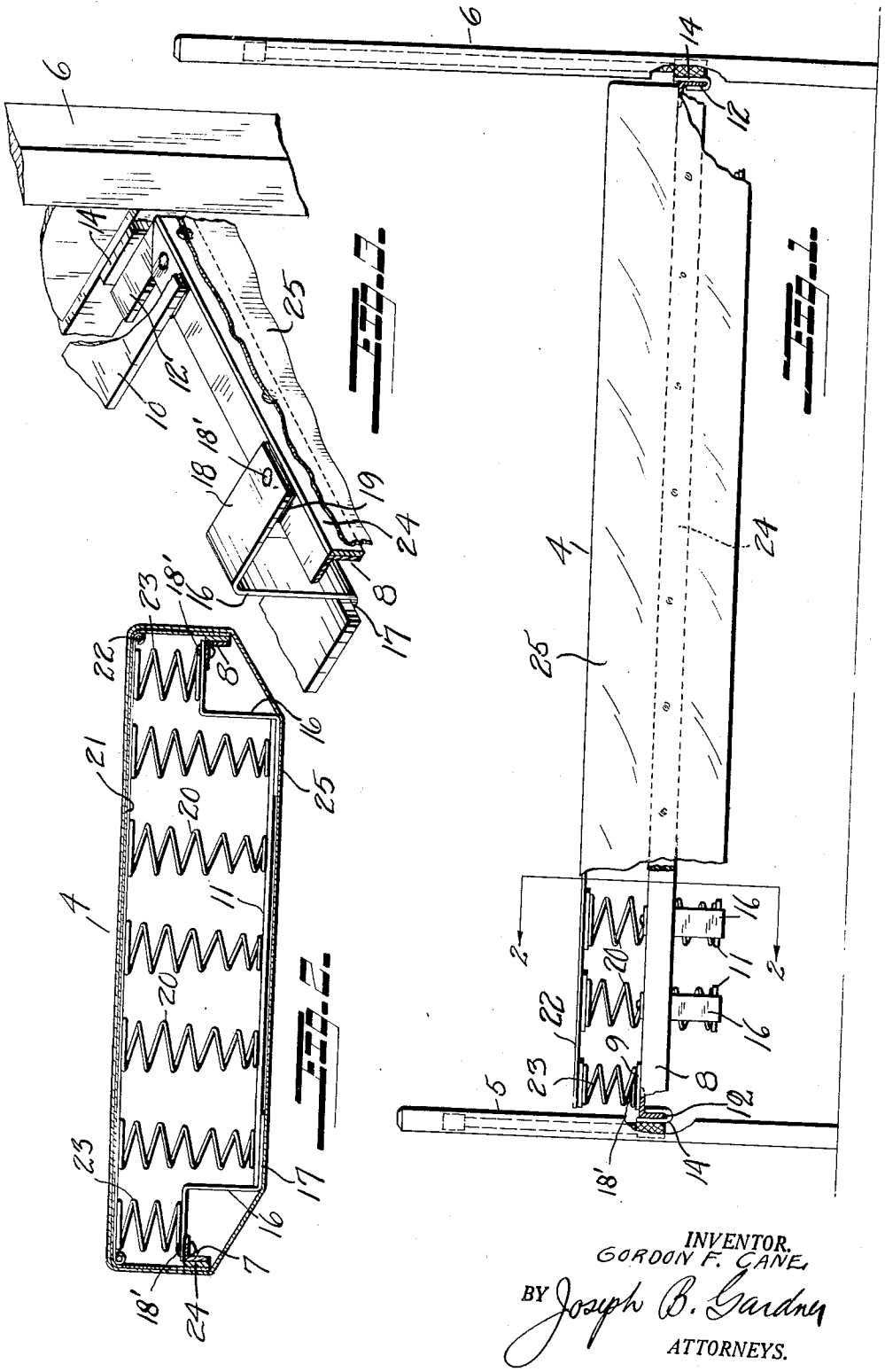
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BEDSPRING

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BEDSPRING

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1 Claim. (Cl. 5—132)

This invention resides in the provision of a bed spring of the box type wherein a spring supporting frame of novel construction serves effectively as the side rails of the bed frame in addition to providing for a simply constructed, comparatively strong and inexpensive box spring which affords maximum comfort and improves the general bed design in a particularly efficient manner.

An object of the invention is to provide a box spring of the character described in which the parts thereof are in the main constructed of metal and arranged in such manner as to secure all of the efficiency, strength and cheapness of metal construction with the advantage of the noiselessness of wooden construction.

Another object is to provide a box spring of the character described in which the novel and efficient construction arrangement of the springs and frame insures maximum comfort, strength, simplicity and inexpensiveness of the construction in general.

A further object is to provide a box spring in which metal parts are combined with wooden parts in such manner as to facilitate the noiseless mounting and a convenient tying and securing of the springs in place while at the same time maintaining the predominance of metal parts and the advantages attendant upon such metal construction.

The invention possesses other objects and features of advantage, some of which, with the foregoing, will be set forth in the following description of the preferred form of the invention which is illustrated in the drawing accompanying and forming part of the specification. It is to be understood, however, that variations in the showing made by the said drawing and description may be adopted within the scope of the invention as set forth in the claim.

Referring to the drawing,

Fig. 1 is a side elevation of a bed provided with the box spring of my invention, being broken away at one end and shown in section.

Figure 2 is a cross sectional view taken on the plane of line 2—2 of Figure 1.

Figure 3 is an enlarged fragmentary perspective view showing the manner of connecting the spring with the head (or foot) of a bed.

In the present embodiment of my invention, as shown in detail in the accompanying drawing, I provide a box spring 4 which serves as the connecting medium between the usual foot and head members 5 and 6 of a bed, said box spring taking the place of the usual bed side rails, whereby the bed is made lighter, simplified as to construction and the cost thereof reduced.

The box spring 4 comprises in the main a rectangular frame consisting of metal (angle iron) side bars 7 and 8 joined by flat wooden end bars 9 and 10 at the ends of the frame and by a plurality of transverse wooden spring supporting bars 11 disposed in equidistantly spaced relation between the ends of the side bars. At their ends the side bars 7 and 8 are bent inward right-angularly to form brackets 12 whereby adequate supporting surfaces are provided for the end bars 9 and 10 and the fastening of the box spring frame to the bed members 5 and 6 is facilitated. In this connection it will be noted that the brackets 12 fit into hook members 14 on bed members 5 and 6 to maintain the bed assembled, it being possible to readily lift the box spring structure out of position when disassembling the bed structure.

The spring supporting bars 11 are shorter than the width of the space between the side bars 7 and 8 but are joined to and supported below the plane of the latter by means of substantially Z shaped metal brackets 16 which have their lower horizontal portions 17 extended under and secured to the ends of the bars 11, and their upper horizontal portions 18 lying upon and secured to such as by means of rivets 18′ the upper sides of the bars 7 and 8. Between the portions 18 and the bars 7 and 8 are pieces 19 of suitable fabric which prevent squeaking at such points.

Springs 20 as here shown of the usual spiral type are secured in upright position on the bars 11 and extend above the side bars 7 and 8 a distance, for example, equal to half their normal length. These springs are tied together in the usual manner which is thought unnecessary to illustrate, and at their upper ends are joined to flexible cross members 21 supported on a rectangular wire frame 22 substantially equal in size to the main spring frame and such as usually employed to comprise the upper portion of box springs. Owing to the position of the Z brackets 16 and end bars 9 and 10, I employ short spiral springs 23 around the margins of the main frame, said springs having their lower ends secured to and resting upon the portions 17 of said brackets and said bars 9 and 10 whereas their upper ends are secured to the wire frame 22.

Screwed or otherwise secured to the outer sides of the side bars 7 and 8 are wooden strips 24 to which are tacked the ends of the flexible spring securing members 21 to said frame, said members being extended over the sides of the wire frame and downwardly to said strips. These

strips also facilitate the securing of suitable ticking 25 which may be arranged to encase the entire box spring structure.

It will be noted that by reason of the Z brackets 16, the side bars 7 and 8 and end bars 9 and 10 may be disposed midway between the upper and lower sides of the box spring unit as a whole and define the margins of said unit in a well-balanced, light but strong frame structure for properly supporting and disposing the springs as well as serve as the connecting medium between the bed ends 5 and 6. The portions 18 of said Z brackets 16 serve to effectively support the springs 23 whereby strong but properly cushioned sides known in the trade as "clipper" edges are provided. The bars 9 and 10 supporting the springs at the ends of the structure likewise define these clipper edges.

I claim:

In a bed spring arranged to join the head and foot members of a bed wherein each of said members is provided adjacent each of its side edges with a U shaped bracket, a pair of angle iron side rails each provided with a substantially right angular extension at its ends disposed for engagement with said brackets, spring supporting members disposed below the plane of said side rails in spaced relation to one another longitudinally of said rails, Z shaped brackets secured to and having a portion thereof substantially coplanar with said side rails and extending therebelow and having a second portion extending substantially parallel to said first portion and secured to the ends of said spring supporting members, pieces of fabric between said side rails and said first named bracket portions, springs mounted on said last named members and extended above said side rails, other springs mounted on said first named bracket portions and extended into coplanar relation with the tops of said first springs, and a flexible covering fastened to said side rails and extending around said springs and supporting structure therefor and up to said end extensions on said side rails, said extensions being disposed without said covering for engagement with said bed members aforesaid.

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