April 28, 1953 S. WALLANS 2,636,703

HANGER FOR PIPES AND THE LIKE

Filed June 26, 1951

Fig. 1.

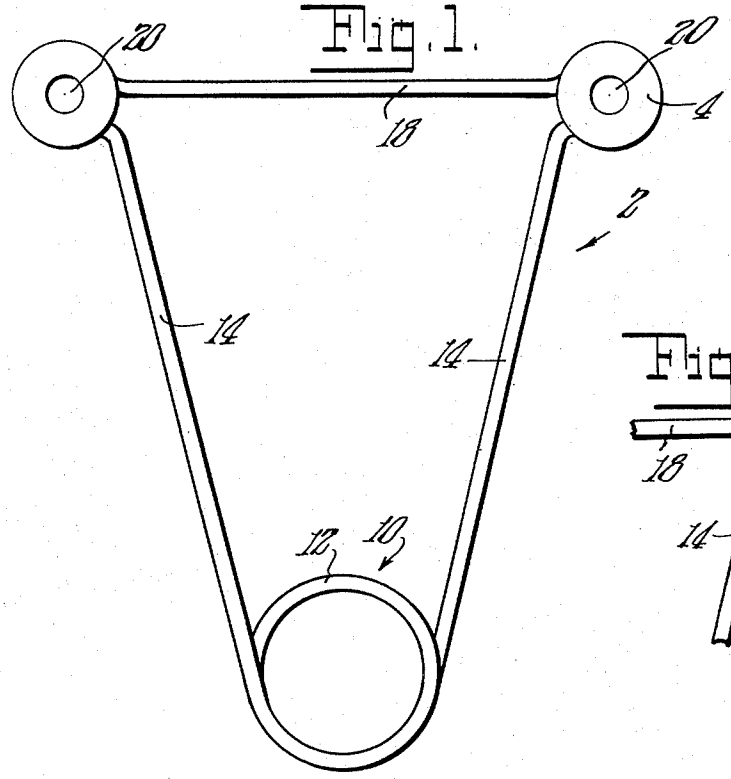
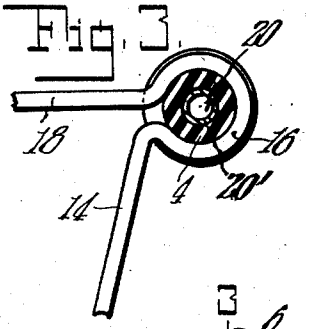



Fig. 3.



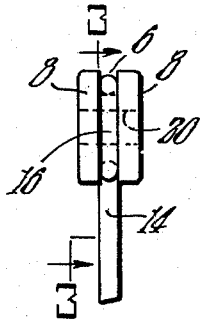




Fig. 2.

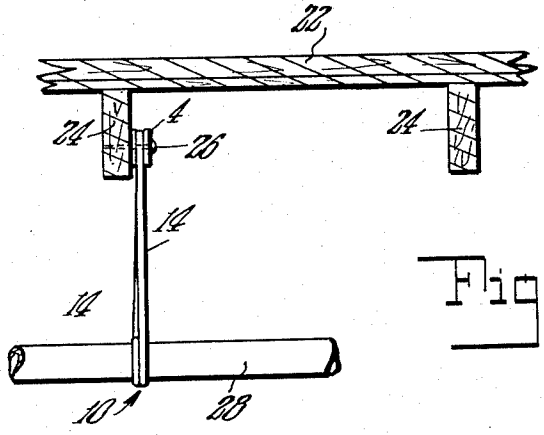



Fig. 4.

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Patented Apr. 28, 1953

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# UNITED STATES PATENT OFFICE

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## HANGER FOR PIPES AND THE LIKE

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Application June 26, 1951, Serial No. 233,599

2 Claims. (Cl. 248—58)

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This invention relates to improvements in hangers for pipes and the like.

The principal objects of the invention are directed to the provision of a hanger for pipes and conduits and the like which is characterized by means to dampen or eliminate objectionable noises normally encountered in connection with pipe hangers.

It is common practice to support piping, particularly steam and hot water piping, in V-shaped hangers which are secured to the beams, rafters or other parts of a building.

Such an arrangement has objections and disadvantages, however, in that vibrations are set up by various causes so that the noises created by the movement of the pipe and hanger are transferred to the building. Also there is considerable contracting and expanding of a hot water or steam pipe which produces objectionable creaks and the like.

According to this invention, a hanger is provided which includes a loop or seat for the pipe and which has sound absorbing means by which the hanger is secured to the building. In this way, noises originating at the junction of the pipe and hanger due to vibrations, expansion or contraction of the pipe are absorbed and dampened and are not transferred to the building.

All of the above objects I accomplish by means of such structure and relative arrangements of parts thereof, as will fully appear by a perusal of the description below and by various specific features which will be hereinafter set forth.

To the above cited and other ends and with the foregoing and various other novel features and advantages and other objects of my invention as will become more readily apparent as the description proceeds, my invention consists in certain novel features of construction and in the combination and arrangement of parts as will be hereinafter more particularly pointed out in the claims hereunto annexed and more fully described and referred to in connection with the accompanying drawings wherein:

Fig. 1 is a front elevational view of a hanger embodying the novel features of the invention;

Fig. 2 is a side elevational view of one side of the upper portion of the hanger shown in Fig. 1;

Fig. 3 is a sectional view on the line 3—3 of Fig. 2; and

Fig. 4 is a sectional view through a portion of a floor of a building and showing the hanger associated therewith and supporting a pipe.

Referring now to the drawings more in detail, the invention will be fully described.

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The hanger of the invention consists generally of an elongated member 2 such as wire or rod and cushion members 4.

The cushion members 4 are tubular and provided with openings therethrough and may have circumferential grooves 6 with flanges 8 at either side thereof, as seen in Fig. 2.

The elongated member is formed to have a lower loop 10 for receiving and supporting a pipe. Said loop may be formed with one or more convolutions 12 or it may be in the form of a loop open at its upper side.

Portions 14 of the elongated member extend upwardly from the loop 10 as side portions and merge into eyes 16 formed in the elongated member and which are connected to a transverse cross portion 18.

The elongated member will be formed as described to provide the hanger and opposite ends thereof will preferably be connected as by welding or the like thereby to provide a continuous hanger.

The cushion members 4 will be formed from such material as rubber, rubber composition or the like and will be resilient, yieldable or pliable.

The eyes 16 are formed to encircle the cushion members at least to extend therearound more than half the circumference thereof so that the hanger and cushion members are integral.

The cushion members are provided with openings 20 for a nail, screw or other fastening device.

The hanger construction is adapted for many and various uses but for purposes of description reference is made to Fig. 4.

In said Fig. 4, a floor or ceiling is represented by 22 and beams or joists are represented by 24.

The device is secured to a joist by screws, nails or the like 26 which extend through the openings 20 in the cushion members 4 and into said joist 24 so that the hanger is supported.

A pipe or pipes 28 extends through the loop 10 whereby it is supported by the hanger.

Noises caused by vibrations, or relative movements of the pipe and hanger are absorbed by the cushion members and not transferred to the joist.

The device is of such construction as to be economically manufactured while it is easily and readily installed and functions to efficiently support a pipe and at the same time dampens or absorbs noises which are objectionable.

In one form of the invention, it will be desirable to employ rigid sleeves 20′ in the openings 20 of the tubular members 4. These sleeves may be metallic tubing and will be found desirable where

weight of considerable proportion is to be supported by the hanger.

In some cases it may be desired to eliminate the transverse portion 18. In this case the distance between the upper eye portions may be relatively adjusted and there will be no necessity for welding the ends of the elongated member together.

The invention may be embodied in other specific forms without departing from the essential characteristics thereof. Hence, the present embodiments are therefore to be considered in all respects merely as being illustrative and not as being restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all modifications and variations as fall within the meaning and purview and range of equivalency of the appended claims are therefore intended to be embraced therein.

What it is desired to claim and secure by Letters Patent of the United States is:

1. A cushioning hanger for pipes and the like comprising in combination, a support including a single continuous elongated length of relatively stiff wire formed into the shape of a diamond to have an upper horizontal portion with end eye portions at opposite ends thereof and side arms extending downwardly from said eye portions in relatively converging relation to a lower jointure portion at lower ends thereof which is in the form of a closed loop for receiving and supporting a pipe, said upper portion and side arms and eye portions being in substantially the same vertical plane, said eye portions extending from the ends of the upper horizontal portion upwardly and outwardly therefrom and then downwardly and inwardly to the upper ends of the side arms and forming circles with the jointures of the ends of the horizontal portion and one end of the eye portions being closely adjacent the jointures of the opposite ends of the eye portions and upper ends of the side arms, and resilient cushion members within said eyes having enlarged end flange portions at outer sides thereof and provided with bores therethrough concentrically disposed relative to said eyes.



2. A cushioning hanger for pipes and the like comprising in combination, a support including a single continuous elongated length of relatively stiff wire formed into the shape of a diamond to have an upper horizontal portion with end eye portions at opposite ends thereof and side arms extending downwardly from said eye portions in relatively converging relation to a lower jointure portion at lower ends thereof which is in the form of a closed loop for receiving and supporting a pipe, said upper portion and side arms and eye portions being in substantially the same vertical plane, said eye portions extending from the ends of the upper horizontal portion upwardly and outwardly therefrom and then downwardly and inwardly to the upper ends of the side arms and forming circles with the jointures of the ends of the horizontal portion and one end of the eye portions being closely adjacent the jointures of the opposite ends of the eye portions and upper ends of the side arms, and resilient cushion members within said eyes having enlarged end flange portions at outer sides thereof and provided with bores therethrough concentrically disposed relative to said eyes, and relatively rigid tubular members in the bore of the cushion members.

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