

D. B. McINTYRE.
PIPE AND CABLE HANGER.
APPLICATION FILED SEPT. 8, 1914.

1,137,069.

Patented Apr. 27, 1915.

Fig. 1.

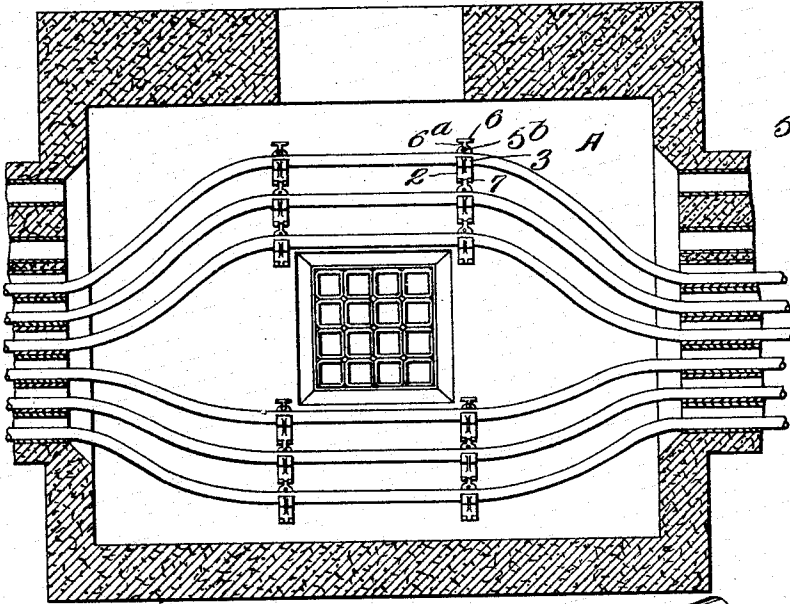


Fig. 2.

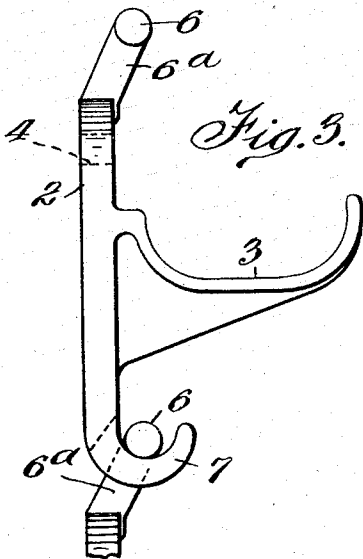
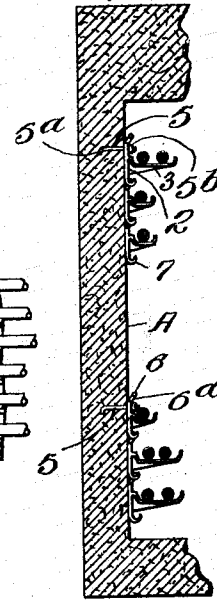


Fig. 3.

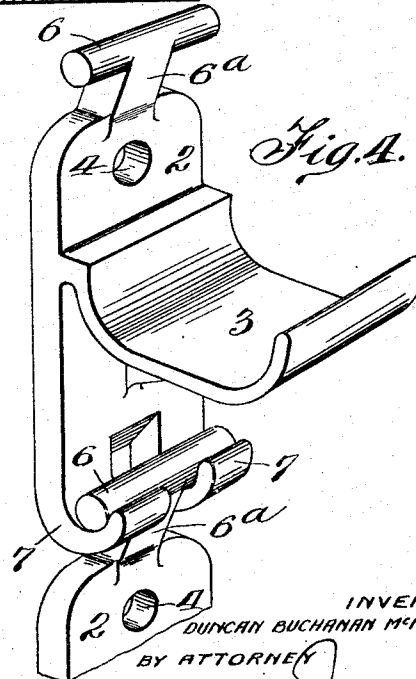


Fig. 4.

WITNESSES

Witnesses
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PIPE AND CABLE HANGER.

1,137,069.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DUNCAN BUCHANAN McINTYRE, a subject of the King of Great Britain, and resident of the city of Montreal, Province of Quebec, Dominion of Canada, have invented certain new and useful Improvements in Pipe and Cable Hangers; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to hangers or brackets for pipes or cables; for instance hangers for supporting electric cables of underground systems, the particular application of the invention to be described and illustrated being hangers for supporting electric cables in the manholes of said underground systems.

An object of the invention is to provide a hanger which is formed of sections which may be readily connected together or disconnected to increase or reduce the extent or capacity of the hanger as required.

Further objects with the above and additional features will be hereinafter more fully described and particularly pointed out in the appended claims.

For full comprehension, however, of my invention reference should be had to the accompanying drawings forming a part of this specification, in which similar reference characters indicate the same parts and wherein;

Figure 1 is a vertical section of a manhole of an underground conduit system and illustrating my improved hanger in use; Fig. 2 is a vertical section taken at right angles to Fig. 1; Fig. 3 is a side elevation of the bracket; and Fig. 4 is a perspective view of the same.

My improved hanger which may be formed in any suitable manner such as by casting or press forging, consists of an angular member having a preferably flat back portion 2 forwardly from which a portion 3 extends, it being desired to have this latter portion formed with a depression for the reception of the pipe or cables or more than one of the same. The back 2 has a hole 4 therein preferably above the cable support 3 to receive a bolt 5 whereby the hanger is supported.

I have provided means whereby two or more of the brackets may be detachably connected to form a rack and the means shown in the drawings consist of a T-form exten-

sion 6 at one end, preferably the top, of the back and a pair of forwardly extending lugs 7 at the bottom, the shank 6^a of the extension being forwardly inclined so as to bring the cross-piece to a forwardly offset position with relation to the back 2 for a purpose to be presently described. When one hanger is to be connected to another, the shank 6^a of the extension 6 of one of such hangers is placed between the lugs 7 of another, the cross-piece of the extension 6 resting upon the lugs and sufficient space being left between the bottom of the cable support 3 and the lugs to enable the T-form extension to be readily engaged with the lugs.

Heretofore a slotted frame embedded in the wall of the manhole has generally been used to secure the cable hangers to the latter, it being necessary to have the frame of sufficient length to accommodate the maximum number of hangers that may be required in the manhole but as shown particularly in Figs. 1 and 2 the use of the slotted frame is avoided, the top hanger being supported by the single bolt 5 embedded in the wall A of the manhole and the hanger extended for the reception of the full number of cables by linking other hangers to the first, it being preferred that each hanger should form the support of one below it but if desired additional bolts may be passed through the holes 4 of more than one of the hangers as an additional support for the rack.

I have shown the bolt 5 as being formed with a down-turned end 5^a embedded in the wall of the manhole and having its opposite end projecting from the wall and screw-threaded to receive a nut 5^b which is screwed upon the bolt after the hanger has been hung on the latter but any desired bolt or pin may be employed such as an expansion bolt and sleeve.

As shown in the drawings the plurality of hangers of the rack are in substantial vertical alinement with their backs 2 flat against the wall or other support, this position, which insures a solid support for the hangers, being secured by the above described forward offset location of the T-form extensions which enable such extensions being placed between the lugs 7 and against the outer face of the backs without holding the hanger out from the wall. The lugs 7 are extended upwardly to form depressions preventing the accidental outward disconnection of one hanger from the other.

The shelf or cable supporting portion 3 of the hanger may be of any desired width to accommodate one or more cables and as one hanger can be readily connected or dis-
5 connected without the use of tools, the complete hanger or rack can be quickly and easily set up and extended or reduced as requirements demand.

What I claim is as follows:

10 1. A hanger consisting of a flat back portion and a shelf portion extending outwardly from the back, such back portion having a hole therethrough, an extension of T-form at one end of the back and a pair
15 of spaced lugs at the opposite end of the back.

2. In combination, a wall, a bolt embedded in the wall at one end, and a hanger consisting of an angular bracket having a
20 hole therethrough for the reception of the bolt, an extension of T-form at one end of the bracket, a pair of spaced lugs at the opposite end of the bracket and a second substantially similar angular bracket, the T-
25 form extension of such second bracket be-

ing located between and supported by the lugs of the first bracket.

3. In combination, a wall, a bolt extending out from the wall, a bracket consisting of a back portion having a hole there-
30 through, hung upon the bolt and lying flat against the wall, a shelf portion extending outwardly from the back, a pair of outwardly extending spaced lugs at the bottom of said back and a second bracket consisting
35 of a back in alinement with the first back and lying flat against the wall, a shelf portion extending outwardly from the second back, an outwardly extending T-form extension at the top of said second back and
40 located between and resting upon the lugs of the first bracket whereby such second bracket is supported.

In testimony whereof, I have signed my name to this specification, in the presence of
45 two subscribing witnesses.

DUNCAN BUCHANAN MCINTYRE.

Witnesses:

CHAS. MASSON,
STANLEY C. KING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."