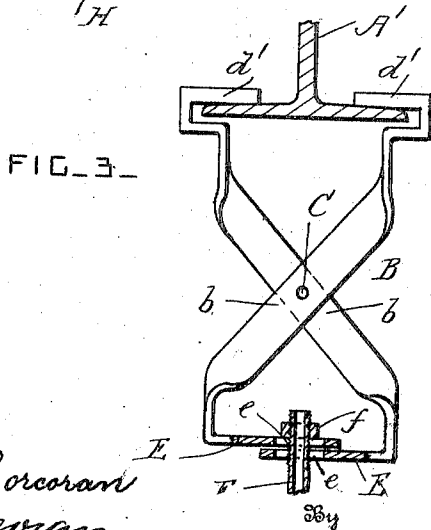
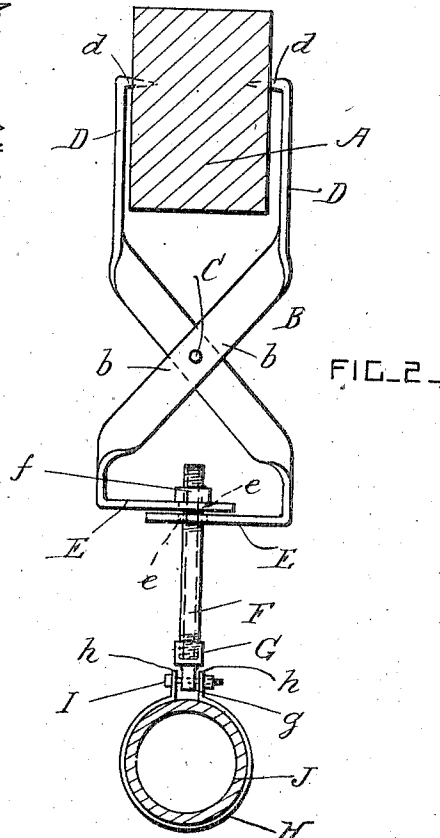
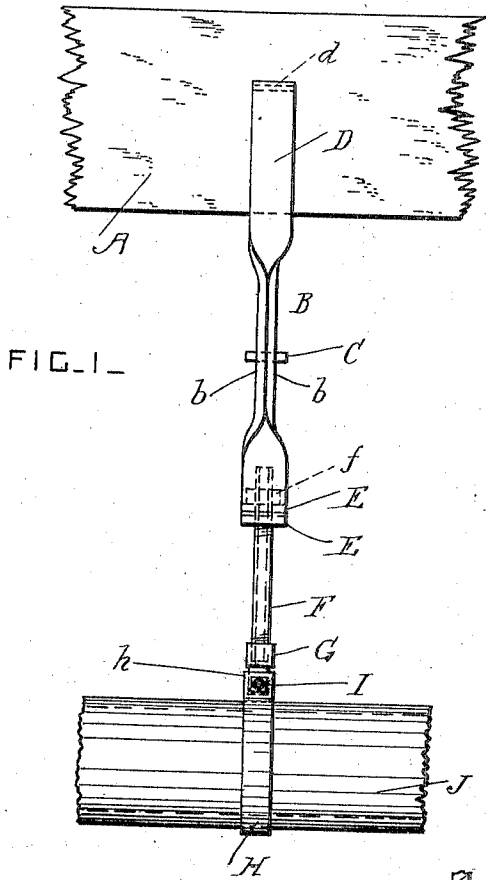


E. WILLIAMS.
PIPE HANGER.
APPLICATION FILED JUNE 21, 1909.

950,978.

Patented Mar. 1, 1910.



Witnesses
Harry J. Corcoran
E. B. Corcoran

Inventor
Earl Williams.
Herbert W. Jenner.
Attorney

UNITED STATES PATENT OFFICE.

EARL WILLIAMS, OF GREENCASTLE, INDIANA.

PIPE-HANGER.

950,978.

Specification of Letters Patent.

Patented Mar. 1, 1910.

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To all whom it may concern:

Be it known that I, EARL WILLIAMS, a citizen of the United States, residing at Greencastle, in the county of Putnam and State of Indiana, have invented certain new and useful Improvements in Pipe-Hangers; and I do 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 appertains to make and use the same.

This invention relates to hangers for pipes and other similar objects; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view of the hanger showing it applied to a wooden beam. Fig. 2 is a front view of the same. Fig. 3 is a front view of the upper part of the hanger showing it modified so as to engage with a metal beam.

A is a wooden beam or joist. The upper part of the hanger is formed of two crossed arms B connected together at their middle and flat portions *b* by a pivot-pin C. The upper end portions D of the arms B are twisted to form a right-angle with their middle portions *b* and are arranged parallel to each other and terminate in laterally projecting spikes *d*. The points of the spikes project toward each other and are pressed or driven into the wood of the beam A. The lower end portions E of the arms B are twisted to form a right-angle with their middle portions *b*, and are bent around and arranged so that they overlap each other. The end portions E are provided with holes *e* which register with each other when the arms are secured to the beam.

F is a short pipe or tubular rod which is passed through the holes *e*, and *f* is an adjusting-nut screwed on the upper portion of the pipe F and supporting the pipe F from the parts E. The lower end portion of the pipe F is provided with a cap G having a downwardly projecting lug *g*.

H is a band of flexible metal having lugs *h* at its ends, and I is a pivot bolt which passes through holes in the lugs *g* and *h*, and which clamps the band H on a pipe J

or other similar object to be supported from the beam.

In the modification shown in Fig. 3, the crossed arms B are provided with blunt hooks *d'* at their upper ends instead of spikes *d*. These blunt hooks *d'* engage with the lower flanges of a metal beam A' into which spikes could not be driven. The loose connection of the rod F, and the pivotal connection of the bolt I permit the pipe J to expand and contract, and to move in many directions. This hanger is very cheaply constructed, and is found to be very efficient in action.

What I claim is:

1. In a hanger, the combination, with two crossed and pivoted arms having projections at their upper ends for engaging with a beam, said arms having also overlapping projections at their lower ends having holes which register with each other when the arms are secured to a beam, of a rod which engages loosely with the said holes and is free to swing in all directions, a nut secured on the upper part of the said rod and supporting it from the said overlapping projections, and means for supporting a heavy object from the lower end of the said rod.

2. In a hanger, the combination, with two crossed and pivoted arms having their upper and lower end portions twisted to form a right-angle with their middle portions, the said upper end portions having projections for engaging with a beam, and the said lower end portions being arranged to overlap each other and having holes which register with each other; of a rod which engages loosely with the said holes, a nut on the upper end portion of the said rod and supporting it from the lower end portions of the said arms and permitting the rod to swing freely in all directions, and means for connecting a heavy object to the said rod.

In testimony whereof I have affixed my signature in the presence of two witnesses.

EARL WILLIAMS.

Witnesses:

GEO. M. WILSON,
C. C. GILLEN.