I. RAUCH.

STEAM PIPE HANGER.

APPLICATION FILED MAR. 12, 1919.

1,316,255. Patented Sept. 16, 1919.

FIG. 1.

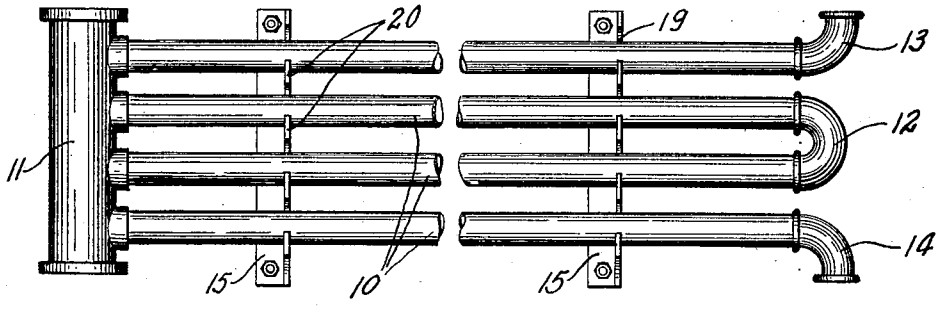


FIG. 2.

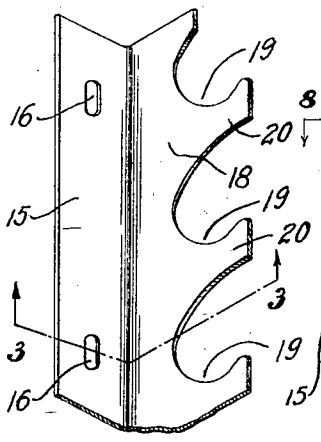


FIG. 7.

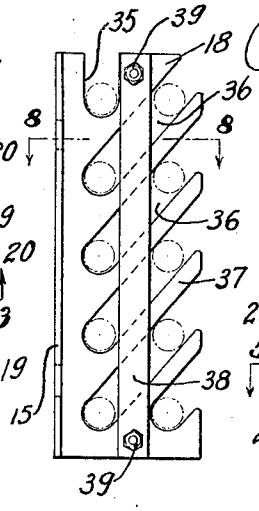


FIG. 4.

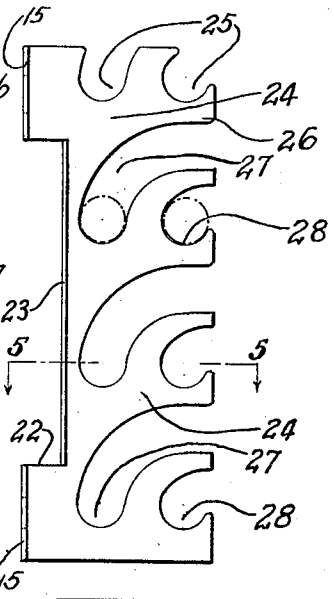


FIG. 8.

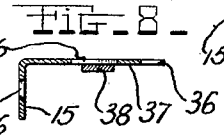


FIG. 3.

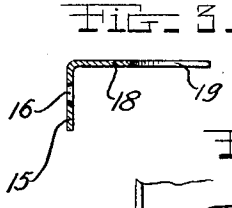


FIG. 5.

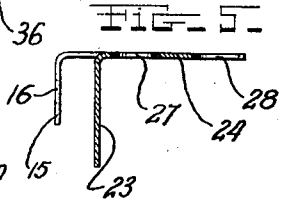
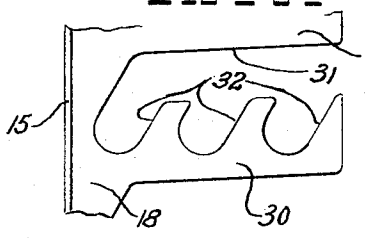


FIG. 6.



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STEAM-PIPE HANGER.

1,316,255. Specification of Letters Patent. Patented Sept. 16, 1919.

Application filed March 12, 1919. Serial No. 282,251.

To all whom it may concern:

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

This invention relates to improvements in pipe hangers, such as are used for supporting pipes conveying steam, hot water, or gases adapted to either raise or lower the temperature of compartments in which they are located, as workshops, mills, factories, refrigerating plants, etc., etc.

The principal object of the invention is to provide a hanger adapted to support a plurality of horizontally disposed pipes, holding them in spaced relation, in vertical rows, adjacent to the wall of a building.

A further object is to provide a hanger made from a single piece of rolled angle or sheet metal bent so that one part can be used as a base or bracket attached to the wall, and another part arranged as a rack to receive the pipes, such construction being lighter, stronger and less liable to fracture, than the ordinary cast iron commercial devices used for the purpose.

These and other objects are attained by the novel construction and formation of parts hereinafter described, and shown in the accompanying drawings, forming a material part of this disclosure, and in which:—

Figure 1 is a front elevational view showing a conventional row of pipes and indicating the application of the improved hanger.

Fig. 2 is a fragmentary perspective view showing in detail, a pipe hanger made in accordance with the invention.

Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is a side elevational view showing a modification in construction of the hanger, in which the base element is bent as occasion requires.

Fig. 5 is a transverse sectional view taken on line 5—5 of Fig. 4.

Fig. 6 is a fragmentary side elevational view showing another form of the rack element.

Fig. 7 is a side elevational view showing another modification of hanger construction, and

Fig. 8 is a transverse sectional view taken on line 8—8 of Fig. 7.

In the drawings, the numeral 10 designates a row of horizontally disposed pipes, fixed in a head 11 at one end, the inner pipes being connected at their opposite ends by return bends 12, elbows 13 and 14, acting as inlets and outlets for the contents of the pipes.

In the preferred form, the supporting connection or hanger engaging between the rows of pipes and walls, consists of a plate of metal, as sheet steel of suitable thickness, bent lengthwise at a right angle to form a bracket-like base 15, provided with two or more longitudinal slots 16 for the reception of wood or lag screws if the wall is faced with wood, or bolts either plain or of the expansion type, if the wall be of brick or stone.

The perpendicular element 18 of the hanger is formed with a plurality of curved recesses 19, extending rearwardly and downwardly from the outer end, the recesses being proportioned and suited to the pipe to be carried, and spaced one from another to agree with the required distance, the angular projections 20 extending between the recesses being of adequate strength for the function for which they are designed, forming an open rack-like structure of neat appearance and stability. It will be apparent that these hangers or hook plates can be made by ordinary punch press methods or by milling at a low cost of manufacture.

Also due to their form, they can be packed closely for transportation and storage and while relatively light in weight, are not fragile or easily broken in handling, erection or use.

In the modification shown in Figs. 4 and 5 the rear of the base plate 15 is formed into sections having an offset relation, the cutaway portion 22 being turned angularly outward into a flange 23, permitting the passage of articles between the hanger and wall of the building or for other purposes as may be desired.

The outstanding plate elements 24 are formed at their top with a pair of openings 25 adapted to receive two pipes disposed in parallel horizontally, while below the extending element 26 is a relatively long curved recess 27 the bottom of which is level with the bottom of the outer shorter recess 28, permitting the pipes to be disposed in pairs thereby affording a double row of pipe units.

In the modification indicated in Fig. 6

are arms 30 extending outwardly from the base plate 15, the arms being separated by horizontal openings 31 having a plurality of recesses 32 adapted to accommodate pipes in a horizontal row and it will be obvious that any number of these arms or length of hanger may be made.

In the modification shown in Figs. 7 and 8, the outwardly extending element is formed with a vertical recess 35 at the top, and a plurality of downwardly and rearwardly extending diagonally disposed recesses 36, spaced by arms 37, these recesses being adapted to receive pipes in the manner before indicated, and which are held separated by a vertical strip or bar 38, secured by screws 39, at the projecting elements of the hanger.

The process of attaching the hangers to the walls or supports and assembling pipes in their respective recesses, is so clearly evident that further detailed description is considered unnecessary.

Having thus described a practical embodiment of my invention and set forth the manner of its construction, application and use, what I claim as new and desire to secure by Letters Patent, is:—

1. As a new article of manufacture, a pipe hanger comprised of a single piece of sheet metal, bent to form angularly disposed elements, one of said elements constituting an offset base, a plurality of parallel openings extending in from the edge of the other of said elements, said openings each terminating in a plurality of curved depressions, each receptive of a pipe whereby two or more vertical rows of pipes may be supported.

2. As a new article of manufacture a pipe hanger comprising a plate having inwardly and downwardly extending slots in one edge and a bar secured to said plate adapted to divide the slots into two portions each capable of receiving a pipe therein.

In testimony whereof I have signed my name to this specification.

ISREAL RAUCH.

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