

June 11, 1935.

R. BOYD

2,004,549

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2 Sheets-Sheet 1

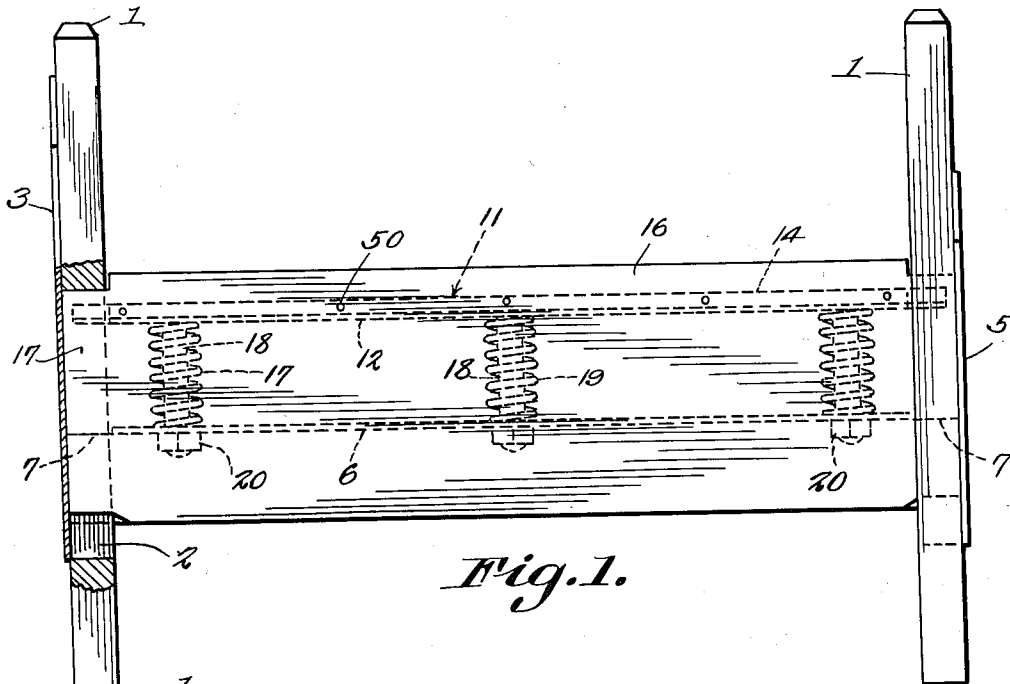


Fig. 1.

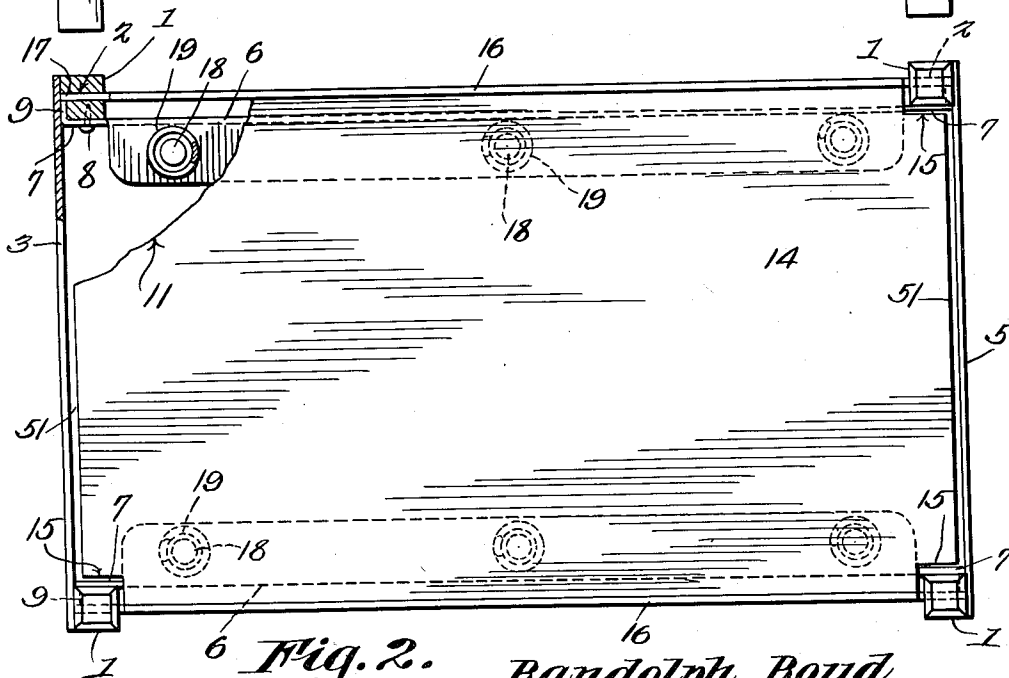


Fig. 2.

Randolph Boyd

Inventor

By *C. A. Snow & Co.*
Attorneys.

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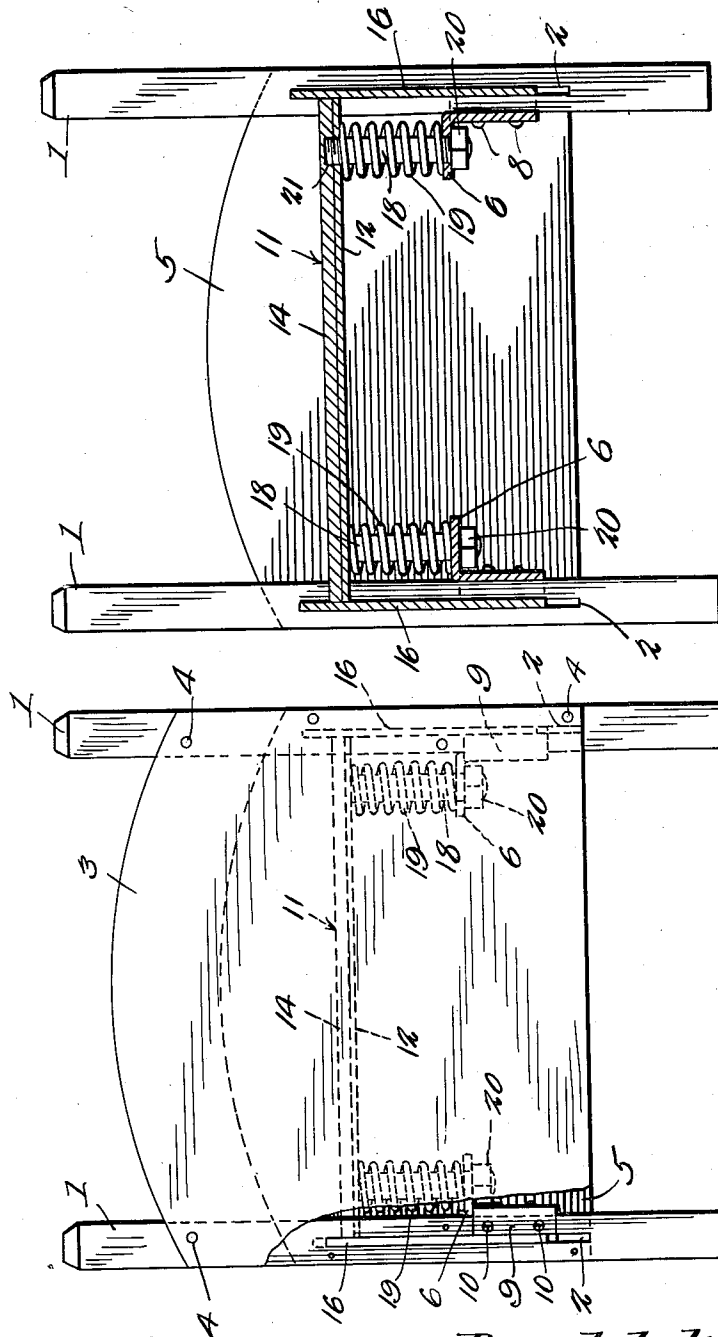
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2 Sheets-Sheet 2



Randolph Boyd
Inventor

By *Ca Snow & Co.*
Attorneys.

UNITED STATES PATENT OFFICE

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Randolph Boyd, Galva, Ill.

Application April 21, 1934, Serial No. 721,792

4 Claims. (Cl. 5—210)

This invention aims to provide novel means for supporting a bed bottom or platform yieldably, to provide novel means whereby the working parts of the structure are hidden from view, and to supply a device of the class described which will be inexpensive to manufacture, simple in construction, and capable of withstanding hard use.

Other objects will be made manifest as the description proceeds. A mechanic, working within the scope of what is claimed, may depart from the precise showing of the drawings without departing in a corresponding degree from the spirit of the invention.

Fig. 1 is a side elevation, parts being broken away, Fig. 2 is a top plan, parts being broken away, Fig. 3 is an end elevation, parts being broken away, and Fig. 4 is a cross section.

The drawings show a bedstead frame comprising corner posts 1. The posts 1 have vertical guide slots 2. The slots 2 extend entirely through the posts 1. The posts 1 at the head of the bed are connected by a head plate 3. The head plate 3 is secured at 4 to the outer surfaces of the posts 1 which are at the head of the bed. The posts 1 at the foot of the bed are similarly connected by a foot plate 5.

Each post 1 at the head of the bed is connected to the corresponding post at the foot of the bed by side rails 6. The side rails 6 may be angle bars, having inwardly-projecting horizontal flanges. The vertical flanges of the side rails 6 are prolonged to form brackets 7, secured at 8 to the inner surfaces of the posts 1. The brackets 7 include outwardly projecting arms 9, which may be set into the outer surfaces of the posts 1. The arms 9 are secured at 10 to the posts 1. The arms 9 and the securing elements 10 are hidden by the foot plate 5 and the head plate 3.

A platform 11 is disposed between side plates 16, the platform including if desired, a bottom member 12 and a top member 14, which are secured together. The bottom member 12 may be made of metal, and the top member 14 may be made of wood or any other suitable substance. The longitudinal edges of the top member 14 of the platform 11 are secured at 50 to the side plates 16. The platform 11 is disposed far enough below the upper edges of the side plates 16, so that the upper portions of the side plates can retain a mattress (not shown) against lateral displacement. The platform 11 is cut away at its corners, as shown at 15, to accommodate the posts 1. The ends of the platform 11 are spaced

as shown at 51 from the head plate 3 and the foot plate 5.

The side plates 16 have reduced ends 17. The ends 17 of the side plates 16 have vertical movement in the guide slots 2 of the posts 1. The ends of the side plates 16 are in slidable contact with the head plate 3 and the foot plate 5. This construction holds the ends of the platform 11 spaced, as at 51, from the inner surfaces of the head plate 3 and the foot plate 5. Therefore, the inner surface of the head plate 3 and the foot plate 5 will not be marred when the platform 11 moves up and down, and the platform and the side plates 16 will be prevented from moving endwise.

Depending studs 18 are secured at their upper ends in the platform 11. Compression springs 19 surround the studs 18. The upper ends of the compression springs 19 bear against the bottom member 12 of the platform 11. The lower ends of the compression springs 19 bear against the horizontal flanges of the side rails 6. The springs 19 form a yieldable support for the platform 11. Nuts 20, or similar adjusting devices, are mounted on the lower ends of the studs 18. The nuts 20 constitute a means whereby the platform 11 may be made level, the nuts engaging the horizontal flanges of the side rails 6, wherein the studs 18 are vertically slidable. The upward movement of the platform 11, responsive to the springs 19, may be limited either by the engagement between the nuts 20 and the horizontal flanges of the side rails 6, or by the engagement between the ends 17 of the side plates 16 and the posts 1 at the upper ends of the slots 2, or by both of the instrumentalities mentioned. The side plates 16 extend downwardly far enough to hide the working parts from view. The same thing is true respecting the head plate 3 and the foot plate 5. The bed, therefore, is characterized exteriorly by no peculiarities of appearance.

In practical operation, the platform 11 can move downwardly and upwardly as the springs 19 yield and expand, the ends 17 of the side plates 16 of the platform sliding in the vertical guide slots 2 of the corner posts 1.

What is claimed is:

1. A bed frame comprising head and foot members, side rails connecting the head and foot members, a platform, side plates connected to the platform, the head and foot members of the bed frame having guides wherein the ends of the side plates have vertical movement, the side plates being located outwardly of the side rails and

extending downwardly far enough to hide the side rails depending studs carried by the platform and slidable in the side rails, and compression springs surrounding the studs and interposed between the side rails and the platform.

2. A bed frame comprising posts having vertical slots, head and foot plates connecting the posts at the ends of the bed frame, side rails connecting the posts, side plates located outwardly of the side rails and having their ends slidable vertically in the slots, the side plates extending downwardly far enough to shield the side rails from view, a platform secured to the side plates, the ends of the side plates being in slidable contact with the head and foot plates, to prevent the side plates from moving endwise, and to prevent the ends of the platform from engaging and marring the inner surfaces of the head and foot plates, depending studs carried by the platform and slidable vertically in the side rails, and com-

pression springs about the studs and engaged between the side rails and the platform.

3. A bed frame comprising head and foot members including posts, side rails connecting the head and foot members, a platform, means for supporting the platform yieldably upon the side rails, and side plates carried by the platform and located outwardly of the side rails, the side plates being wide enough to hide the side rails and being guided for vertical movement in the posts.

4. A bed frame comprising head and foot members, side rails connecting the head and foot members, a platform, means for supporting the platform yieldably upon the bed frame, and side plates carried by the platform and located outwardly of the side rails, the side plates being wide enough to hide the side rails and being guided for vertical movement in the head and foot members.

RANDOLPH BOYD. 20