

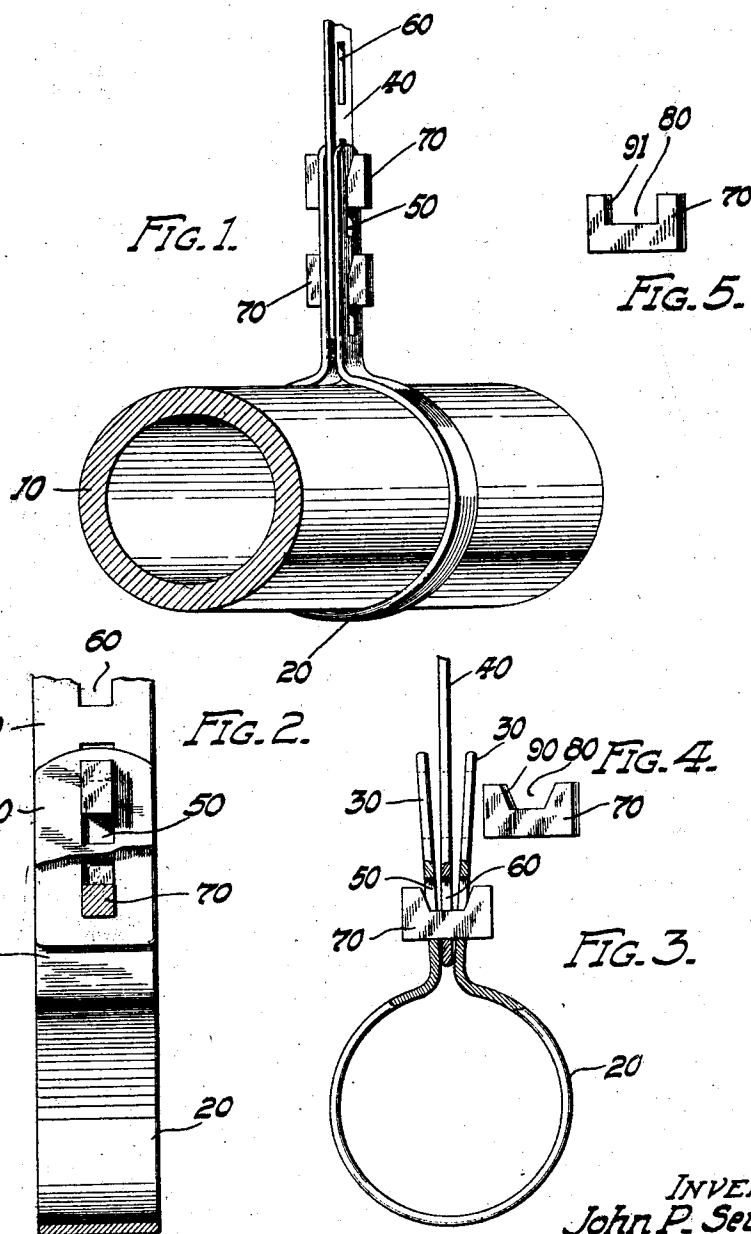
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PIPE HANGER

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WITNESS:

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UNITED STATES PATENT OFFICE.

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PIPE HANGER.

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My invention relates to a pipe hanger of a simple construction, which renders the same readily applicable as to position, and enables the pipe to be quickly adjusted at the desired level with an expenditure of time and labor which are both negligible.

The invention also comprises a construction in which the weight of the pipe supported by the hanger is utilized to effect a firm engagement of the parts constituting the hanger, with the result that when the pipe is placed in position in the hanger the elements of the hanger are interlocked in such manner as to effectively support the pipe.

An advantageous feature of the construction of my improved hanger lies in the facility with which the locking means may be disconnected when it may be desirable to remove the pipe from the hanger, in the event that change in the location thereof becomes necessary.

The novel features of my invention will be pointed out in the appended claim.

In the drawing which is attached hereto, Figure 1 is a view in perspective showing one of the improved hangers as supporting a section of pipe;

Fig. 2 is a view of the hanger in side elevation, parts being broken out so as to show the structure and arrangement;

Fig. 3 is a front elevation, partly sectioned, showing the separated elements of the hanger and illustrating the manner of their assembly;

Fig. 4 shows in perspective view one of the locking keys in its preferred form; and

Fig. 5 is a similar view showing a modification in the form of the locking key.

Referring now to the drawing, the numeral 10 indicates a section of a length of pipe about which will be placed a suitable number of my improved hangers for supporting the pipe at the desired level.

The hanger is comprised of a metallic band 20, designed to encircle the pipe, the projecting ends 30, 30, of the band being extended in substantially parallel planes from the point near which the ends of the band approach each other, so as to provide means for attaching the said band to the pendant 40. The latter member is formed as a metal strip, the upper end of which will be firmly secured to any suitable overhead

support in any manner which may be deemed satisfactory to the person engaged in the work of placing the pipes in position. The number of the hangers employed and their dimensions will be in proportion to the load which they are to carry.

The ends 30, 30, of the band 20, are provided with rectangular or other outline perforations 50, of which there may be one or a plural number. When the metal strip of which the band 20 is formed is bent into the required shape, the said perforations are in registry or alignment with relation to each other. The strip forming the pendant 40, is perforated to correspond, that is to say, the pendant may be provided at points throughout its length, or a portion of its length, with perforations 60, which are in registry with the like perforations in the ends of the band 20.

In applying the hanger to the pendant 40, so as to sustain the pipe, the ends 30, 30, are sprung apart and the band is passed about the pipe, the several bands for each length of pipe being located thereon with respect to the previously placed fixed pendants 40. The pipe is then lifted into position, the lower end of the pendant being entered between the ends 30, 30, of the hanger, and the perforations 50, 50 and 60 brought into alignment. A locking key 70, is then inserted in the aligned perforations to retain the several parts in the position desired.

The locking key 70, which is employed as a means for connecting the parts, may be formed as a rectangular piece of metal, having in its upper edge a notch 80, the side walls of which may be inclined, as indicated at 90, in Fig. 4. It will contribute to the efficiency of the locking action to have the length of the bottom of the notch less than the aggregate thickness of the ends 30, 30, and the pendant 40, when these parts are assembled and brought into engagement with each other, as shown in Fig. 1. In such position, the key 70 rests against the bottom of the opening 60 in the pendant 40, and the top portion of the slots 50 in the ends of the band 20, bear against the inclined surfaces 90, of the key. The strains thus induced by the gravitation of the pipe upon the fixed pendant 40, are centered in the key 70, with the result that the inclined

surfaces 90 formed upon the key bear with a wedging action upon the outer sides of the ends 30, 30, and press the latter closely into engagement with the opposite sides of the pendant 40, so that an effective interlocking of the parts is attained.

It is not, however, essential to practical results, that the notch in the key 70 be formed with inclined walls, inasmuch as the purposes of my invention will be fully achieved by using a key provided with a notch having vertical side walls 91, as shown in Fig. 5. In such construction, the strain imposed by the gravitation of the pipe will be transferred to the bottom of the notch, then engaging the top portions of the perforations 50, with the vertical walls 91 of the key in engagement with the outer sides of the ends of the band.

Although I have shown the assembled structure in Fig. 1, as including a pair of locking keys 70, it will be clearly within the scope of my invention to use a single key for the attainment of the purposes thereof.

The provision in the pendant 40, of perforations which in number exceed that with

which the ends of the band 20 are provided, creates a desirable latitude permitting the adjustment of the level of the pipe.

In dismantling an assembled structure, it is necessary only to relieve the key 70 of the strains imposed thereon by the weight of the pipe, re-align the perforations in the parts, and withdraw the key.

Having thus described my invention what I claim and desire to secure by Letters Patent of the United States, is:

A pipe hanger comprising a band for supporting a pipe, the said band being provided with perforated ends which extend in substantial parallelism from one side thereof, a perforated fixed pendant arranged between the projecting ends of the band, a notched key passed through the aligned perforations to connect the band to the pendant, the side walls of the notch being inclined so as to force the said ends into engagement with the sides of the pendant under the gravitation of the pipe.

In testimony whereof, I have signed my name at Milwaukee, this 27th day of May, 1921.

JOHN P. SEYFERT.