Feb. 20, 1934. C. S. THOMPSON 1,948,193

RESILIENT MOUNTING FOR SEWING MACHINES OR THE LIKE

Filed March 4, 1932

FIG. 1.

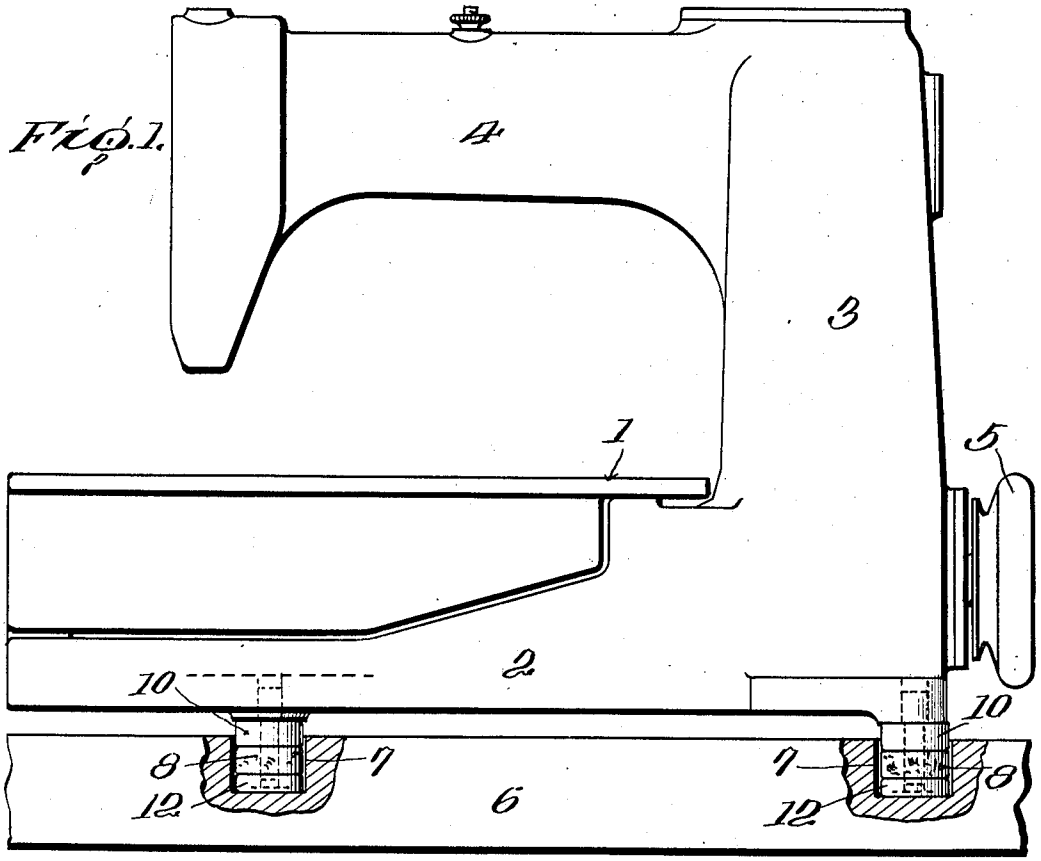


FIG. 3.

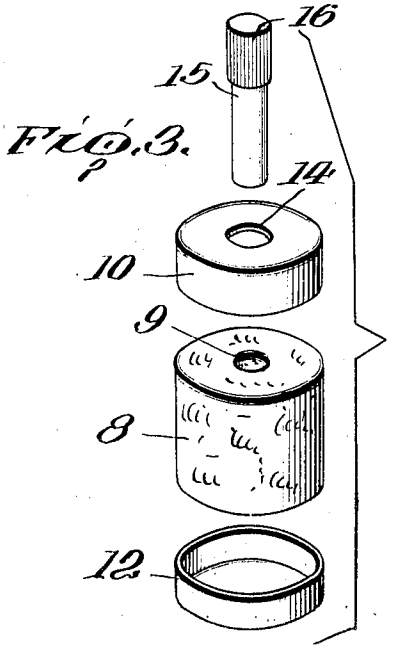
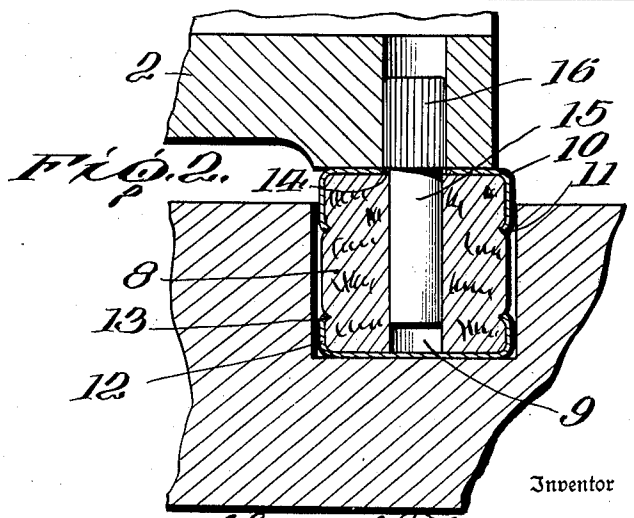


FIG. 2.



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RESILIENT MOUNTING FOR SEWING MACHINES OR THE LIKE

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1 Claim. (Cl. 248—16)

The invention relates to new and useful improvements in a resilient mounting for a sewing machine or the like.

An object of the invention is to provide resilient devices on which the sewing machine bed is supported, which devices may be carried directly by the table and are so disposed as to retain the sewing machine in a fixed position relative to the table without communicating the vibrations of the sewing machine to the table.

A further object of the invention is to provide a resilient mounting of the above type for a sewing machine bed, wherein each resilient device includes a yielding member in the form of a sleeve adapted to receive snugly fitting pins fixed to the bed of the machine.

A still further object of the invention is to provide a resilient mounting for a sewing machine bed of the above type wherein each yielding device includes a yielding member confined in the region adjacent its ends by non-yielding members having a loose fit in the receiving socket formed in the table.

These and other objects will in part be obvious and will in part be hereinafter more fully disclosed. In the drawing which shows by way of illustration one embodiment of the invention—

Figure 1 is a view showing partly in section and partly in side elevation, and more or less diagrammatically, a sewing machine and the resilient mounting therefor embodying the present invention;

Fig. 2 is an enlarged sectional view through a portion of the sewing machine bed, one of the yielding mountings, and the section of the table on which it is supported, and

Fig. 3 is a perspective view showing one of the yielding unit mountings with the parts separated for the sake of clearness, and also showing the retaining pin removed from the bed, which cooperates with said unit mounting.

The invention is directed to a resilient mounting which is preferably used in connection with a sewing machine. The table on which the sewing machine is to be mounted is provided with a series of sockets, preferably four in number, and in each socket is a yielding unit mounting which supports the sewing machine. Each yielding unit of the resilient mounting includes a sleeve or cylinder of yielding material, such as cork. Surrounding the upper and lower ends of the cylinder are caps with openings therethrough to receive a pin fixed to the bed of the machine. This pin fits snugly in the opening of the yielding sleeve. The caps are of metal and are spun firmly on to the sleeve so as to confine the ends thereof and restrain said end portions from yielding laterally. These ends caps are spaced from each other. The yielding mounting is placed in the socket and the metal caps have a free sliding fit in the sockets.

Referring more in detail to the drawing, the invention is shown as applied to the mounting of a sewing machine which is indicated at 1. Said sewing machine is provided with the usual bed 2 carrying a standard 3 and an overhanging arm 4. The operating parts of the sewing machine are actuated from a driving belt wheel 5. The sewing machine has not been illustrated in detail, but merely diagrammatically, so as to more clearly indicate the manner of resiliently supporting the sewing machine. The sewing machine is carried by a table 6. This table is provided with sockets, two of which are indicated in the drawing at 7, 7. Preferably there are four sockets in the table properly positioned so as to carry the weight of the sewing machine in stable equilibrium on yielding members placed in said socket.

The yielding supporting members are all similar in construction and consist of a sleeve cylinder 8 having an opening 9 therethrough. This cylinder is preferably made of cork, although it may be made of other yielding substances, if desired. Cork is preferable as it has a sufficient amount of yield without changing materially the lateral dimensions of the yielding member. A metal cap 10 is placed on this cylinder 8. The cap is preferably spun on to the cylinder, and the lower edge thereof embedded in the wall of the cylinder as indicated at 11 in Fig. 2. This firmly attaches the cap to the cylinder and restrains the cylinder from laterally yielding in the region of the cap. There is a cap 12 at the lower end of the cylinder similar to the cap 10 and which is likewise spun on to the cork cylinder and is embedded in the wall thereof as indicated at 13. The upper cap 10 is provided with an opening 14 which is in alinement with the opening 9 through the center of the sleeve cylinder. A pin 15 having a knurled or ribbed portion 16 is forced into an opening in the bed of the machine so that said pin is fixed rigidly to the bed. This pin 15 fits snugly in the opening 9 in the cork cylinder, so that there is no movement of the cork cylinder laterally of the pin, and no movement of the pin laterally of the bed. The cork cylinder and the caps are so dimensioned that the completely assembled unit slides freely into the socket. Preferably the lower cap mem-

ber 12 is of slightly less outer diameter than the cap member 10, so as to take care of any irregularities in the shaping of the lower part of the socket. These sockets are formed preferably by boring or drilling a recess in the upper face of the supporting table 6. The bottom wall of the recess serves as a support for the yielding mounting. The cap 12 engages the bottom wall of the recess and is sufficiently free from the side walls so as to slide freely into the recess. The cap 10 is sufficiently free from contact with the side walls of the recess or socket so that the vibrations incident to the running of the machine will not be communicated to the table.

The cylindrical member 8 will yield vertically without undue lateral extension so that the yielding support is substantially free of the side walls of the socket. There is no lateral yielding of the cork cylinder within the caps 10 and 12. This cork cylinder is free, as noted, to yield vertically, and therefore, the machine will be resiliently supported on the yielding mountings, and no vibrations of the machine will be comunicated to the table so as to cause the table to act as a sounding board and thus make an objectionable noise.

It is obvious that the resilient mouting is very simple in construction and consists of few parts so that it can be very cheaply made. No supporting bracket is necessary as sockets of proper depth can readily be made in the table to receive the resilient mountings. It is obvious that minor changes in the details of construction and the shaping of the parts may be made without departing from the spirit of the invention as set forth in the appended claim.

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

A resilient mounting for sewing machines or the like comprising a support having spaced sockets, a resilient supporting device in each socket including a cylindrical member of yielding material, said member being of substantially uniform diameter and having an opening centrally therethrough, a metal cap contacting with the upper end of said yielding member and having a cylindrical depending flange contacting with the cylindrical outer surface of the resilient supporting device and having an opening therethrough in alinement with the opening in the resilient member, a metal cap contacting with the lower end of said yielding member and having an upstanding cylindrical flange contacting with the outer face of said cylindrical member, said flanges being spaced from each other, said resilient device being so dimensioned as to fit in its respective socket with sufficient clearance to prevent lateral vibrations of the resilient device being transferred to the support, and a pin rigidly fixed to the sewing machine bed and snugly fitting the opening in said yelding member.

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