

PATENT SPECIFICATION



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160,686

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COMPLETE SPECIFICATION.

Improvements in Supports for Conduit Pipes and the like.

I, CLARENCE CLINTON KORN, Electrician, of 1097, Franklin Street, in the City of Johnstown, County of Cambria, State of Pennsylvania, United States of America, citizen of the United States of America, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

My invention relates to conduit supports, or pipe hangers, and is designed to provide a simple and efficient form of device by means of which a conduit pipe may be supported and carried upon the structural work of buildings. My improved support provides a device of this character which may be manufactured at a relatively low cost; which may be quickly and readily applied and removed; and which forms a convenient and secure means for supporting a conduit pipe in a position generally at right angles to the direction of the frame member upon which it is carried.

The nature of my invention will be best understood by reference to the accompanying drawing, which will now be described, it being premised, however, that various changes may be made in the details of construction and arrangement of the several parts, without departing from the spirit and scope of my invention, as defined in the appended claims.

Fig. 1 is a side view showing a conduit support embodying my invention.

Fig. 2 is a perspective view of the jaw member of the support.

Fig. 3 is a view similar to Fig. 1, but showing a modification.

Fig. 4 is a perspective view of another modification.

In this drawing, the numeral 2 designates the frame member of a building and

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which, in this case, consists of an angle. The numeral 3 designates a portion of a conduit pipe to be supported, and 4 a jaw member having a support-engaging portion 4^a and a conduit-engaging portion 4^b, the latter portions being at an angle to each other. The support-engaging portion 4^a is shown in Fig. 1 as being provided with a biting or projection which engages the upper surface of the horizontal flange of the angle iron. The pipe-engaging portion 4^b is slotted or bifurcated as indicated at 6 so as to engage and partially embrace the conduit pipe. The numeral 7 designates a U-bolt which embraces the conduit pipe and whose legs extend upwardly through the intermediate portion of the jaw member where they are secured by nuts 8.

When the parts are engaged in the manner shown in Fig. 1, it will be seen that the conduit pipe 3 is securely supported and held, the U-bolt pulling it tightly against the underside of the angle flange, and also into the slot or bifurcations of the jaw member.

In the modification shown in Fig. 3, a construction substantially the same as that just described is provided except that instead of providing the support-engaging portion 4^a of the jaw member with a biting lip or projection, said portion extends at such an angle to the angle flange that its corner portion 9 is adapted to bite said flange. In this figure I have also shown a spacer 10 interposed between the conduit pipe and the underside of the angle flange. In some cases it may be desirable to use this spacer for the purpose of offsetting the pipe somewhat away from the angle. This spacer may be of any suitable character.

In the form shown in Fig. 4, the jaw member 19, provided with bolt holes 20

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and pipe engaging portion 23, has its biting element integral with said body, as indicated at 22. The numeral 21 here indicates one of the sides of the jaw 19 where the latter is widened, in the same manner as the jaw 4 in Fig. 2.

Where the portion 4^a is provided with the biting lip or projection, such lip or projection may, if desired, be formed of a separate piece of hard steel, such as tool steel, seated and secured in the portion 4^a. Or, referring to the modified form shown in Fig. 4, the entire device may be made of spring or high-carboned steel, and the whole tempered so as to obtain the hard biting element.

While I have illustrated my invention as applied to a horizontally extending angle, it will be readily understood that the angle may extend either vertically or obliquely. Also that instead of an angle, the support may consist of any flanged member such as a channel, *etc.*

While the invention is designed to form a support for carrying a conduit pipe in a direction generally at right angles to the longitudinal direction of the supporting frame member, it will be readily understood that the parts may be skewed to a considerable angle, if desired.

The advantages of my invention will be apparent from the foregoing. The parts are few in number; they can be manufactured at a relatively low cost; they can be quickly applied and removed. At the same time the device is one of great efficiency for the described purposes.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A conduit support, comprising a jaw member having two portions at an angle to each other, one of said portions forming a support-engaging bite, and the other of said portions being slotted or bifurcated to engage the conduit, together with a U-bolt through which the conduit is designed to extend and whose legs are secured in the intermediate portion of said jaw member.

2. A conduit support according to Claim 1, comprising means for tying said support to said conduit, said support being composed of tempered high-carboned steel.

3. A conduit support according to Claim 1, wherein the U-bolt is provided with a loop extending in the direction of the conduit engaging portion of the jaw member and adapted to support the conduit at a point between said portion and the supporting flange.

4. A conduit support substantially as shown and described.

Dated this 7th day of May, 1920.

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3, John Street, Bedford Row, London, 70
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[This Drawing is a reproduction of the Original on a reduced scale.]

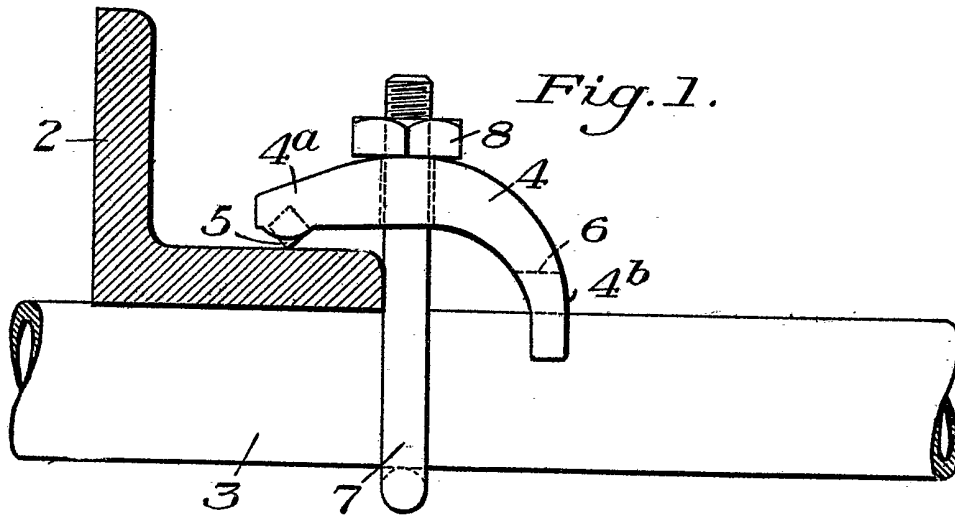


Fig. 1.

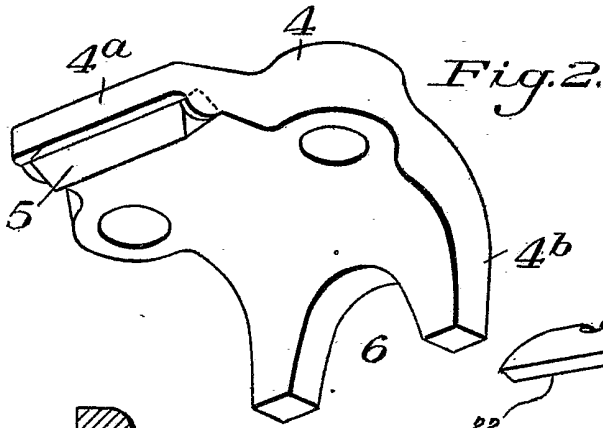


Fig. 2.

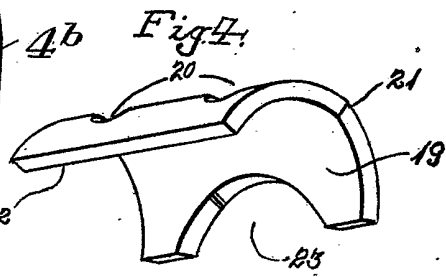


Fig. 3.

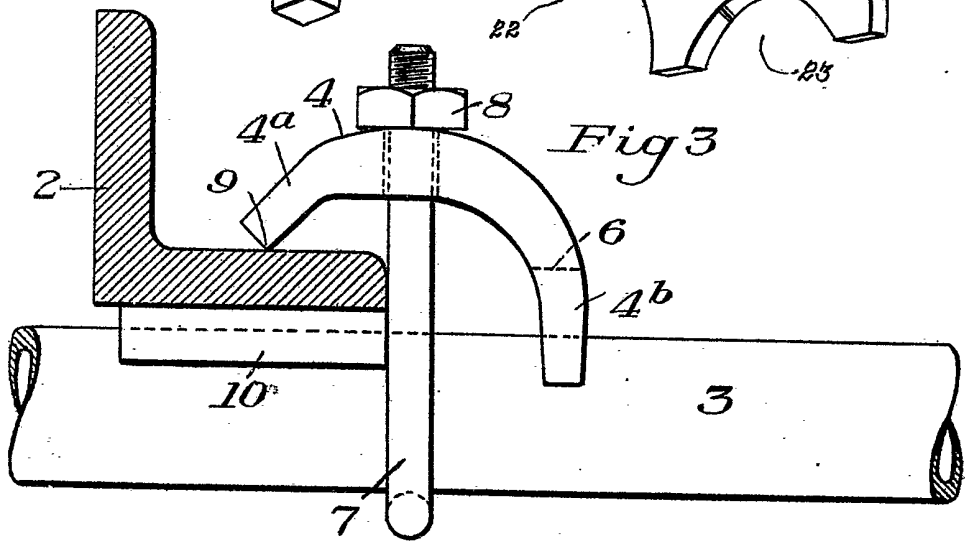


Fig. 4.