

March 4, 1952

R. C. THOMPSON ET AL

2,588,058

COVER TENSIONING DEVICE FOR SOFA BEDS

Filed Aug. 24, 1949

Fig. 1.

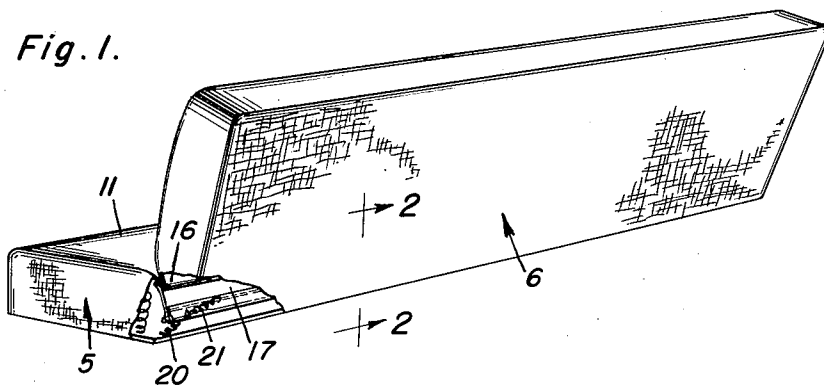


Fig. 4.

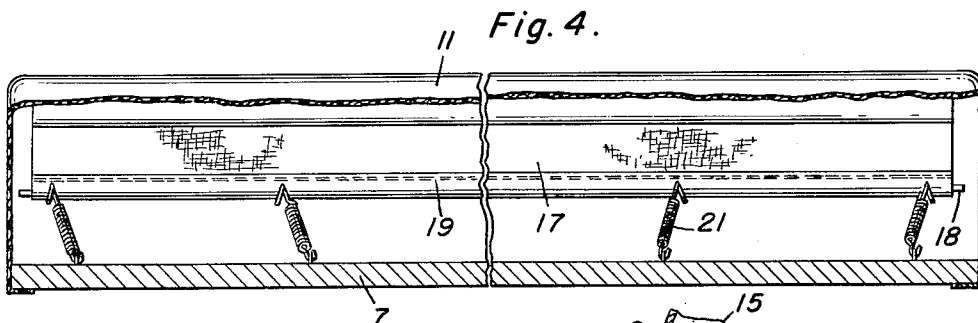


Fig. 2.

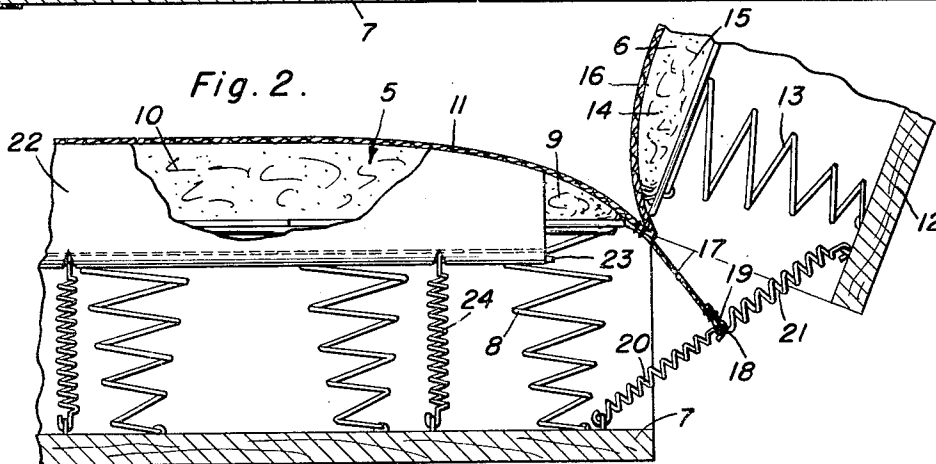
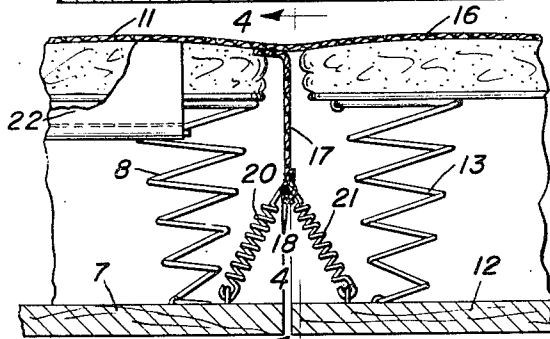


Fig. 3.



Inventors

Robert C. Thompson
Kenneth M. Cayton

By

Clarence A. O'Brien
and Harvey B. Jacobson
Attorneys

UNITED STATES PATENT OFFICE

2,588,058

COVER TENSIONING DEVICE FOR
SOFA BEDSRobert C. Thompson and Kenneth M. Cayton,
Lake Charles, La.

Application August 24, 1949, Serial No. 112,136

2 Claims. (Cl. 155—182)

1

The present invention relates to new and useful improvements in sofa-beds, or similar types of convertible furniture, and more particularly to tensioning means for holding the cushion covers for the seat and back stretched in a smooth condition when the device is converted to either a bed or sofa.

An important object of the invention is to provide tensioning means for the meeting edges of the seat and back cushions as well as for the end edges of the cover for the seat cushion to keep the covers from wrinkling and thus improve the comfort of the sofa-bed.

A still further object is to provide tensioning means for the covers of cushions of this character and which is simple and practical in construction, efficient and reliable in use, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of a seat and back cushion with parts broken away and shown in section;

Figure 2 is an enlarged fragmentary sectional view taken substantially on a line 2—2 of Figure 1 and showing the back raised for use as a sofa;

Figure 3 is a similar view showing the back lowered for use as a bed, and

Figure 4 is a longitudinal sectional view taken on a line 4—4 of Figure 3.

Referring now to the drawing in detail wherein for the purpose of illustration we have disclosed a preferred embodiment of the invention, the numerals 5 and 6 designate generally the seat and back portions respectively of a sofa-bed, the seat including a rigid bottom 7 to which a coil spring unit 8 is suitably attached for supporting a cushion 9 on top of the spring unit and which includes a suitable filler 10 enclosed in a fabric cover 11.

The back 6 also includes a rigid base or bottom 12 to which a coil spring unit 13 is suitably attached for supporting a cushion 14 which also includes a suitable filler 15 and a fabric cover 16 enclosing the filler.

The back is mounted in a conventional manner for raising and lowering to convert the same either into a sofa as shown in Figure 2 of the

2

drawings, or into a bed as shown in Figure 3.

A fabric strip 17 is sewed or otherwise suitably secured at the meeting edges of the covers 11 and 16 for the seat and back and a rod 18 of suitable rigid material is enclosed in a casing 19 sewed at the free edge of strip 17.

Coil springs 20 connect rod 18 at suitable intervals to the bottom or base 7 of seat 5 and coil springs 21 similarly connect the base or bottom 12 of back 6. The coil springs 20 and 21 are held under tension to pull strip 17 downwardly and thus stretch covers 11 and 16 of the seat 5 and back 6.

The ends of seat cushion 9 are also provided with fabric strips 22 secured at one edge to the cover 11 and also provided with a rigid rod 23 at the lower edge of the strip 22 and connected to the bottom 7 of seat 5 by coil springs 24 to exert a downward pulling force of the ends of cover 7.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims. Having described the invention, what is claimed as new is:

1. In a sofa-bed including seat and back members each comprising a cushion structure spring supported on a rigid base and provided with a cover, the back member being swingable into upright and horizontal positions, respectively, with one edge of its cover contiguous with one edge of the cover of said seat member, means for tensioning said covers comprising a flexible strip connected to both of said contiguous edges, and coil springs connected to said strip below said edges and to said bases and extending oppositely from said strip to said bases in either position of said back member.

2. In a sofa-bed including seat and back members each comprising a cushion structure spring supported on a rigid base and provided with a cover, the back member being swingable into upright and horizontal positions, respectively, with one edge of its cover contiguous with one edge of the cover of the seat member, means for tensioning said covers comprising a flexible strip having a longitudinal edge connected to both of

3

said contiguous edges, and a rigid reinforcing member fixed to and extending along the opposite longitudinal edge of said strip, and coil springs connected to said rigid member and to said bases and extending oppositely from said rigid member to said bases in either position of said back member.

ROBERT C. THOMPSON.
KENNETH M. CAYTON.

10

4

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,120,036	Northup -----	June 7, 1938
2,191,848	Cramer et al. -----	Feb. 27, 1940
2,335,036	Young -----	Nov. 23, 1943