N. K. BILLOW.

BED SPRING.

APPLICATION FILED JULY 20, 1908.

901,516. **Patented Oct. 20, 1908.**

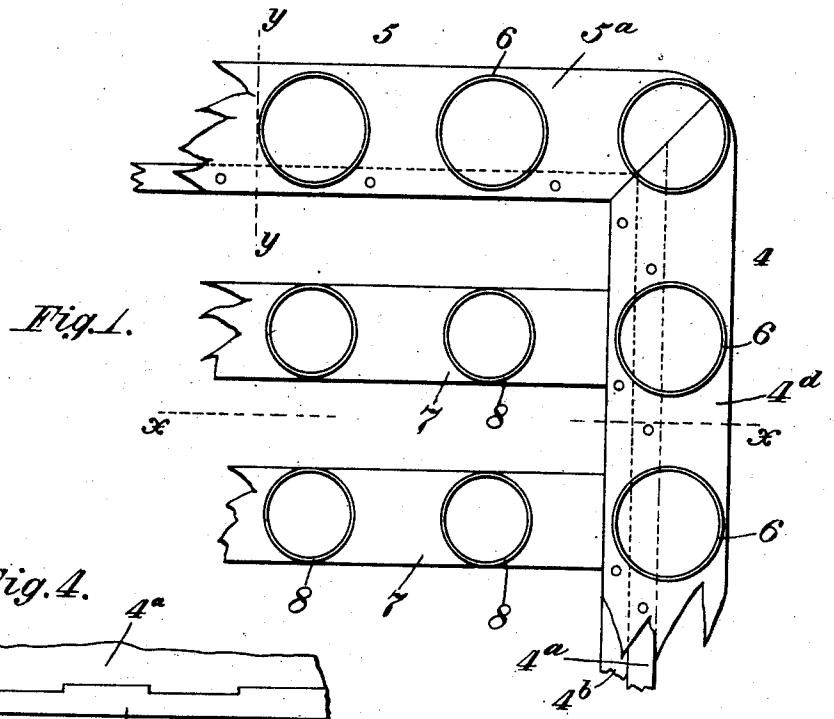


Fig. 1.

Fig. 4.

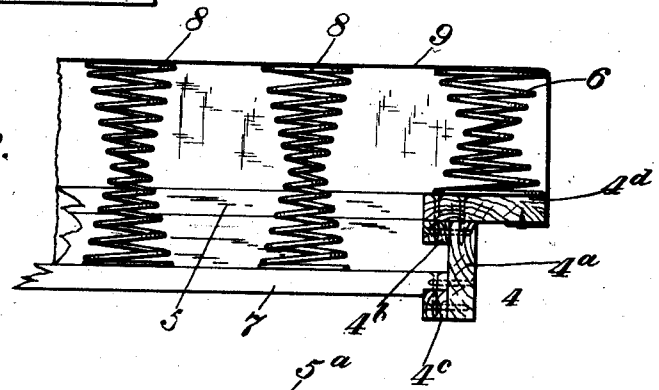


Fig. 2.

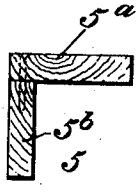


Fig. 3.

Witnesses

Benj. Finckel

Ada G. Gambs

Inventor

Newton K. Billow

by Finckel Finckel

his Attorneys

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

NEWTON K. BILLOW, OF COLUMBUS, OHIO.

BED-SPRING.

No. 901,516. Specification of Letters Patent. Patented Oct. 20, 1908.

Application filed July 20, 1908. Serial No. 444,373.

To all whom it may concern:

Be it known that I, NEWTON K. BILLOW, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Bed-Springs, of which the following is a specification.

The object of this invention is to provide an improved bed spring of simple, strong and cheap construction and of neat appearance.

The invention consists in the construction hereinafter described and claimed.

In the accompanying drawings—Figure 1 is a plan view of one corner of a spring according to my invention with the flexible covering or ticking removed. Fig. 2 is a cross section on the line x—x Fig. 1. Fig. 3 is a cross section on the line y—y Fig. 1. Fig. 4 is a front view of the slat supporting strip.

In the views, 4 designates generally one side of the frame and 5 one of the ends. The sides of the frame are both made in cross section as appears in Fig. 2, except that they stand in reverse positions. They are each constructed of a vertically standing piece 4^a, having nailed to its inner face at its upper and lower edges narrow strips 4^b and 4^c and a horizontally lying piece 4^d nailed both to the vertically standing piece 4^a and strip 4^b.

The horizontally lying piece 4^d projects both inwardly and outwardly beyond the plane of the faces of the piece 4^a, but it projects more extendedly beyond the outer face of the vertically extending piece 4^a, and affords at its upper side a seat for short stiff springs 6. At its under side the horizontally lying piece 4^d rests upon the side rail of the bed. The strip or bead 4^b therefore fits in the corner formed by the horizontally lying piece 4^d, and the vertically standing piece 4^a, and braces the horizontally lying piece and keeps the frame from rupturing by reason of the weight imposed on the structure in use.

7 designates the slats to receive the long very resilient springs 8. The slats are nailed both to the piece 4^a and strips 4^c, as indicated by dotted lines. The strips 4^c have recesses or seats 4^d (see Fig. 4) that prevent lateral displacement of the slats, and serve as guides to properly locate the slats when the structure is manufactured, thus avoiding the loss of time incident to the use of a templet in spacing the slats.

The end pieces 5 are constructed simply of vertical pieces 5^a and horizontal pieces 5^b, as no slats are supported in the ends and as the said horizontal pieces are not subjected to great strain of the kind to which the sides of the frame are subjected.

The covering or ticking 9 is nailed over the top substantially as shown; and the under side can also be covered in a similar way if desired.

This type of bed spring is known in the trade as a box spring. They have been heretofore constructed in a variety of ways, but with this improved construction it will be observed that the frame is made stronger and capable of withstanding all the strains to which it is subjected.

What I claim and desire to secure by Letters Patent is:

1. In a bed spring of the kind described, a frame to support springs having its sides each constructed of a vertically standing piece, a horizontally lying piece secured to the upper edge of the vertically standing piece and projecting both inwardly and outwardly beyond the opposite faces of the vertically standing piece, combined with the upper and lower beading strips secured to the inner face of the vertically standing piece, the upper beading strip lying in the corner formed by the vertically and horizontally standing pieces, and slats supported by the lower of said beading strips, substantially as shown and described.

2. In a bed spring of the kind described, a frame to support springs having its sides each constructed of a vertically standing piece, a horizontally lying piece secured to the upper edge of the vertically standing piece and projecting both inwardly and outwardly beyond the faces of the vertically standing piece, combined with the beading strip 4^b, secured to the inner face of the vertically standing piece, and in the corner formed by the junction of the vertically standing piece with the horizontal piece, said beading strip coöperating with the upper edge of the vertically standing piece to form a support and brace for the horizontally lying piece, and slats supported at the lower edges of the vertically standing pieces, substantially as described.

NEWTON K. BILLOW.

Witnesses:
ADA G. GAMBS,
BENJ. FINCKEL.