

I. F. PENNIMAN.  
PIPE HANGER.  
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1,124,648.

Patented Jan. 12, 1915.

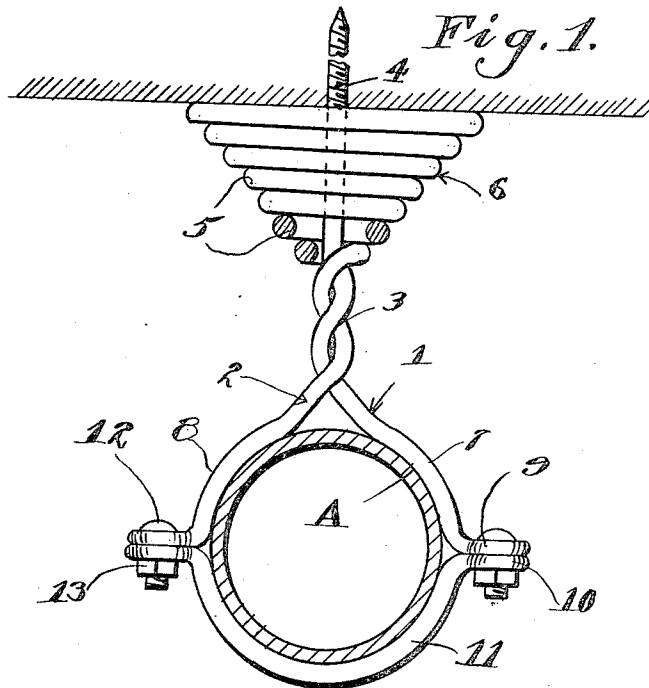
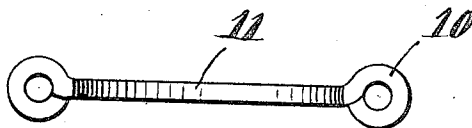


Fig. 2.



Witnesses  
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By A. B. Kuntz, Jr. Attorney

# UNITED STATES PATENT OFFICE.

IRA F. PENNIMAN, OF NEEDHAM, MASSACHUSETTS.

## PIPE-HANGER.

1,124,648.

Specification of Letters Patent. Patented Jan. 12, 1915.

Application filed June 15, 1914. Serial No. 845,214.

*To all whom it may concern:*

Be it known that I, IRA F. PENNIMAN, a citizen of the United States, residing at Needham, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Pipe-Hangers, of which the following is a specification.

My invention relates to improvements in devices for supporting or hanging pipe and resides in the provision of a simple and inexpensive device by means of which a pipe may be supported or suspended from a wall or ceiling in spaced relation to said wall or ceiling in a reliable manner.

Another object is to provide a hanger of the kind described that is constructed of few parts and which may be readily assembled and disassembled and also arranged to hang up a pipe.

The above and additional objects are accomplished by such means as are illustrated in the accompanying drawings, described in the following specification and then more particularly pointed out as claimed.

With reference to the drawings, wherein I have illustrated the preferred embodiment of my invention as it is reduced to practice, and throughout the several views of which similar reference numerals designate corresponding parts.

Figure 1 is a side elevation of my improved hanger showing it attached to a ceiling and a pipe held in place and in sections, certain parts of my device being broken away for the sake of clearness, and Fig. 2 is a detail top plan view of the side circular supporting bracket.

Referring to the drawings by characters of reference, the numerals 1 and 2 designate lengths of suitably stiff wire adjacent the main or body part of my device as shown, said wires being twisted about one another intermediate their ends to provide a shank 3. The wire 1 is extended from the upper end of the shank to provide a securing member 4 which is screw threaded and pointed adjacent to its outer end.

From the inner end of the shank 3, the wire 2 is twisted to provide a number of circular coils 5 and extends in a plane at right angles to the shank and increased in diameter or circumference toward the free end of the member 4, the coil that is fixed adjacent the inner end of the shank 3 being smaller and the others increasing in size so

that an approximately frusto-conical body 6 is provided. The innermost or larger coil 6 is designed to engage the wall or ceiling as the case may be, and surrounds and is spaced from the pointed and threaded end of the member 4, so that said member 4 may be inserted sufficiently far into a wall or ceiling to support the device. All of the coils 5 surround the member 4, said member being positioned between the center of the coil. It will be readily seen that a comparatively large bearing surface is provided by the coils or body 6 and the strain on the member is lessened for this reason.

From the outer end of the shank 3, the wires 1 and 2 are extended in divergent planes and provide disposed clamping arms 7 and 8 which arms are formed intermediate their ends so as to conform to the curvature of a cylindrical pipe A. Right angularly and outwardly extending eyes 9 are formed on the free ends of the arms 7 and 8 and are designed to cooperate with similarly formed eyes 10 of the ends of a U-shaped or semi-circular wire bracket 11 which is formed of the same material as the wires 1 and 2 and designed to engage the outer face of the pipe A when said pipe is to be supported or suspended. To hold the brackets 11 in clamping relation to the pipe A, I provide the bolts 12 that are inserted through the eyes 9 and 10 that have nuts 13 turned on their unheaded terminals. The clamping of the pipe A and releasing thereof may be readily effected through the medium of the bolts 12 and nuts 13. When it is desired to support a pipe close to a wall or ceiling one or more of the coils 6 may be cut off to provide such arrangement. The coils 5 closely engage one another so that a comparatively rigid body is provided and when it is desired to have the device angularly disposed with relation to the wall or ceiling the coil that is to engage the wall or ceiling may be bent angularly.

In practice, I have found that the form of my invention, illustrated in the drawings and referred to in the above description, as the preferred embodiment, is the most efficient and practical; yet realizing that the conditions concurrent with the adoption of my device will necessarily vary, I desire to emphasize the fact that various minor changes in details of construction, proportion and arrangement of parts may be resorted to, when required without sac-

rificing any of the advantages of my invention, as set forth.

What is claimed is:—

1. A pipe hanger consisting of a pair of  
5 wire lengths twisted about one another to  
provide a straight shank, one of the wires  
extended from the shank and formed into  
a number of circular coils extended at right  
10 angles to the shank and increasing in cir-  
cumference away from the shank to provide  
a frusto conical body, the other of the wires  
being extended from the shank through the  
coils and beyond the outermost coil and  
15 pointed and threaded at its ends, and the  
lower ends of the wire lengths being di-  
verged to provide pipe engaging arms and  
means to partially surround a pipe to be  
secured to said arms to support a pipe upon  
a hanger.

2. A pipe hanger consisting of an ap-  
20 proximately frusto-conical body engaged to  
the wall, ceiling or object to which the  
hanger is secured at its larger end, a secur-  
ing member, a shank formed on the apex  
25 end of the body extending outwardly there-  
from, said securing member formed on the  
inner end of the shank, extending through  
and beyond the body and being pointed and  
threaded at its outer end, clamping arms  
30 carried by the shank to engage a pipe, a  
bracket to cooperate with the clamping arm  
in securing a pipe and means to secure the  
bracket to the arms.

3. A pipe hanger consisting of a pair of  
35 wire lengths twisted about one another in-  
termediate their ends provided with shanks,  
one of the wires being extended from the  
shank and being bent into a number of cir-  
cular coils extending at right angles to the  
40 shank and each coil being larger than the

other, the smaller coil next adjacent to the  
shank, the larger coil to engage the ceiling  
or wall or like object to which the device is  
to be secured, the other wire being extended  
45 from that end of the shank at which the  
smaller coil is formed through all of the  
coils and beyond the outer larger coil, said  
wire being threaded and pointed at its free  
end, the wires being extended from the other  
50 end of the shank in divergent planes and to  
provide clamping arms, said clamping arms  
being bowed intermediate their ends to con-  
form to the curvature of a pipe to be se-  
cured, outwardly and right angularly ex-  
55 tending eyes on the free ends of the clamp-  
ing arms, a U-shaped bracket to cooperate  
the clamping arms in securing a pipe, right  
angularly extending eyes extended out-  
wardly from the free ends of the bracket  
and formed integral therewith, bolts insert-  
60 ed through the eyes and nuts turned on the  
unheaded terminals of the bolts.

4. A pipe hanger consisting of a pair of  
wires being twisted about each other inter-  
65 mediate their ends to provide a shank, one  
of the wires being extended from one end  
of the shank and bent into a number of cir-  
cular coils and increased in circumference  
toward the free end of said wire, the other  
70 of said wires being extended through the  
coils at one end and having a certain end  
threaded and pointed, clamping arms at the  
other end of the shank to cooperate with the  
clamping arms to support a pipe.

In testimony whereof I affix my signature 75  
in presence of two witnesses.

IRA F. PENNIMAN.

Witnesses:

WILLIAM G. MOSELEY,  
MARY E. MOSELEY.