

No. 632,520.

Patented Sept. 5, 1899.

B. B. FIXEN.

SPRING BOTTOM FOR BEDS, SOFAS, OR THE LIKE.

(Application filed Aug. 3, 1898.)

(No Model.)

Fig. 1.

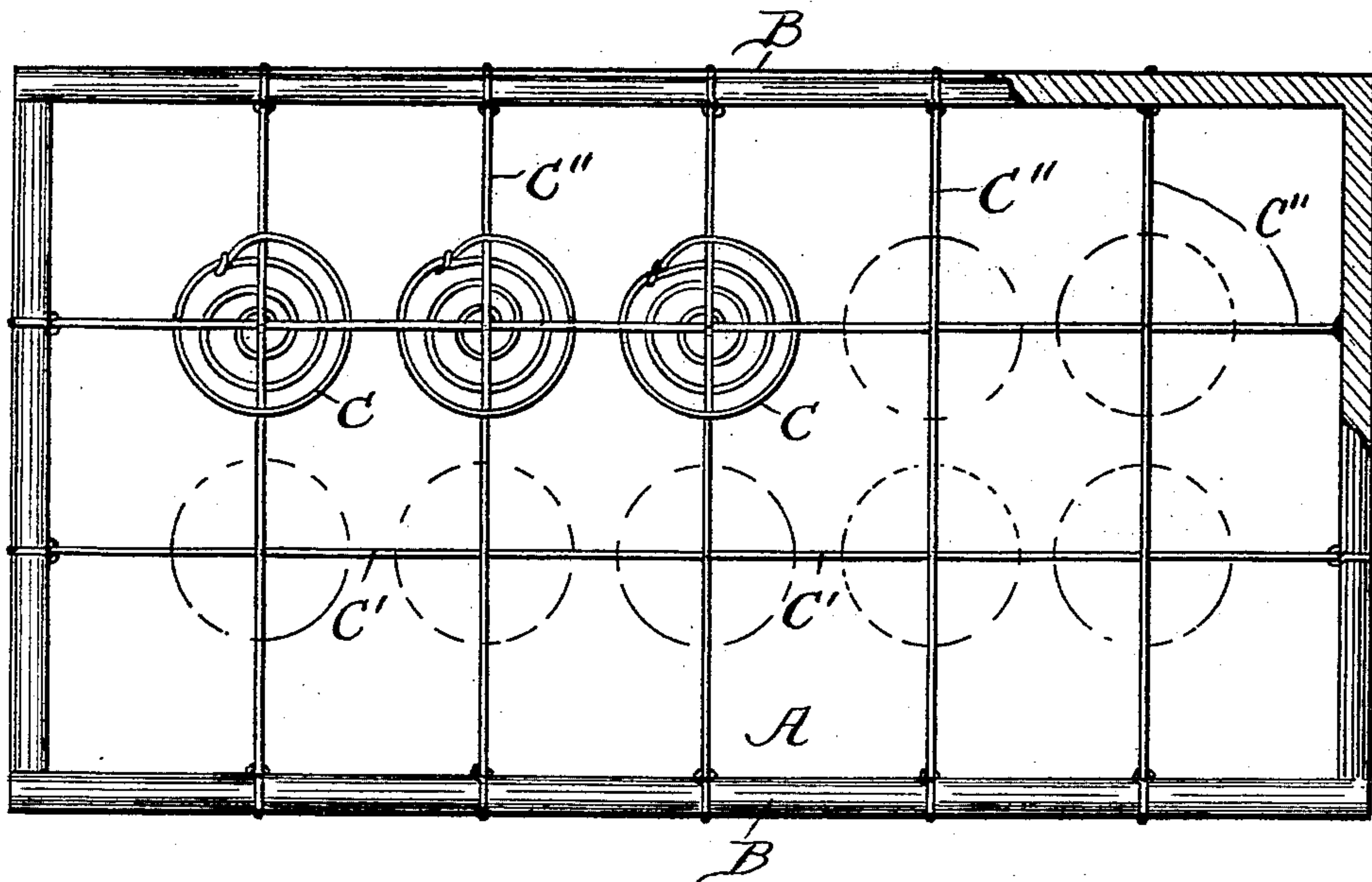


Fig. 2.

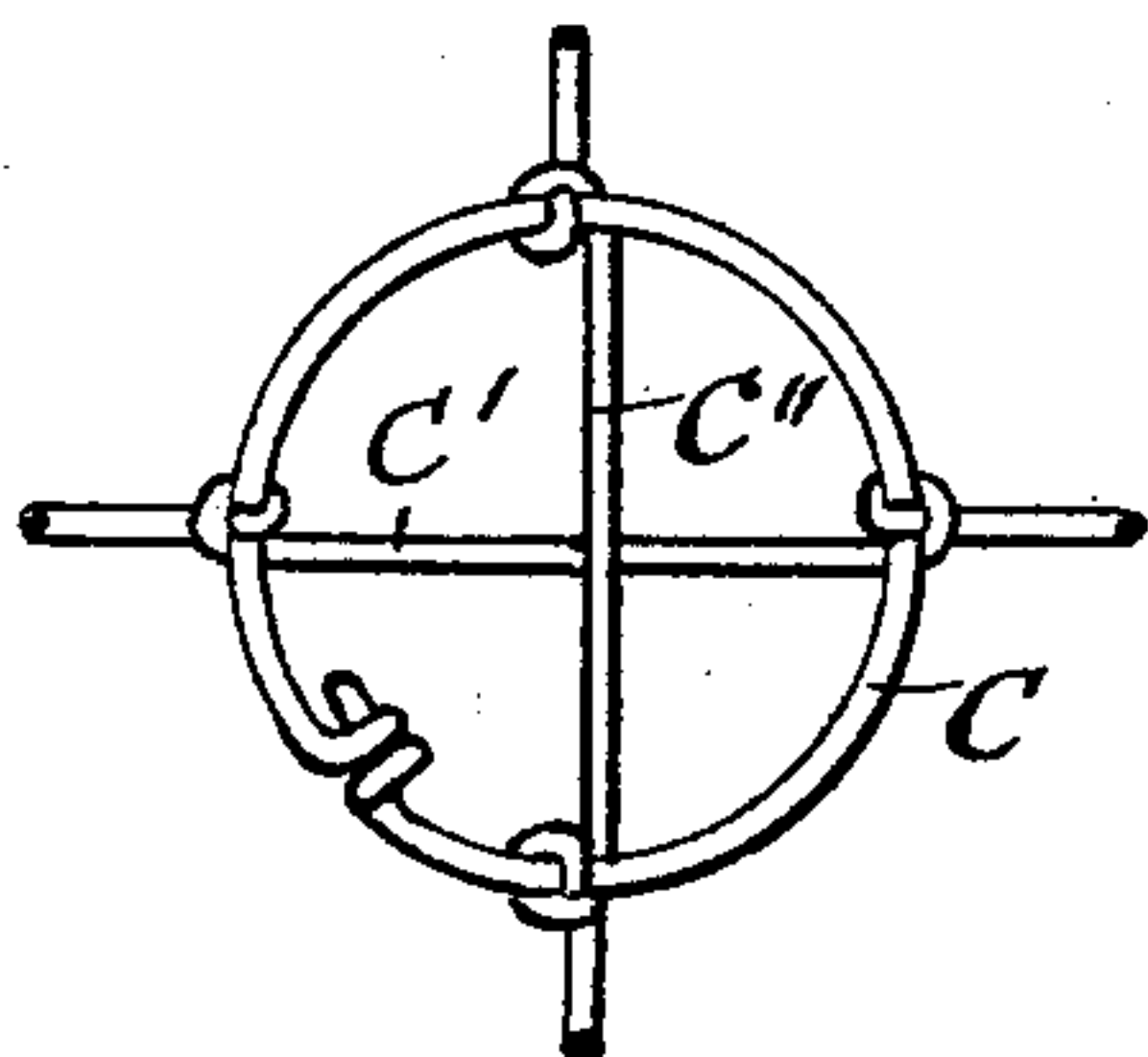
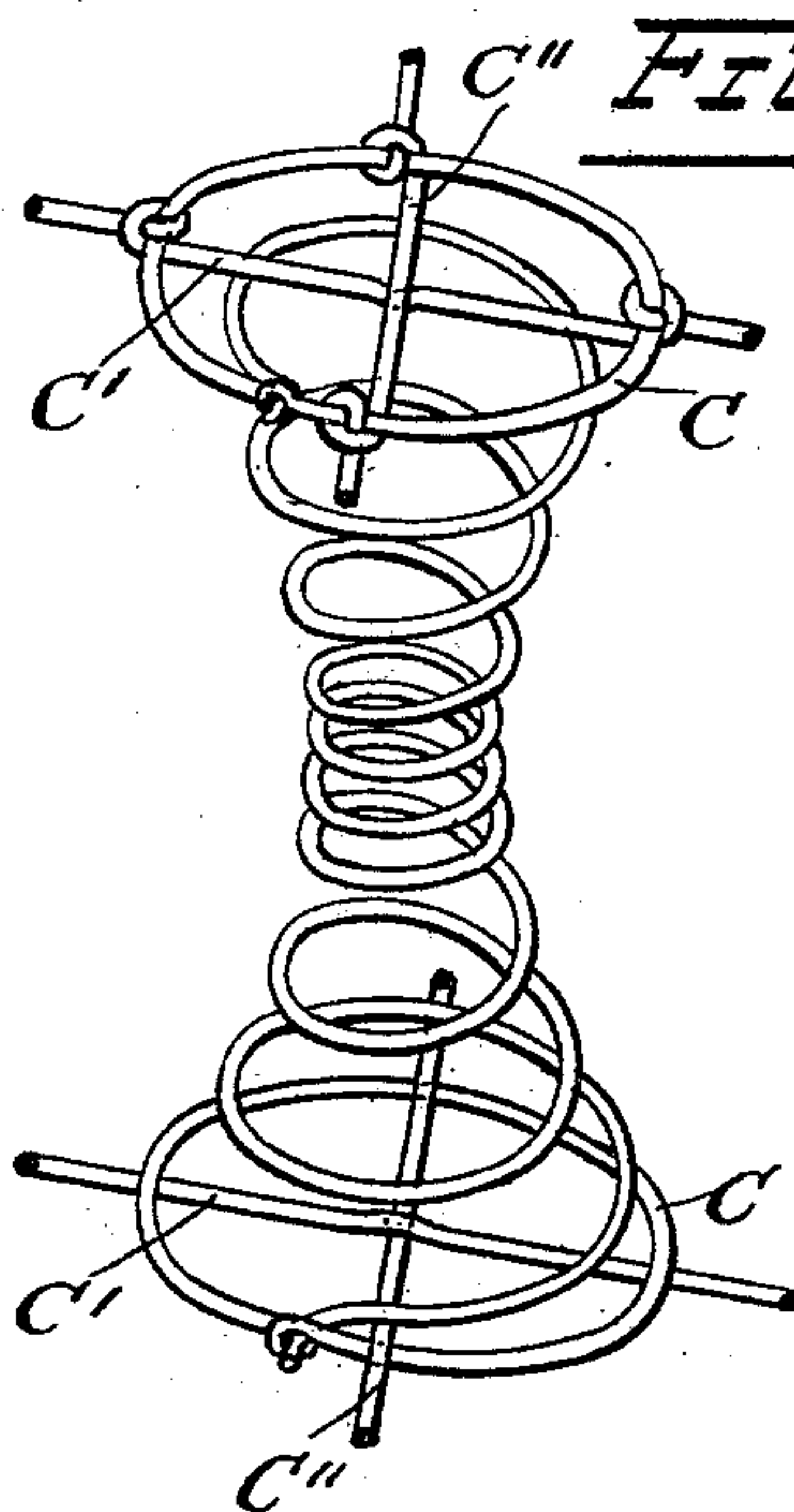


Fig. 3.



Witnesses  
*Albert Hopkins.*  
*Joseph Milans*

Inventor  
*Bright B. Fixen.*  
By *R. S. Bacon*  
Attorney



# UNITED STATES PATENT OFFICE.

BRIGT B. FIXEN, OF EOLA, ILLINOIS.

## SPRING-BOTTOM FOR BEDS, SOFAS, OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 632,520, dated September 5, 1899.

Application filed August 3, 1898. Serial No. 687,661. (No model.)

*To all whom it may concern:*

Be it known that I, BRIGT B. FIXEN, a citizen of the United States, residing at Eola, in the county of Du Page and State of Illinois, have  
5 invented certain new and useful Improvements in Spring-Bottoms for Beds, Sofas, or the Like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others  
10 skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and novel improvements in spring-bottoms for beds, sofas, chairs, and the like, and has for  
15 its object to so construct the same as to make a strong durable piece of furniture and one wherein the springs will have the greatest possible flexibility and still be securely held in their respective predetermined positions.

20 The invention comprises the parts and combination of parts to be hereinafter fully described, and definitely pointed out in the claim.

In the drawings, wherein an embodiment  
25 of the invention is illustrated, like reference-letters refer to corresponding parts in the several views.

Figure 1 is a bottom plan view of a sofa-frame, showing the manner of securing the  
30 bottoms of the springs, the upper right-hand corner of the frame being broken away to show the upper stays. Fig. 2 is a section of the spring construction, looking upon the same from the top; and Fig. 3 is a perspective view of a spring, showing the manner  
35 of attaching the top and bottom stay-rods thereto.

Referring to the drawings, A designates the body of a sofa, comprising, preferably, the  
40 frame of side and end bars B.

C represents the spring-upholstering, secured in this instance for the sake of illustration to the sofa-bottom. This spring-upholstering is of novel construction and may be  
45 described as follows: Running parallel with the side bars of the frame and preferably equidistant apart are strands or wire stays C', rigidly secured at their ends to the end bars of the frame. Corresponding strands or stays C''  
50 extend transversely of the frame and are rigidly secured to the side bars of the same. The manner of securing the stays to the frame is not of the essence of the present invention, and they may be attached in any desirable  
55 manner to give the proper flexibility to the

wires. Indeed it is not intended herein when it is said or claimed that the stays are secured to the frame to be limited to such, as it will be readily understood that such stays may just as properly be held by attachments  
60 on the frame or in any other way found practicable. There are two sets of these stays, the one set arranged in the lower plane of the springs and the other directly above the lower set in the upper plane of the springs.

65 The stays are attached to and hold the springs in the following manner: As best seen in Fig. 1, the bottoms of the springs are secured in place by the interweaving of the bottom coils thereof with the stays. The wires  
70 C'' are arranged to extend over the bottom coils and under the strands C', passing through the centers of the coils, and the strands C' are arranged to extend under the said coils and over the wires C'', passing through the centers thereof. It will thus be seen that the  
75 springs at their lower ends are permitted a slight lateral play, but are effectually held against excessive movement.

It is desirable to hold the tops of the springs  
80 rigidly, and to accomplish this the top coils thereof are secured in a slightly-different manner from the bottom coils just described—i. e., both strands C' and C'' are twisted around the respective top coils of the springs and  
85 cross each other at the centers thereof, as clearly shown in Figs. 2 and 3.

This special form of upholstering has been found to be very strong and attains the best possible results.

90 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with a frame, a bottom comprising springs, an upper and a lower series of  
95 flexible stay-wires properly spaced apart and fastened at their ends to the frame, the upper series crossing and secured to the top coils of the springs at predetermined points and holding them against lateral play, and  
100 the lower series loosely engaging the bottom coils of the springs and permitting lateral play thereof, substantially as described.

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

B. B. FIXEN.

Witnesses:

F. G. VAUGHAN,

A. R. BARTHOLOMEW.