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B. LOWY

PROTECTING DEVICE FOR SPRINGS

Filed May 14, 1925

Fig. 1.

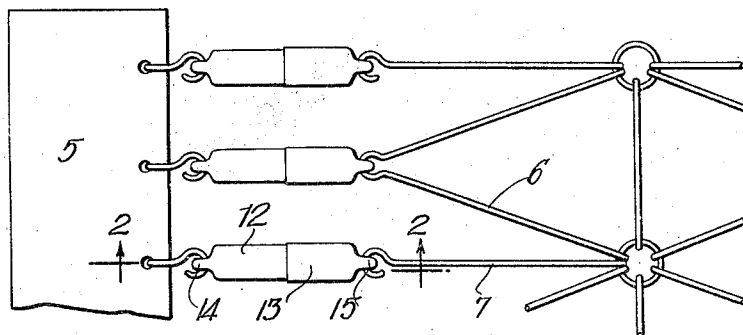


Fig. 2.

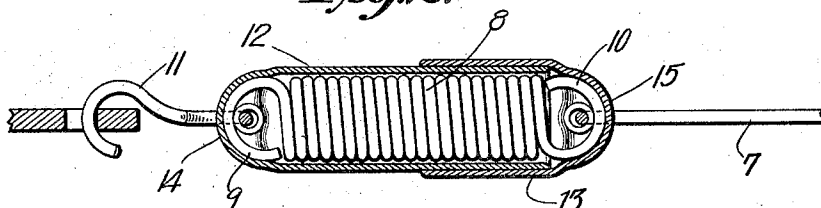


Fig. 3.

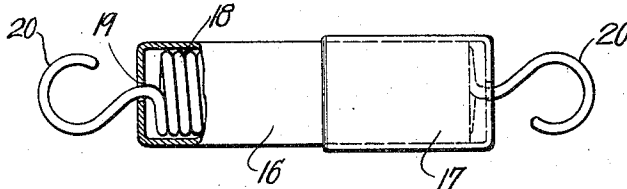
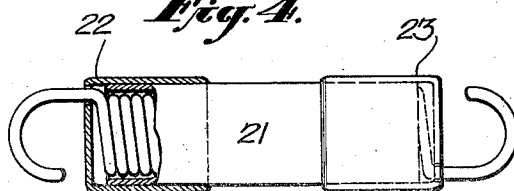


Fig. 4.



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PROTECTING DEVICE FOR SPRINGS.

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This invention relates to protecting devices for spring and more particularly to a novel and improved closure or casing for a coiled or helical spring to prevent the admission and adherence of dust or dirt to the exterior or interior surface of the spring.

The primary object of my invention is to provide a casing or closure shaped to conform with a spring, constructed and arranged so as to prevent the admission of dust or dirt thereto yet permit of the expansion and contraction of the spring when so encased.

Another object of my invention is to provide a casing or closure for a coiled or helical spring consisting of two or more sections movable relatively to each other when the spring is contracted or expanded without exerting any pressure or strain on the closure or protecting device.

A continued object of my invention is to provide a dust preventative device for coiled springs being particularly designed for coiled springs used in connection with bed springs so that a sanitary construction may be produced.

In order to more fully understand and appreciate my invention, reference is had to the accompanying drawings, showing one of its many applications to springs in general and particularly bed springs.

Figure 1 is an enlarged, fragmentary view showing the protecting devices.

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

Figure 3 is a modified form of the invention, one end being shown partly in section.

Figure 4 is a further modified form, one end thereof being shown partly in section.

Referring now to the drawings, wherein like reference characters designate corresponding parts throughout the several views, 5 designates the end frame of a bed spring and 6, 7, the open links and hooked links, usually connected to the ends 5 of the frame by coiled spring 8 as clearly shown by Figure 2 of the drawings. The ends 9, 10, of the coiled spring 8 are usually extended to receive the hooks 11, whereby they may be attached to the frame 5 as well as to the links 6, 7, above referred to. Under ordinary conditions dust and dirt from the room accumulate on the interior and exterior surface of the springs 8 and it is

very difficult to keep the interior of the springs free from dust and dirt unless a special spring cleaning element is used, which can enter the surfaces of the spring proper. By reason of the great number of coiled springs that enter in the production of a standard bed spring, it will be readily recognized that the cleaning of the coils is usually a very tedious one.

In order to overcome the above difficulty, a protective device in the form of a closure or casing, which, as clearly shown by Figure 2, showing the preferred embodiment of my invention, is provided and consists of a sectional shell, shaped to conform with the coiled spring 8, above referred to. The sections 12, 13, interfit so as to be slidable relatively to each other. One end of each of the sections 12, 13, is open and the opposite ends 14, 15, of the respective sections are closed and extended so as to engage and grip the ends 9, 10, of the coiled spring 8, which is encased. The ends 14, 15, of the respective sections of the casing or closure are provided with apertures for the passage of the hooks and the hooks or loops of the links 6, 7, of the spring proper. In this manner it will be seen that regardless of the stress and strain exerted on the coiled springs 8, the protective casing or closure will remain intact relatively to each other and thus no pressure would be directly exerted on the respective sections 12, 13, tending to separate them from the coiled spring. The coiled spring, therefore, is entirely encased, prevents the admission of dust or dirt thereto, and produces a more sanitary bed spring when the protective casing is so utilized.

In Figure 3, I have also shown a protective casing consisting of the interfitting or telescopic sections 16, 17, for enclosing a coiled spring 18. An aperture 19 is formed at each end of the sections 16, 17, whereby the ends of the wire of the spring 18 may be passed and bent in the form of a hook 20 so as to be fastened to the frame and to the links of the bed spring.

In Figure 4, the second modification of my invention consists of a central sleeve 21 having end caps or heads 22, 23, which are slidable relative to the sleeve 21, said caps being also provided with apertures for the passage of the ends of the wire constituting the coiled spring so that the said ends of

the wire may be bent in the form of a hook and attached to the said bed spring frame and the links.

While I have shown my invention as applied to and used in connection with a coiled spring for a bed spring, it will be readily recognized that the invention is equally applicable in other instances where it is desired to protect a spring from dust and dirt accumulations. In actual practice, the protective casing may be constructed of different kinds of material and I do not wish to be limited or restricted to the shape of the protective casing or the material from which it is made, since this may be obviously modified as manufacturing necessities may require.

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

1. A protective device for springs comprising a casing having two telescopic sections, each of said sections being open at its inner end and closed at its outer end, the outer ends being extended and having an aperture therethrough and fastening means

passing through said apertures whereby the ends of the encased spring may be attached.

2. A protective device for springs comprising a casing having two telescopic sections, relatively movable, each of said sections being open at its inner end and closed at its outer end, the outer ends being extended and flattened to receive the ends of the encased spring, said outer ends having apertures therethrough and hooks connected to said apertures whereby the encased spring may be attached.

3. A device of the class described comprising a casing having two telescopic sections, each of said sections being open at its inner end and closed at its outer end, a coiled spring within said sections, the ends of said spring engaging the closed ends of said telescopic sections and hooks connecting the ends of the coiled spring whereby the telescopic sections may be moved relatively to each other upon expansion and contraction of said spring.

In testimony whereof I affix my signature.

BESSIE LOWY.