

UNITED STATES PATENT OFFICE.

EMIL BEHRINGER, OF BROOKLYN, NEW YORK.

RADIATOR-PIPE HANGER.

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To all whom it may concern:

Be it known that I, EMIL BEHRINGER, a citizen of the United States, residing in Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Radiator-Pipe Hangers, of which the following is a specification.

This invention relates to hangers for radiator pipes though it is noted that the invention is not limited to radiator pipes nor even to pipes.

One object of the invention is to provide an apparatus or device of this kind made of sections interlockable to form a hanger suitable for any number of pipes.

Another object of the invention is to provide an apparatus or device of this kind in which the sections may be easily interlocked or unlocked and attached to their supports.

Another object of the invention is to provide an apparatus or device of this kind which is light of weight and easily stamped from sheet metal.

Other objects of the invention are to improve generally the simplicity and efficiency of such devices and to provide a device or apparatus of this kind which is durable, economical to manufacture and operate and which will not get out of order.

The inventive features for the accomplishment of these and other objects are embodied in an improved hanger which, briefly stated, comprises sheet metal sections formed with an intermediate member, and side members provided with slots and connecting members adapted to engage in the slots of the adjacent section, said body portion being provided with outwardly disposed hanger arms, and attaching bridges above said arms for attaching the sections to their support.

Other objects of the invention will appear as the description proceeds; and while herein details of the invention are described, the invention is not limited to these, since many and various changes may be made without departing from the scope of the invention as claimed.

In the accompanying drawing, showing by way of example one of many possible embodiments of the invention,

Fig. 1 is a front perspective view of one of the hanger sections;

Fig. 2 is a rear perspective view with a plurality of the sections interlocked to form a hanger for a number of pipes; and

Figs. 3 and 4 are vertical sectional views, partly in elevation of the side member showing locked and unlocked positions of said interlocking member.

My improved sectional pipe hanger comprises a plurality of interlocking sections 5 (Fig. 2) each section comprising a sheet metal stamping formed with a pair of backwardly turned side members 6 (Fig. 1) and an intermediate body portion or member 7.

Each of said side members 6 is provided near its upper edge with a slot 9, arranged transversely of the side member, and at the lower part with an inverted U-shaped cut 10 to provide an interlocking connecting member 11 inwardly and downwardly pressed and provided with a hooked end 12 (Figs. 2 and 3) adapted to pass through and be upwardly clinched, as in Fig. 4 at the outside of the slot 9 of the next lower section 5, the sections thus being connected to each other longitudinally and the walls of the side members 6 brought into alinement, so that the lower ends of the walls of the side members of upper sections rest upon the upper ends of the walls of side members of sections next below and are supported thereby.

Said intermediate body portion or member 7 (Fig. 1) is provided with upper and lower inverted approximately U-shaped cuts 15 to provide outwardly pressed downwardly-outwardly and upwardly curved hanger arms or brackets 16 each adapted to receive a pipe 17 or the like horizontally laid thereon. The yoke portion 19 of said approximately U-shaped cuts is downwardly curved to leave a centrally enlarged attaching bridge 20 above said cuts provided with a mid opening 21 for receiving a bolt, screw or the like by which the hanger is secured to a wall or other support (not shown).

The operation of the device is simple and obvious. The number of sections required to support the desired number of pipes are stacked one above the other as in Fig. 2, and the attaching members 11 bent from the

solid line position of Fig. 3, through the dotted line position until the hooked end passes through the slot 9 of the next lower section, whereupon the hooked end is
 5 clinched as in Fig. 4.

The hanger thus formed is secured in the desired place by bolts, screws or the like passed through the openings 21, after which the pipe 17 or the like is laid thereon.

10 The sections may be disassembled by unclenching the hooked end 12 and moving the connecting member back to the position of Fig. 3.

Obviously, single uninterlocked sections
 15 may be used, as for two pipe radiators or for transmission pipe lines. Also the hangers may be used for hanging cables or any other articles, for display or storing purposes, or any other suitable use; and sections hav-
 20 ing one, three or any number of hangers may be provided.

The side members 6 are formed slightly diverging rearwardly to form a forwardly tapered section having a forwardly tapered
 25 chamber between the side members to facilitate the nesting of the the sections one within the other for packing, shipping and stowing, the arms or brackets 16 being made forwardly tapering to permit the brackets
 30 of one section to enter and pass through the openings formed by the cuts 15, thus to permit more effective nesting of the sections.

Having thus described my invention, it should be understood that there may be
 35 modifications thereof and variations therein without departing from the spirit of the invention or exceeding the scope of the appended claims.

I claim:

40 1. In a pipe hanger, a hanger section comprising side members and an intermediate body member; the side members having slots near the upper ends thereof and connecting
 45 members near the lower ends thereof; the connecting members being adapted for engaging the slots of side members of an adjacent hanger section; the connecting mem-
 50 bers when engaged in said slots retaining the hanger sections in operative longitudinally connected relation.

2. In a pipe hanger, supporting means; a hanger section comprising side members and an intermediate body member; and means
 55 for securing the hanger section to the supporting means; the side members having slots near the upper ends thereof and connecting members near the lower ends
 60 thereof; the body member having means for supporting pipes; the connecting members being adapted for engaging the slots of side members of an adjacent
 65 hanger section; the connecting members when engaged in said slots retaining the hanger sections in operative longitudinally connected relation.

3. In a pipe hanger, a hanger section comprising side members and an intermediate body member; the side members having slots near the upper ends thereof and connecting
 70 members near the lower ends thereof; the connecting members being adapted for engaging the slots of the side members of an adjacent hanger section and having ends
 75 for engaging the walls of the side members adjacent to the slots of the adjacent section for retaining the hanger sections in operative longitudinally connected relation.

4. In a pipe hanger, supporting means; a hanger section comprising side members and an intermediate body member; and means
 80 for securing the hanger section to the supporting means; the side members having slots near the upper ends thereof and connecting members up-struck from the side
 85 members near the lower ends thereof; the intermediate body member having up-struck pipe supporting brackets; and means for securing the hanger section to the supporting
 90 means; the connecting members being adapted for engaging the slots of the side members of an adjacent hanger section and having ends for engaging the walls of the
 95 side members adjacent to the slots of the adjacent section for retaining the hanger sections in operative longitudinally connect-

5. In a pipe hanger, supporting means; a hanger section comprising side members and an intermediate body member; and means
 100 for securing the hanger section to the supporting means; the side members having slots near the upper ends thereof and connecting members up-struck from the side
 105 members near the lower ends thereof; the intermediate member having up-struck pipe supporting brackets; and means for securing the hanger section to the supporting
 110 means; the connecting members of a hanger section being adapted for engaging the slots of the side members of a hanger section arranged next below the first hanger section
 115 and having ends for engaging the walls of the side members of said next below section adjacent to the slots; said ends passing through said slots and being bent into engagement with a face of said walls; the
 120 connecting members when engaged in said slots retaining the hanger sections in operative connected relation and the walls of the connected hanger sections in end to end sup-
 125 porting alinement.

6. In a pipe hanger, a hanger section comprising side members and an intermediate body member; and means for securing the
 130 hanger section to a supporting means; the side members diverging outwardly from the body member and providing with the body member a chambered space having outwardly
 135 diverging side walls; the side members having slots near the upper ends thereof and

connecting members near the lower ends thereof; the body member having on its outer face pipe supporting means and openings adjacent to the pipe supporting means; the hanger sections being nestible for packing or shipment by the reception of one hanger section in the diverging chambered space of another hanger section, the pipe supporting means of the nested hanger section passing through the above mentioned openings of the other hanger section.

EMIL BEHRINGER.

Witnesses:

H. M. KILPATRICK,
D. I. PENNEY.