Feb. 18, 1941. R. HEWETSON 2,232,456

MOUNTING FOR THE MOTOR-COMPRESSOR UNITS OF REFRIGERATORS

Filed Aug. 5, 1939

FIG. 1.

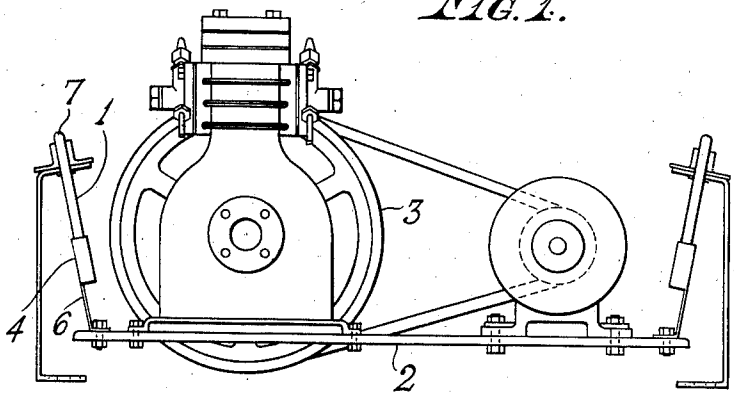


FIG. 2.

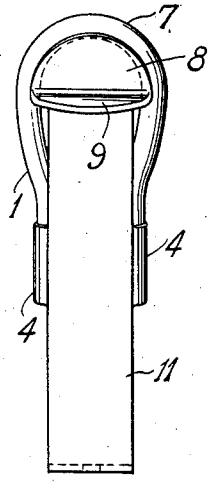


FIG. 3.

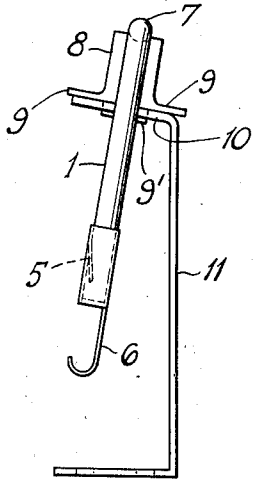
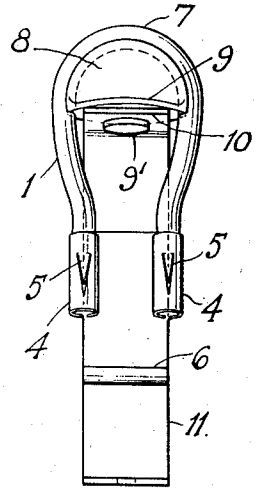


FIG. 4.



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MOUNTING FOR THE MOTOR-COMPRESSOR UNITS OF REFRIGERATORS

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In Great Britain February 16, 1939

5 Claims. (Cl. 248—18)

This invention for improvements in mountings for the motor-compressor units of refrigerators and like mechanisms has for its object to provide a resilient mounting which will effectively prevent the vibrations of the motor-compressor unit from being transmitted to other parts of the machine, and consists in freely suspending the platform, which supports the motor-compressor unit, from upstanding metal brackets by means of elastic suspenders looped over or otherwise attached to blocks or insulators on the brackets and secured at their lower ends to the platform.

In order that the invention may be clearly understood and readily carried into effect, the same will now be described in detail with reference to the accompanying drawing wherein:

Figure 1 is a front elevation of a resiliently mounted motor-compressor unit, showing two of the resilient mountings,

Figure 2 is an elevation on a larger scale showing an elastic suspender in position on a bracket,

Figure 3 is a side elevation in accordance with Figure 2, and

Figure 4 is an elevation also in accordance with Figure 2 and taken from the opposite side.

Referring now to the drawing, looped cords of braided elastic 1 are secured by their ends one to each corner of the platform 2 of the motor-compressor unit 3 by means of metal terminal pieces 4 which are attached to the ends of the cords 1 by means of tongues 5, formed by indenting a small section of the metal terminal in such a manner that it enters the elastic against the direction of the pull thereon. The foregoing method of attachment avoids any damage to the cords which may result if the terminals are clamped tightly thereon.

The metal terminal pieces 4 are formed from flat metal strip and are provided with extensions 6 which may be in the form of hooks as shown in Figure 3 for hooking underneath the turned down edges of the platform 2 or alternately they may be formed with flat turned over ends for attachment such as by screws, to the upper face of the platform 2 as shown in Figure 1. The said members may also be of any other convenient shape for attachment to the platform 2.

The loops 7 of the cords 1 are passed over grooved blocks 8, preferably of moulded rubber, each of which is provided with flanges 9, below which are short shank portions 9^1 and is mounted by means of said shank portions in the upper inturned inclined and apertured end 10 of an upstanding steel bracket 11 fixed on the bottom of the refrigerator casing not shown the said flanges resting on the inturned end of the bracket. As will be seen the cords 1 converge inwardly from their points of suspension down to their points of attachment to the corners of the platform 2.

By the arrangement above described the platform with its superposed compressor unit can float freely in its elastic mounting which however, will effectively prevent any vibration from being communicated through the mounting to other parts of the machine and will thus ensure or promote a smooth and silent working.

I claim:

1. A vibration absorbing mounting for a platform supported unit of the character described, comprising upstanding metal brackets formed with inclined and apertured ends turned inwardly toward the platform interposed therebetween, grooved insulators mounted on said inturned ends, said insulators each being formed with a shank engaging in the apertured end of a bracket, elastic suspenders looped over said insulators and positioned by the groove therein, metal terminal pieces formed from flat metal strips secured at the ends of said suspenders, and extensions provided on said terminal pieces for attachment to the said unit supporting platform.

2. A vibration absorbing mounting for a platform supported unit of the character described, comprising upstanding metal brackets between which the platform is disposed, inclined blocks mounted on said brackets, elastic suspenders looped over said blocks, metal terminal pieces formed from flat metal strip and secured to the ends of said suspenders by means of indented tongues, and extension members provided on said terminal pieces for attachment to the unit supporting platform.

3. A vibration absorbing mounting for a platform supported unit of the character described, comprising upstanding brackets between which the platform is disposed, each of said brackets having an upwardly and inwardly inclined apertured upper end, a block of resilient material supported upon the inclined end of each bracket and having a shank engaging in the aperture of such end, an elastic suspension cord looped over each of said blocks and having downwardly extending ends, a terminal plate secured to and coupling together the said ends of each cord, and means integral with each terminal plate for connecting the same with the platform.

4. A vibration absorbing mounting for a platform supported unit of the character described,

comprising upstanding metal brackets between which the platform is disposed, a resilient body of material secured in inclined position to the upper end of each bracket and having a grooved arcuate top surface, an elastic suspension cord looped over each resilient block and lying in the groove thereof, a plate coupling together the ends of each suspension cord, and a member extending downwardly from each plate and adapted to be attached to the platform, the inclination of the said elastic blocks and the disposition of the grooves therein being such as to maintain the looped elastic cords and plates attached thereto in a plane extending downwardly and inwardly toward the platform from the upper end of the block supporting bracket.

5. A vibration absorbing mounting for a platform supported unit of the character described, comprising upstanding metal brackets between which the platform is disposed and each having an inwardly and upwardly extending upper end portion, an elastic block secured to and supported upon the upper end portion of each bracket and having a groove extending across the top thereof transversely of the supporting end of the bracket, an elongated elastic suspender member looped across each elastic block and lying in the groove thereof and having downwardly extending end portions, a terminal plate extending between the end portions of each suspender and having sleeves each receiving an end of the suspender, and a downward extension integral with each plate and formed at its lower end for attachment to the platform.

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