Dec. 17, 1935. H. L. GALSON 2,024,728

RESILIENT SUPPORT

Filed Sept. 30, 1933

Fig. 1

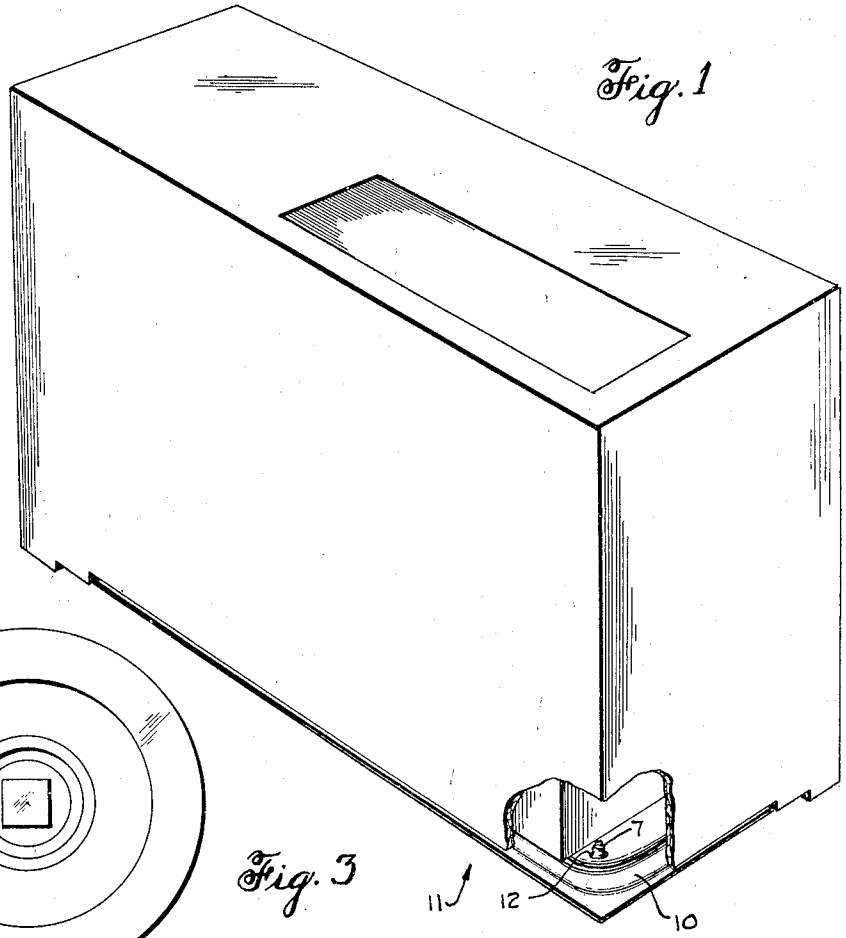
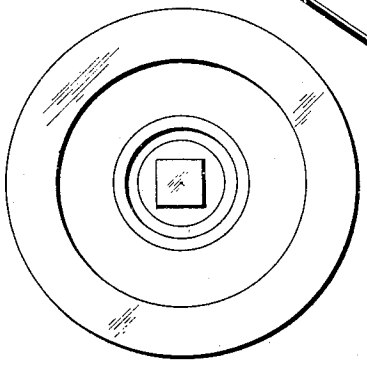


Fig. 3



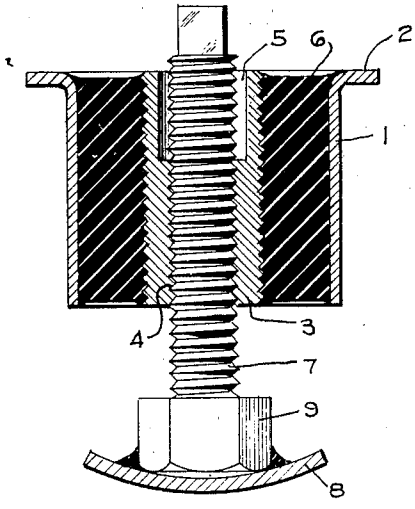


Fig 2

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Patented Dec. 17, 1935 2,024,728

UNITED STATES PATENT OFFICE

2,024,728

RESILIENT SUPPORT

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Application September 30, 1933, Serial No. 691,588

4 Claims. (Cl. 248—22)

This invention relates generally to improved means for supporting apparatus upon a floor and more particularly to an improved resilient glide for adjustably supporting relatively heavy objects such as an air conditioning unit for rooms, offices or the like.

While my improved support is particularly adapted for air conditioning units of the self-contained type wherein a compressor, condenser, evaporator and air circulating mechanism forms a self-contained unit adapted to be placed in a room or office to be cooled, my improved support may be otherwise employed especially with articles involving considerable weight or vibration. However, in room coolers particularly of the type where the condensate disposal means employs a liquid tray or receptacle that must be maintained substantially level to avoid overflow of the condensate, it is desirable to have the foot support of glide adjustable.

It is desirable to have the adjustability and resiliency contained in a unitary device whereby the article may be made cheaply and yet will have a high degree of durability and ease of operation and will also permit perferably a permanent connection between the article and the framework of the unit to be supported, while the adjustable connection is arranged so as to be subject only to the cushioned effects of vibration transmitted from the unit.

It is one object of my invention to provide an improved support embodying certain or all of the foregoing features. Another object is to provide an improved foot support so arranged that one of said members is adapted for fixed connection to a unit while the other member is adapted to carry an adjustable floor engaging element.

A further and more specific object is to have the floor engaging element adapted for adjustment from the top of the cushioned support. To provide an extremely simple, inexpensive and yet effective adjustable cushioned support I employ an annular, preferably sheet metal, member in the nature of a housing while a coaxial internally threaded sleeve is permanently connected to said housing by an annular filler of rubber preferably vulcanized thereto. A foot piece having preferably a convex surface has a stem extending upwardly through said sleeve in threaded engagement therewith.

Other objects and advantages will be more apparent to those skilled in the art from the following description of the accompanying drawing in which:

Fig. 1 is a perspective of a room cooler unit, part of which is broken away to show the application of my improved support;

Fig. 2 is a vertical section through my improved support;

Fig. 3 is a plan view of the support.

In the particular embodiment of the invention which is disclosed herein merely for the purpose of illustrating one specific form among possible others that the invention might take in practice, I have shown an annular, preferably sheet metal, housing 1 having a flange 2 while a coaxial sleeve 3 is provided with an axial opening, the lower portion 4 of which is threaded while the upper end 5 is preferably unthreaded.

Housing 1 and sleeve 3 are preferably permanently connected by an annular rubber filler 6 which may be directly vulcanized to the metal member 1 and 3. If desired the rubber contacting surfaces of these elements may be suitably roughened, scored, threaded or otherwise suitably treated to insure a tight bond between the rubber and metal, it being noted that sleeve 3 is preferably threaded on its external surface.

An adjustable threaded stem 7 engageable with threads 4 on sleeve 3 extends entirely therethrough and has a squared upper end to receive a wrench or other suitable tool while the lower end has a concave convex glide 8 which may be welded or otherwise suitably secured to screw 7. This screw may be any usual form of bolt having a head 9 for attachment to glide 8, although it will of course be understood that the bolt may assume various shapes or sizes.

The support as above described is preferably disposed beneath any suitable framework 10 of an article to be supported such as the room cooler unit diagrammatically indicated at 11. The frame 10 rests upon flange 2 which may be secured together by welding, bolts, screws or the like, but in any event an opening 12 is formed in the frame 10 through which screw 7 extends.

Any number of resilient supports may be employed as are necessary to properly support and balance the article on the floor, but in any event it is seen that the screw 7 is not only readily accessible for adjustment but also the convex floor engaging surface of glide 8 will permit easy rotation of the screw 7 without marring or otherwise damaging the floor upon which a relatively heavy object, such as a room cooler, may be supported. It is also seen that the enlarged recess 5 will receive the end of a socket wrench when the screw is adjusted for maximum elevation, although due to the relatively great length of contact between the sleeve and rubber filler, a very

substantial axial resilient support is provided thereby insuring not only maximum resiliency for maximum axial adjustment but of also effecting maximum cushioning or dampening of any vibrations that may emanate from the room cooler unit.

It will of course be understood that various changes in details of construction and arrangement of parts may be made by those skilled in the art without departing from the spirit of the invention as set forth in the appended claims.

I claim:

1. A support comprising a plurality of radially spaced members permanently secured together by a rubber annulus subject to tension when load is applied, and a floor engaging element adjustably carried by one of said members while said other member is adapted for connection to an article to be supported.

2. A support comprising a plurality of members having an interposed piece of rubber therebetween arranged so as to cause the rubber to be in tension when load is applied, one of said members being adapted for connection to an article to be supported and the other of said members carrying a floor engaging element, and means for adjusting the relative elevation between said floor engaging element and the article supported thereby.

3. A support comprising, in combination, a pair of concentrically disposed members, a resilient filler interposed between said members and permanently connected thereto, the outer one of said concentric members being adapted for connection to an article to be supported, and a stem threaded in and extending entirely through the inner one of said members and carrying a floor engaging element at one end and having provision at its other end for rotating the stem for adjusting the elevation thereof.

4. A support comprising a plurality of members having a resilient filler interposed therebetween and permanently connected thereto substantially only along axial lines thereby to cause said filler to be in tension when load is applied, a floor engaging element, and means for supporting said element by one of said members while the other member is adapted for connection to an article to be supported whereby any weight or vibration is transmitted to said element through said resilient filler.

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