

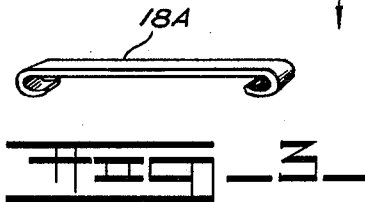
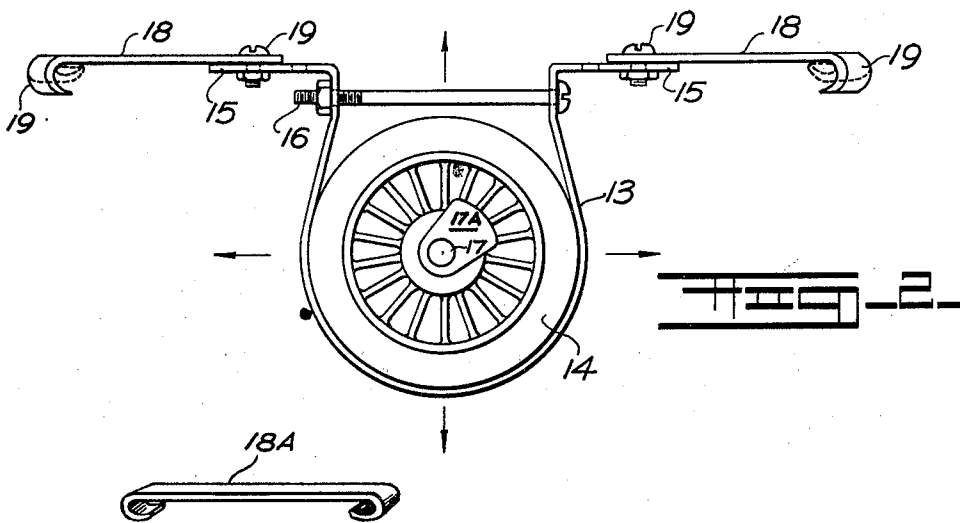
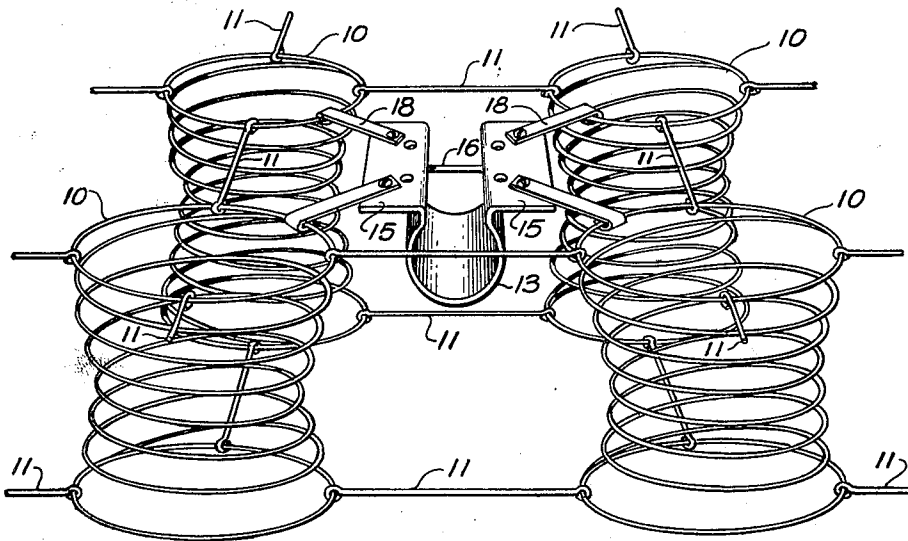
July 13, 1965

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3,194,522

DEVICE FOR MOUNTING A VIBRATOR ON BEDSPRINGS

Filed June 11, 1963



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3,194,522 DEVICE FOR MOUNTING A VIBRATOR ON BEDSPRINGS

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Filed June 11, 1963, Ser. No. 237,021
1 Claim. (Cl. 248—18)

This invention relates to a vibrator mounting and more particularly to a device which will mount a vibrator on the springs of a bed.

The principal object of the invention is the provision of a vibrator mounting device that is adaptable to various types of springs so that it can be installed on bedsprings and the like without damaging the same.

A further object of the invention is the provision of a vibrator mounting device that mounts the vibrator motor so that the eccentric weight thereof revolves in a vertical plane comparable with the axis of the coil springs to which the device is attached.

A still further object of the invention is the provision of a simple and inexpensive vibrator mounting device which may be easily installed in various types of bedsprings including box springs and in upholstered furniture, such as chairs, chaise lounges and similar articles.

The vibrator mounting device disclosed herein comprises a member that will receive and securely hold a vibrator motor so as to adequately support the same and so that the vibrations originating in the vibrator motor are conveyed to the device. The device is adjustable so that various sizes and shapes of vibrator motor devices may be mounted therein and the device includes adjustable means by which it is attached to bedsprings so as to be secured in tensioned relation thereto. The device acts to thus hold the actual vibrator motor and position it in desired relation to the bedsprings so that the vibratory motion of the vibrator motor is conveyed to the bedsprings.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being the intention to cover all changes and modifications of the example of the invention herein chosen for purposes of the disclosure, which do not constitute departures from the spirit and scope of the invention.

The invention is illustrated in the accompanying drawing, wherein:

FIGURE 1 is a perspective view of a portion of a bedsprings showing the vibrator motor mounting device installed therein.

FIGURE 2 is an enlarged end elevation of the vibrator motor mounting showing a vibrator installed therein.

FIGURE 3 is a perspective view of a modified support arm used in connection with the device seen in FIGURE 1.

By referring to the drawings and FIGURE 1 in particular, it will be seen that a portion of a bedsprings has been disclosed which includes a plurality of vertically positioned coils 10, 10 which are secured in spaced relation to one another by a plurality of interconnecting links 11, 11 which are conventional and which have eyeleted ends engaged about the upper and lowermost convolutions of each of the coil springs 10, 10. The coil springs illustrated are conventional in the art and will be recognized by those skilled in the bedding industry as typical of coil springs as used beneath mattresses whether or not they are incorporated in box springs. The coil springs 10, 10 and their links 11, 11 are continuously mounted between a pair of rectangular frames (not shown) which are themselves positioned in vertically spaced relation and which

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define the edge of the bedsprings or box springs as the case may be.

In order that desirable vibratory motion, and particularly vibratory motion wherein the general plane of vibration is vertical, may be imparted to the bedsprings or box springs or other article of furniture, a vibrator motor mounting member comprising an elongated cross sectionally U-shaped body member 13 is arranged to receive and securely hold a vibrator motor such as shown in FIGURE 2 and indicated generally by the numeral 14. The cross sectionally U-shaped body member 13 has oppositely disposed outwardly extending flanges 15, 15 which are apertured to receive fasteners and the upper portions of the cross sectional U-shaped elongated body member 13 are apertured to receive at least one tensioning bolt and nut assembly 16.

As best illustrated in FIGURE 2 of the drawings, the vibrator 14 having its eccentric 17A on its drive shaft 17 is securely positioned in the cross sectionally U-shaped body member 13 by the clamping action of the bolt and nut assembly 16 and it will be obvious that various shapes and sizes of vibrator motors may be conveniently mounted in the device. As clearly shown in FIG. 2 the assembly 16 causes the member 13 to engage vibrator 14 in an arc greater than 180°. A plurality of radially positioned support arms 18, 18 apertured at their inner ends and having their outer ends 19 bent backward upon themselves to form hook-like formations are adjustably secured to the apertured flanges 15 of the device as by fasteners 19 which comprise bolt and nut assemblies. Alternately, both ends of the support arms 18, 18 may be provided with hook formations and the inner ends of the support arms hook in appropriate apertures in the flanges 15 of the device. A support arm 18A formed in accordance with such modification is illustrated in FIGURE 3 of the drawings.

It will thus be seen that the actual vibrator mounting device comprises a very simple and inexpensive arrangement of easily formed parts. In mounting the device in the bedsprings as seen in FIGURE 1 of the drawings, the outer intumed ends 19 of the support arms 18 are simply hooked over the oppositely disposed portions of the uppermost convolutions of the coil springs 10, 10, it being observed that these springs 10 may be moved toward one another in their assembly sufficiently to enable such an installation to be easily made. The inner ends of the support arms 18 having previously been secured to the flanges 15 so that the span of the device is substantially the same as the spacing between the springs, it will thus be seen that the device is therefore capable of being positioned in bedsprings and box springs and the like wherein the coil springs are spaced at varying distances relative to one another.

In operation, an electric cord (not shown) energizes the vibrator motor 14 to revolve the shaft 17 and move the eccentric weight 17A which is attached to the shaft 17. The resulting eccentric action is imparted through the shaft to the vibrator motor 14 and since the same is tightly held in the cross sectional U-shaped body member 13 the vibratory action is imparted thereto and to the flanges 15 which in turn are tightly secured to the support arms 18 which are again tensioned relative to their attachment to the uppermost convolutions of the coil springs 10. Thus, the vibratory action is delivered uniformly to the four coil springs 10 of the bedsprings or box springs or to the article of furniture to which the device is attached.

It will thus be seen that the vibrator motor mounting device disclosed herein meets the several objects of the

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invention, and having thus described my invention, what I claim is:

A vibrator motor mounting assembly for use with vibrator motors having cylindrical casings comprising an elongate cross-sectionally U-shaped body member of a length sufficient to engage a major portion of the casings held thereby having a bottom portion and two upstanding side portions, outturned flanges positioned in the same plane and connected to said side portions at the ends thereof remote from said bottom portion, at least one tensioning fastener connected to said two side portions adjacent said outturned flange which, when normally fastened, will cause said body member to engage over an arc of the casing greater than 180°, at least one support arm secured to each flange, said support arms lying in the same plane as said flanges and each having a portion of

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one of their ends in face to face contact with a face of the flange on which they are mounted and being rigidly connected thereto, the other ends of said arms having hook-like formations, said arms and flange providing a broad surface area through which vibrations may be perpendicularly transmitted.

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