April 17, 1951 M. G. TORMO 2,549,346

PIPE HANGER

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Fig. 3.

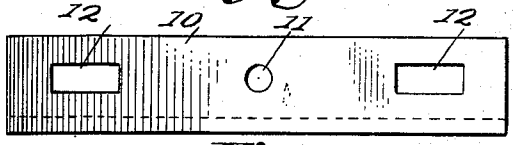


Fig. 2.

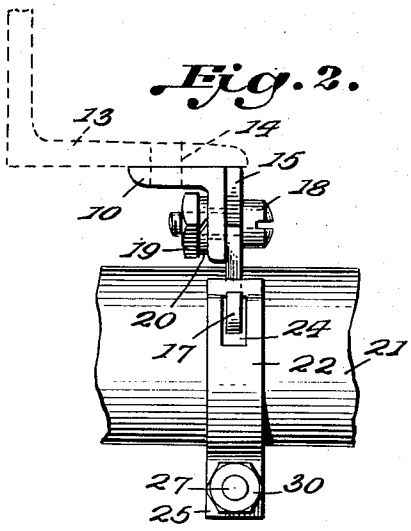


Fig. 1.

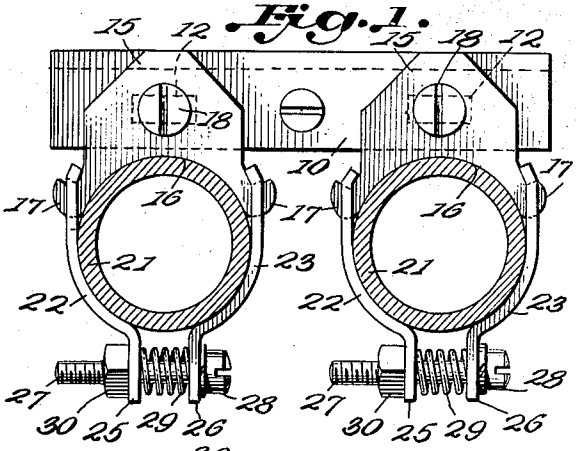


Fig. 4.

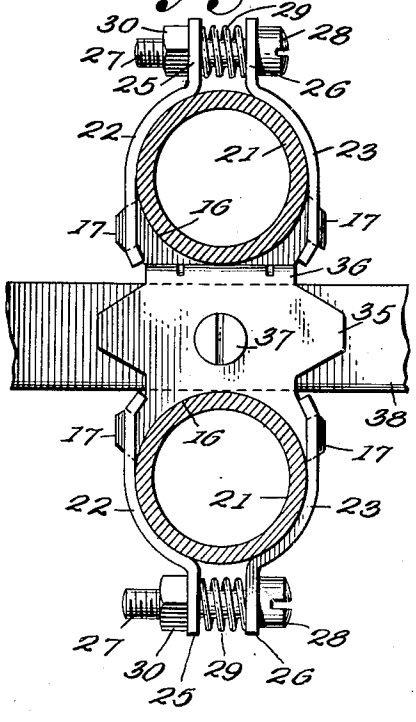
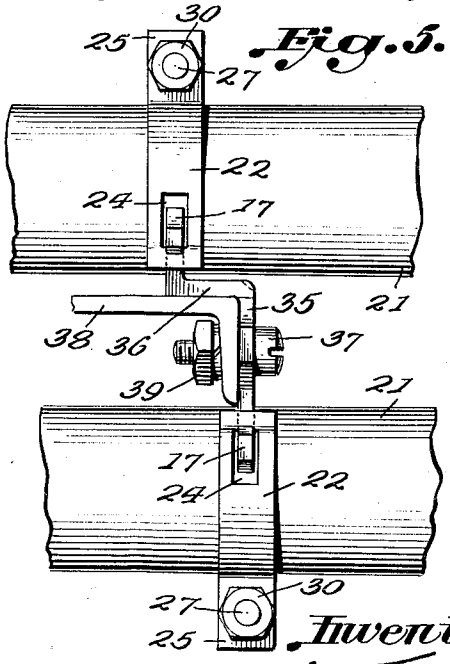


Fig. 5.



Inventor:
Mel G. Tormo
By Russell E. Patterson
Atty.

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PIPE HANGER

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Fig. 6.

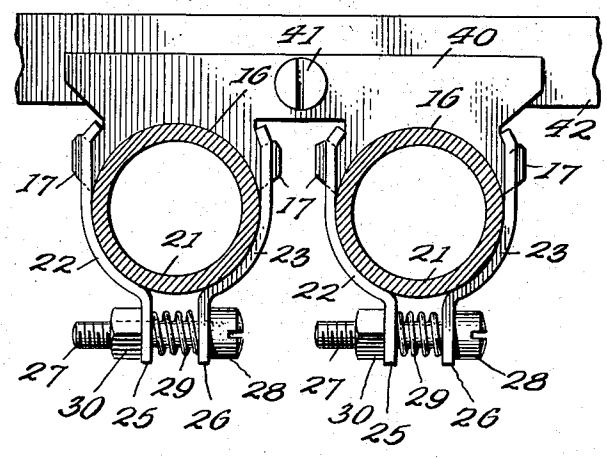


Fig. 7.

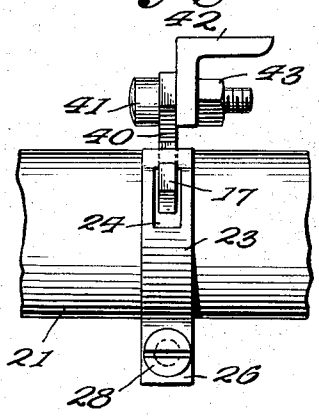


Fig. 8.

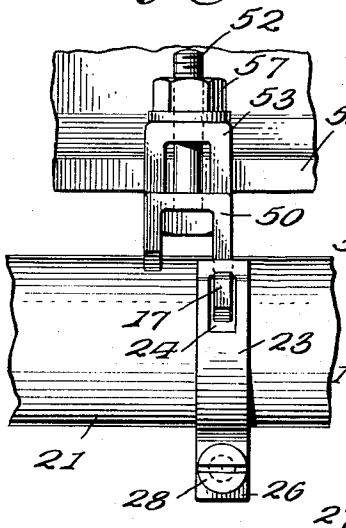
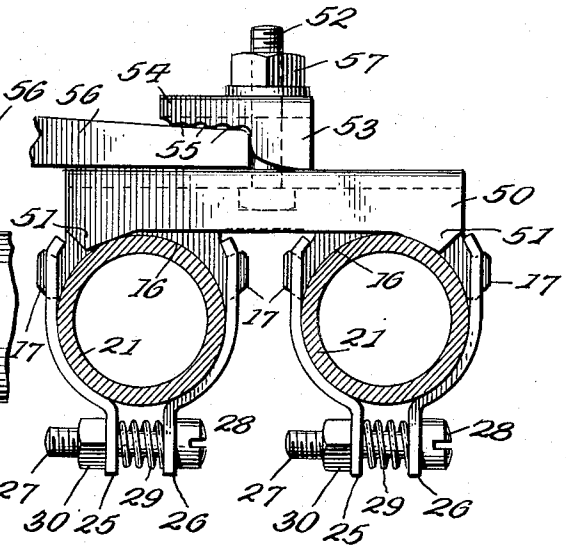


Fig. 9.



Inventor;
Mel G. Tormo
Russell R. Patterson
By atty.

Patented Apr. 17, 1951 2,549,346

UNITED STATES PATENT OFFICE

2,549,346

PIPE HANGER

Mel G. Tormo, Woodside, N. Y.

Application February 9, 1949, Serial No. 75,470

3 Claims. (Cl. 248—58)

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The present invention relates to pipe hangers and it consists in the combinations, constructions and arrangements of parts herein described and claimed.

Generally there is provided a pipe hanger construction in which a base plate is supplied with means whereby the same may be quickly and easily attached to a wall, girder or the like. Means is also provided for adjustably attaching a stationary pipe-receiving member to the base plate and the stationary pipe-receiving member is provided with a pair of integrally formed recessed ears. A removable pipe-receiving member is adapted to encircle a major portion of a pipe, each having a slot adapted to receive and interlock with an ear of the stationary pipe-receiving member and each provided with an integrally formed arm having an opening for the reception of a bolt therethrough. The bolt is surrounded with a compression spring which is adapted to bear against the inner faces of the arms and a nut is provided for adjusting the spacing between the arms upon the bolts.

It is accordingly an object of the present invention to provide a device of the character set forth which is simple in its construction and operation and yet effective and efficient in use.

Another object of the invention is the provision of a pipe hanger which is capable of quick and easy assembly and disassembly.

Another object of the invention is the provision of a pipe hanger of the character set forth having means whereby the same may be quickly and easily assembled in adjusted positions upon a wall or the like.

A further object of the invention is the provision of novel means for interconnecting a stationary pipe-receiving member and a removable pipe-receiving member.

Another object of the invention is the provision of a removable pipe-receiving member forming a part of a pipe hanger construction of the character above set forth wherein means is provided for regulating the effective distance between a pair of arcuate pipe-receiving arms forming a part of the invention.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawings, in which:

Figure 1 is a front elevational view of one embodiment of the invention,

Figure 2 is a side view of the device shown in Figure 1,

Figure 3 is a front elevational view of an element of the invention shown in Figures 1 and 2,

Figure 4 is an elevational view of a modified form the invention may take,

Figure 5 is a side elevational view of Figure 4,

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Figure 6 is a front elevational view of a further modified form the invention may assume,

Figure 7 is a side elevational view of Figure 6,

Figure 8 is a side elevational view illustrating another form of the invention, and

Figure 9 is a front elevational view of Figure 8.

Referring more particularly to the drawings, there is shown therein, in Figures 1 to 3, inclusive, an elongated base plate 10 which is right angular in cross section and which is centrally provided with a circular opening 11 in one wall thereof and a pair of longitudinally extending slots 12 adjacent either end of the same wall. The other wall of the base plate 10 is provided with openings through which the same may be fastened to a girder 13 or the like, as indicated at 14 in Figure 2.

Stationary pipe-receiving members are provided and each consists of a body 15 having a rounded cutaway portion 16 in the lower end thereof and each provided with a pair of outwardly extending recessed ears 17 at the lower end thereof. The body 15 is provided with a central opening for the reception of a bolt 18 which extends through a slot 12 and is provided with a nut 19 and lock washer 20 upon its inner end.

The rounded opening 16 is adapted to receive a pipe 21 and a movable pipe-receiving member is provided for holding the pipe firmly in position therein. The movable pipe-receiving member comprises a pair of arcuate arms 22 and 23 each provided with a longitudinal slot 24 adjacent its upper end and each provided with an integrally formed, flattened lug 25 and 26, respectively at its lower end.

The dogs 25 and 26 are provided with openings for the reception therethrough of a bolt 27 having a head 28 and a spring 29 surrounds the bolt 27 and bears against the inner faces of the lugs 25 and 26. A nut is threadably mounted upon the bolt 27 and is adapted to bear against the outer face of the lug 25.

In the operation of the form of the invention above described, it will be apparent that the base plate 10 may be readily affixed to a girder 13 or to a wall or other permanent structure by means of the bolt 14 or like fastening devices after which the fixed pipe receiving members 15 may be adjustably connected thereto by means of the bolt 18. It will be apparent that such adjustment may be effected by selectively positioning the bolt 18 in any desired portion of the slot 12. Thereafter the pipe 21 may be placed in the opening 16 and the movable pipe-receiving member may be engaged with the fixed pipe-receiving member through the simple expediency of positioning the ears 17 in the slots 24 of the arms 22 and 23. During this operation it will be apparent that the spring 29 will assist the operator greatly due to the fact that it will hold the arms 23 and 22 in

desired position for assembly. Again, when this is assembled the weight of the pipe 21 will in itself retain the arms 22 and 23 in latched engagement with the ears 17. However, if it is desired to lock the pipe in position, it is only necessary to tighten the nut 30 upon the bolt 27 thus insuring against accidental displacement of the arms 22 from the notched portions of the ears 17.

Referring now to that form of the invention shown in Figures 4 and 5, it will be seen that there is provided a stationary plate having a main body 35 which is adapted to extend vertically and a horizontally extending, integrally formed body portion 36. Upwardly extending from the horizontal portion 36 and downwardly extending from the main body portion 35 are pairs of ears 17 and the remainder of the structure shown in Figures 4 and 5, being the same as heretofore described with respect to Figures 1 to 3, inclusive, has been marked with identical reference characters.

In the operation of the form of the invention shown in Figures 4 and 5, it will be apparent that a single bolt 37 extends through the body 35 and through the device to which the same is to be fastened, as, for example, the girder 38 and that a nut 39 is provided for the bolt 37. The right angular relation between the body 35 and the horizontal portion 36 permits the device to snugly fit against the upper edge of the girder.

In Figures 6 and 7 there is shown a further modified form the invention may take in which there is provided a stationary pipe receiving member adapted to receive a plurality of pipes in spaced relation and in this case two are shown. The device comprises an elongated body portion 40 having pairs of dependant ears 17 and centrally provided with a bolt 41 which is adapted to extend therethrough and through a beam 42 or the like. A nut 43 is provided for the bolt 41. Again, the remainder of the apparatus being identical to that heretofore described the various parts thereof are provided with identical reference characters.

With regard to the use and operation of the device shown in Figures 6 and 7, it will be apparent that the stationary plate is formed of a single piece of flat material which is readily attachable to any dependant fixed object such as the girder 42.

With regard to the form of the invention shown in Figures 8 and 9, there is shown another modification of the invention in which there is provided an inverted U-shaped body member 50 one leg of which is provided with a pair of angularly disposed feet 51 and the other leg of which is provided with two pairs of dependant ears 17. A bolt 52 extends upwardly through the U-shaped member 50 and thence through a U-shaped dog 53 the feet 54 of which are serrated, as indicated at 55, whereby the same may grip the upper portion of a girder 56 or the like when a nut 57 which is threadably mounted upon the outer end of the bolt 52 is tightened. Here too, the remainder of the apparatus being identical to that heretofore described, it is given the same reference characters.

In the operation of this form of the invention, it will be readily apparent that the base member 50 is disposed beneath a girder 56 and that the dog 53 is then tightened upon the upper portion of such girder to hold the same rigidly thereon. The operation of the remainder of the apparatus is as heretofore described.

While but certain forms of the invention have been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claims.

What is claimed is:

1. A device of the character described comprising a stationary pipe-receiving member having a curvular indentation at one end, a notched ear integrally formed with the stationary member at either side of said end and a coacting pipe-receiving member removably attachable to said ears, said coacting member including a pair of arcuate arms each having a slot adjacent one end for the reception of an ear of the stationary member and formed with a lug at its other end and means for yieldably and adjustably holding said lugs in spaced relation, said means comprising a bolt extending through said lugs, a spring surrounding the bolt between said lugs and a nut for the bolt.

2. A device of the character described comprising a base plate, a stationary pipe-receiving member adjustably attached to the base plate and having a curvular indentation at one end, a notched ear integrally formed with the stationary member at either side of said end and a coacting pipe-receiving member removably attachable to said ears, said coacting member including a pair of arcuate arms each having a slot for the reception of an ear of the stationary member and formed with a lug at its other end and means for yieldably and adjustably holding said lugs in spaced relation, said means comprising a bolt extending through said lugs, a spring surrounding the bolt between said lugs and a nut for the bolt.

3. A device of the character described comprising a base plate, a stationary pipe-receiving member adjustably attached to the base plate and having a plurality of curvular indentations therein, a notched ear integrally formed with the stationary member at either side of each of said indentations and a coacting pipe-receiving member removably attachable to each pair of ears, said coacting members each including a pair of arcuate arms, said arms each having a slot adjacent one end for the reception of an ear of the stationary member and formed with a lug at its other end, said pairs of lugs each having a bolt extending therethrough, a spring surrounding the bolt between said lugs and a nut for the bolt.

MEL G. TORMO.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
940,555	Read	Nov. 16, 1909
1,450,640	Norman	Apr. 3, 1923
1,735,192	Williams et al.	Nov. 12, 1929
1,832,315	NcNulty	Nov. 17, 1931
2,339,564	Goldberg et al.	Jan. 18, 1944