March 20, 1928.

E. E. McGREW

1,663,210

BED LEG

Original Filed Sept. 2, 1924

Fig. 1.

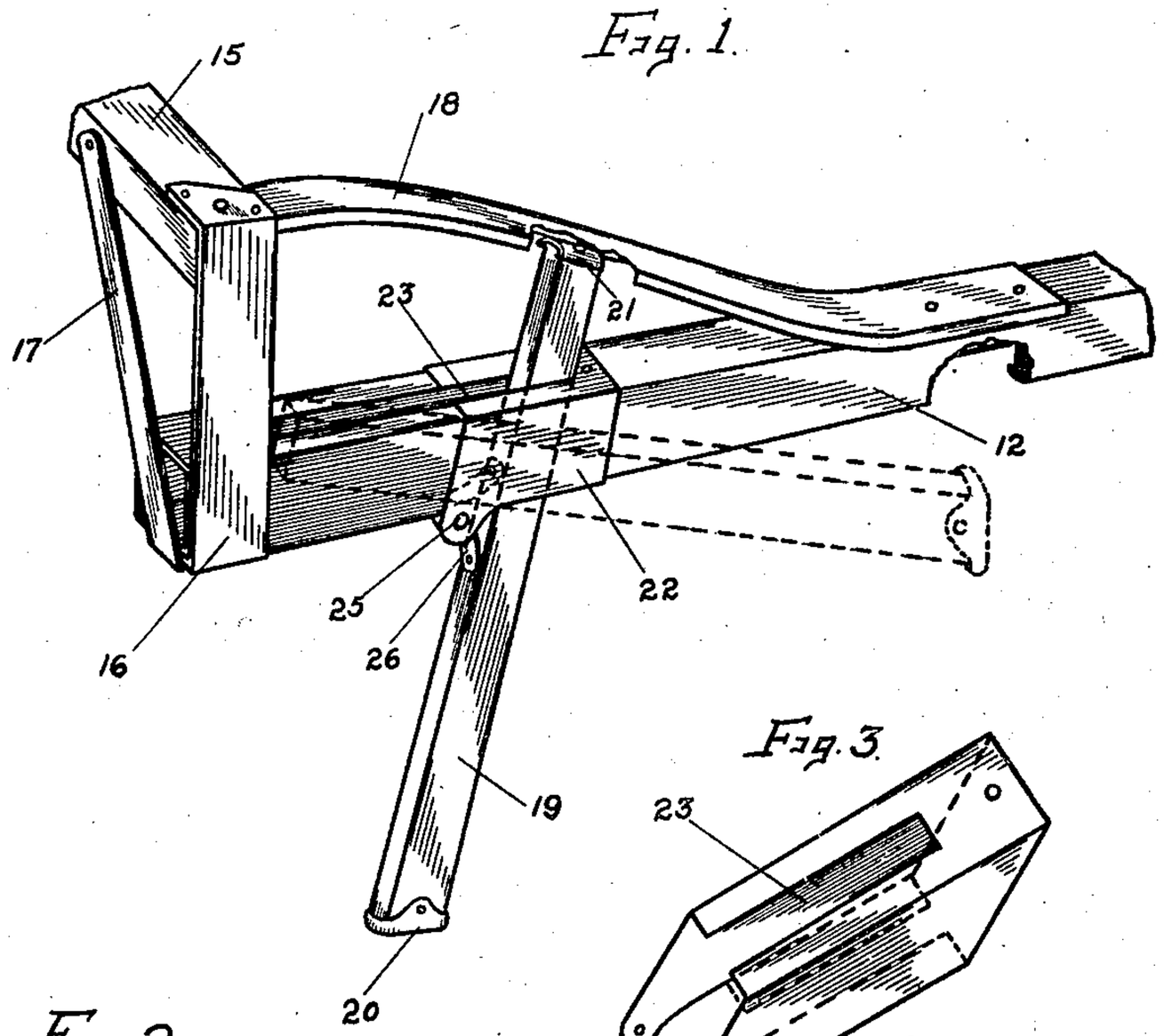


Fig. 3.

Fig. 2.

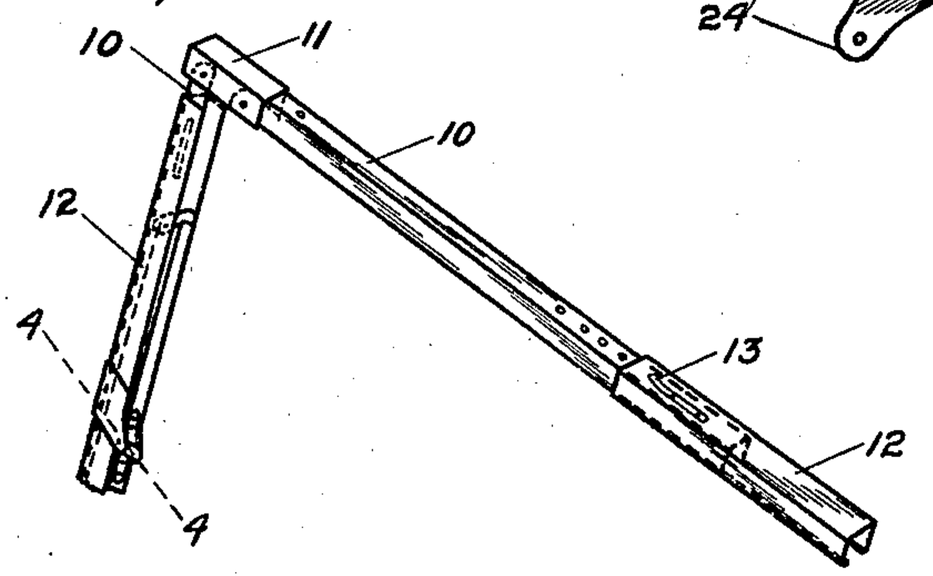


Fig 5

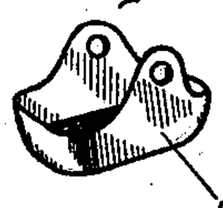
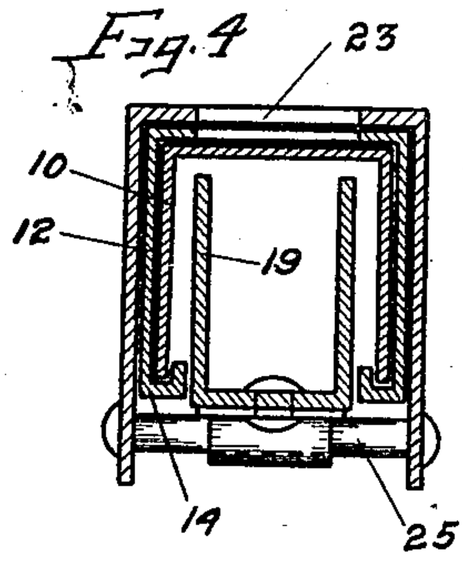


Fig. 4



E. E. McGREW. Inventor

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UNITED STATES PATENT OFFICE.

EARL E. McGREW, OF LINCOLN, NEBRASKA, ASSIGNOR TO McGREW MACHINE COMPANY, OF LINCOLN, NEBRASKA, A CORPORATION OF NEBRASKA.

BED LEG.

Original application filed September 2, 1924, Serial No. 735,513. Divided and this application filed June 11, 1926. Serial No. 115,281.

My invention relates to bed legs and especially to the bed leg in its relation to the side and end rails of the bed frame. Its object is the provision of a bed leg which may be folded and unfolded with reference to the bed frame, which is thoroughly braced especially when it is in its set-up position and which possesses a number of novel features in its construction. Especially is it my object to provide a leg for the folding camp bed described in my copending application, Serial Number 735,513, filed September 2, 1924, of which application this present application is a division.

Referring now to the drawings,

Figure 1 is a view in perspective of the corner of my folding camp bed showing the end portions of an end rail and a side rail and showing particularly the bed leg in its relation to the side rail.

Figure 2 is a view in perspective on a reduced scale of a side rail, the right-hand half of which is fully telescoped and partly folded.

Figure 3 is a view in perspective of the box-like structure which reinforces the side rail and which serves as a pivot support for the bed leg.

Figure 4 is a section on the line 4—4 of Figure 2.

Figure 5 is a view in perspective of the foot.

As fully set forth in the copending application above referred to, the side rails of the folding camp bed each comprise four sections, as shown in Figure 2. The inner sections 10 are each pivotally connected to a channeled link 11 and each section 10 is adapted to telescope into a section 12. The sections 10 and 12 may be held in their extended relation by means of a latch 13 as more fully described in my copending application. The sections 10 and 12 are both channel steel, the edges of the section 12 being inturned at 14 to form guideways for the edges of the section 10.

In the construction of the bed, the end rail 15 is secured to the side rail 12 by means of a strap 16 which holds the end and side rails in spaced-apart relation. The strap 17 serves as a brace between the end and side rails. The channelled member 18 also connects the end and side rails to brace the two rails and it additionally serves as a guideway for the bed leg in its movements.

The leg itself is best shown at 19 in Figure 1. It is also formed from channeled metal and it is provided with a foot 20 at its lower end and with a shoe 21 at its upper end. The box-like structure 22 shown in Figure 3 is secured to the side rail 12, slits 23 being formed in the upper surface of both the side rail and the box-like structure 22. The lower part of the side rail 12 is, of course, open and the corresponding side of the box-like structure 22 is formed by inturning the lower edges in such a way as to leave an opening between them. The box-like structure 22 is rigidly secured to the side rail 12 and it is provided with a pair of ears 24 which serve as a support for the pivot pin 25. Secured to the leg is a strap 26 partly surrounding the pivot pin 25. It will thus be seen that the leg 19 is foldable into and out of the channelled sections of the side rail, the upper portion of the leg being guided in its pivoted movement in the slots 23.

The strap 18 is channeled on its under side and serves as a guideway for the shoe 21. Throughout a portion of its length it is arcuate. The strap 18 thus serves not only as a guideway for the leg in its folding and unfolding movements but it serves also as a support for the leg to release part of the pressure from the pivot pin and carries much of the weight of the bed. The foot 20 functions primarily as a smooth support for preventing injury to floors, and it functions secondly as a latch to prevent the premature unfolding of the leg. It should be noted that the leg is firmly latched when the sections 10 and 12 are in their telescoped relation but in the unfolding of the bed the legs would be apt to drop out prematurely after the sections 10 and 12 have been extended. The foot 20, however, causes a binding action against the inturned edges of the side rail and prevents the release of the leg until it is desired to withdraw the leg.

Having thus described my invention in such full, clear, and exact terms that its construction and operation will be readily understood by others skilled in the art to which

it pertains, what I claim as new and desire to secure by Letters Patent of the United States is:

1. In combination with the channel iron side rail of a bed, the open side of the channel iron being the bottom side of the side rail, a box secured to and surrounding said side rail, said box being provided with a pair of depending ears, a leg pivotally connected with said depending ears and normally inclined to the side rail when the leg is in its supporting position, the leg being foldable on its pivot into said channel iron side rail.

2. In combination with the channel iron side rail of a bed, the open side of the channel iron being the bottom side of the side rail, a box secured to and surrounding said side rail, said box being provided with a pair of depending ears, a leg pivotally connected with said depending ears and normally inclined to the side rail when the leg is in its supporting position, the leg being foldable on its pivot in said channel iron side rail, said side rail and box being provided with a slot for the passage of the leg in its pivotal movement, the inner end of the slot constituting a reinforced abutment for the leg when the leg is in its supporting position.

3. In combination, a bed rail in channel form and a leg pivotally secured thereto and foldable therein, said bed rail having inturned edges, and a foot at the lower extremity of said leg, said foot projecting beyond the sides of said leg and being adapted to engage the inturned edges of said bed rail to prevent the accidental unfolding of said leg.

4. In combination, a bed rail in channel form and a leg pivotally secured thereto and foldable therein, the edges of said bed rail being inturned, and a foot secured to said leg at its lower extremity, said foot being cup shaped and being adapted to fit snugly over the lower portion of the leg, said foot having a width which is slightly greater than that of the leg whereby said foot will be engaged by the inturned edges of said bed rail when said leg is completely infolded in said bed rail.

5. In a bed, a bed rail having an upstanding bracket secured thereto, said rail being provided with a vertical slot adjacent said bracket, a leg member pivotally connected to said rail on the under side thereof and projecting through the slot in said rail and above the upper surface of said rail, and an arcuate member extending from the upper extremity of said bracket to the upper surface of said rail, said arcuate member being channeled on its under side to function as a guideway for the upper extremity of said leg during the pivotal movements thereof.

6. In a bed, a bed rail of channel form and having a top wall and a pair of side walls, ears depending from the side walls of said bed rail, a leg pivotally secured at an intermediate point to said ears, the top wall of said bed rail being provided with an elongated slot for receiving the upper portion of said leg, an upstanding bracket secured to said bed rail, an arcuate member extending from the upper extremity of said bracket to said bed rail and overlying the slot in said bed rail, said arcuate member being channeled to slidably receive the upper extremity of said leg, said leg being foldable into said bed rail, and cooperating means at the lower extremity of said leg and on the lower edges of the side walls of said bed rail for releasably latching said leg in said bed rail.

In testimony whereof I affix my signature.

EARL E. McGREW.