formed with longitudinal grooves, the side rails of said extensible section being slidably disposed in said grooves, each of said sections having a foot board, a semi-cylindrical top rail secured to each of said foot boards, a spring roller mounted in one of said top rails, a strip of netting wound upon said roller, slots formed in the other top rail, and a bar secured to the free end of said strip and adapted to engage with said slots, as and for the purpose described.

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

MARVIN LESLIE COUCH.

Witnesses:

G. V. LEEVES,
J. M. MITCHELL.