J. B. HEJSER,
PIPE AND CABLE HANGER,
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Inventor
J. B. Heiser

Attorney
To all whom it may concern:

Be it known that I, Joseph B. Heiser, a citizen of the United States, residing at Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Pipe and Cable Hangers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to pipe and cable hangers and has for its object to provide a device of this nature which will be inexpensive to manufacture and one that will be more efficient and certain in action than those heretofore proposed.

With these and other objects in view the invention consists in the novel details of construction and combinations of parts more fully hereinafter disclosed and particularly pointed out in the claims.

Referring to the accompanying drawings forming a part of this specification in which like numerals designate like parts in all the views, Figure 1 is a diagrammatical side elevational view showing my invention applied to a beam; Fig. 2 is a perspective view of one of the clamping members; Fig. 3 is a side elevational view partly in section of the strap portion of my hanger applied to a wooden or other support; Fig. 4 is a diagrammatical end elevational view illustrating how the strap portion of my hanger may be employed to support a plurality of pipe, cables or other objects; Figs. 5 and 6 illustrate still further ways of supporting pipe, cables, etc., by the strap portion of my hanger; Fig. 7 is a bottom plan view of the strap I employ as a hanger; Fig. 8 is a perspective view of an H-shaped locking member I employ to hold the parts together; and Fig. 9 is a perspective view of a convenient form of T-headed screw I may employ with wooden supports.

1 indicates a clamp member preferably of sheet steel, having the holding member 2, adapted to overlie the flange 3 of a beam 4, and provided with the bent holding toes 5, preferably formed by bending the metal at right angles to the body 2 and then reversely bending it back upon itself as plainly shown in Fig. 2. The said clamp member 1 is further provided with the elongated holes 6 having the enlarged eye portions 7, adapted to receive the toes 5, as well as the parallel holding members 8 and cross member 9 of the H-shaped locking member 10, as will more fully appear hereinafter.

The strap member 12 of my hanger is preferably made of sheet metal such as tinmed or galvanized iron, copper, etc., and is provided with the elongated holes 13 having the eyes 14 likewise adapted to receive the H-shaped locking member 10, as well as the bend 16 and body 17 of the screw 18.

In operation when it is desired to hang a pipe, cable or other like objects from a flanged beam, a plurality of clamping members 1 are adjusted lengthwise of each other until their holding members fit each edge of the flange 3, whereupon the toe 5 of each clamp member is thrust through a hole 6 of its companion clamp member, and the two clamp members thus constitute a convenient means for receiving at H-shaped locking member 10. Said member 10 next has one of its parallel holding bars 8 thrust through the matching elongated holes 6 in the clamping members 1 and through a matching or registering elongated hole 15 in a strap 12, whereupon said locking member 10 may be turned through an angle of 90°, and the body or end 20 of said strap 12 turned down over said holding bar 8 as will be clear from Fig. 1.

By the means and procedure just disclosed the strap 12 is firmly supported by the flat sides of the holding bar 8, so no tendency to cut said strap is encountered; and said strap is also at the same time securely locked to the clamp member 1. Further, as the strains will come eigaswise on the clamp member 1, and as the latter are thus firmly locked together as well as the toes 5, an exceedingly strong clamp is provided from a minimum of metal.

The parts being assembled as just disclosed and a plurality of straps thus secured at suitable distances along the beam 4, a pipe such as 21, of any reasonable size is encircled by the lower ends 22 of the different straps 12, and holes 15 in said ends made to register with holes in the body portions of said straps, whereupon locking members 10 are placed through the registering holes and the ends 22 turned down over said members 10 as before, all as will be clear from Fig. 1. It is an important feature of my invention that while providing for a wide range of adjustability to accommodate pipe of different
sizes I always take the strain on the flat side of the strap 12, so the tendency to tear the metal is greatly reduced.

In those cases when it is desired to hang pipe, cables, etc., from a wooden support, a convenient means is found in the T-headed screw 16, the flat head 16 of which acts precisely as does one of the holding bars 8 above described, and the rounded body portion 17 of which acts like the cross bar 9 of the locking member 10, all as will be clear from Figs. 3, 4 and 5. When using a member 10 or the screw 18 as a means of fastening the strap 12 to a support it is convenient to employ the locking bars or members 10 in a large number of ways, some of which are illustrated in said Figs. 3, 4 and 5.

In Fig. 6 an instance is illustrated wherein neither the clamps 1, nor the screw 18 is required. In such case the pipe or cable 26 is suspended by passing the upper end 27 of the strap 12 around a smaller cable, pipe or other object 28, and the lower end around said pipe or cable 26 that is to be supported. A convenient hole in the end 27 is made to match or register with a convenient hole in the other end of said strap 12, and these two registering holes are made to register with a third hole in the body of said strap. A locking member 10 is then passed through the three holes, turned 90° and the end of the strap bent down over the locking member 10 as before.

It is obvious that those skilled in the art may vary the details of construction as well as the arrangement of parts without departing from the spirit of my invention, and therefore I do not wish to be limited to the above disclosure except as may be required by the claims.

What I claim is:

1. In a pipe and cable hanger the combination of a pair of clamp members each provided with a toe extending at an angle to its body portion, and with elongated openings adapted to register; a locking member provided with a flat holding bar and a cross bar adapted to enter said openings; and a strap member provided with elongated openings adapted to register with said first named openings and to be also entered by said locking member, substantially as described.

2. In a cable and pipe hanger the combination of a locking support comprising a flat locking bar; a strap provided with elongated openings, one of which is adapted to be entered by said bar and said strap adapted to be bent down over said bar; and a locking member comprising an H-shaped piece adapted to enter other elongated openings of said strap and lock two portions of said strap together, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses.

JOSEPH B. HEISER.

Witnesses:

CHRIS. B. BIELEFELD,CHEER,
LOUG W. CLARK.