No. 624,671. Patented May 9, 1899.

S. O'BRIEN.

PIPE HANGER.

(Application filed Aug. 9, 1898.)

(No Model.)

Fig: 1.

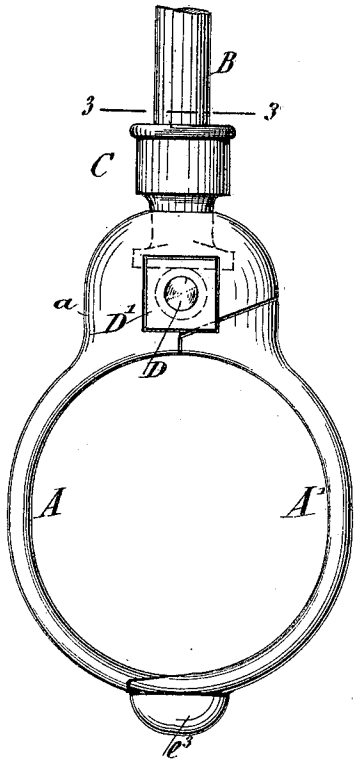


Fig: 2.

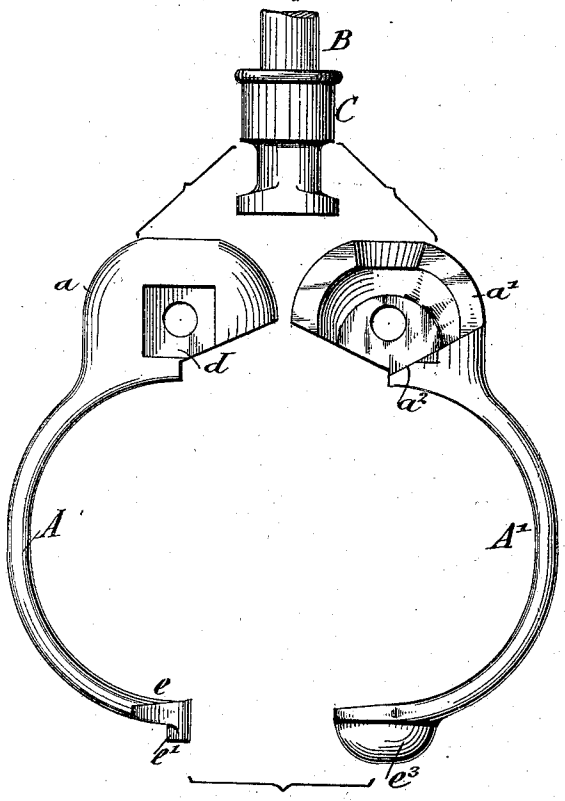


Fig: 3.

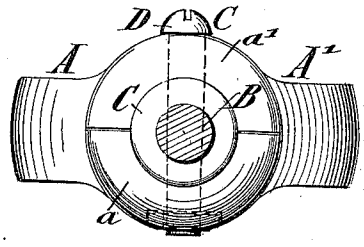


Fig: 4.

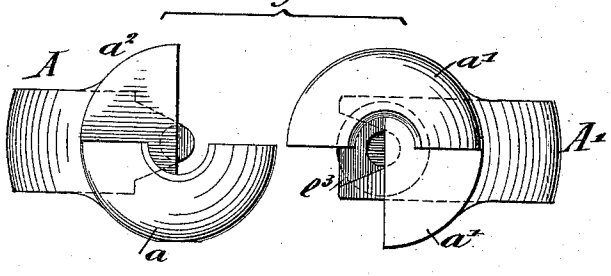
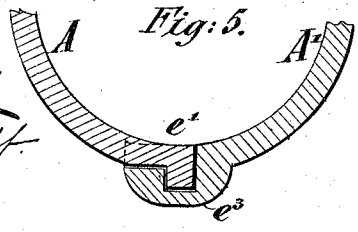


Fig: 5.



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PIPE-HANGER.

SPECIFICATION forming part of Letters Patent No. 624,671, dated May 9, 1899.

Application filed August 9, 1898. Serial No. 688,151. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN O'BRIEN, a citizen of the United States, residing at New York, in the borough of Manhattan and State of New York, have invented certain new and useful Improvements in Pipe-Hangers, of which the following is a specification.

This invention relates to pipe-hangers of that class in which a loop or stirrup is suspended from the end of a suitable bolt that is screwed into the ceiling or other place from which the pipe is to be suspended, while the loop is made of two separate detachable pieces that can be readily detached from each other and assembled for suspension from the hanger-bolt.

My invention consists of a pipe-hanger which comprises a loop or stirrup formed of two interlocking or detachable pieces or semisections, which are provided at the upper end with hollow hemispherical sections that are fitted onto the T-shaped end of the hanger-bolt and connected by a transverse bolt and countersunk nut. The lower ends of the semisections of the loop or stirrup are connected by a tongue and pin at the end of one semisection and a recess and socket in the end of the other section, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of my improved pipe-hanger. Fig. 2 is a side elevation showing the parts of my hanger in position as detached from each other. Fig. 3 is a plan view, partly in horizontal section, on line 3 3, Fig. 1. Fig. 4 is a top view of the separate hanger-sections shown in Fig. 2, and Fig. 5 is a detail vertical transverse section of the connection of the lower ends of the hanger-sections.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A A′ represent the two interlocking sections of my improved pipe-hanger. The two sections A A′ form together the loop or stirrup through which the pipe that is to be sustained is passed. Each section is made of a curved portion and provided with a hollow head at its upper end, said heads a a' being made of hemispherical shape and provided with inclined shoulders a^2 sidewise of said heads, over which the inclined lower parts of the hollow heads fit, as shown clearly in Figs. 1 and 2. The hollow heads are provided with semicircular recesses, through which the shank of the lower T-shaped end of the hanger-bolt socket C is passed.

The hanger-bolt or suspension-bolt B may be made either in one piece, with a T-shaped head, or it may be screwed into a socket C, as shown in the drawings.

The hollow hemispherical heads of the hanger-sections A A′ are connected by a transverse bolt D, the head of which is made square, so as to be turned by a wrench, or provided with a slot for turning with a screw-driver and the nut D′ of which is set into a recess d in the head of the hanger-section A, as shown in Fig. 1. By arranging the nut in the recess or countersink of the head the square nut is retained, so that the bolt can be readily screwed into the same for fastening the heads of the hanger-sections together. The screw-bolt extends transversely through the hollow heads of the hanger-sections and passes below the T-shaped head of the hanger-bolt socket C. The lower ends of the hanger-sections are also made interlocking with each other, the interlocking being accomplished by a tapering tongue e and pin e' at the lower end of the hanger-section A and a recess and socket e^2 e^3 at the lower end of the hanger-section A′, as shown in Fig. 2 and in section in Fig. 5.

When the hanger-sections are to be placed in position around the pipe to be supported, the pin at the lower end of one hanger-section is placed in the socket at the end of the other hanger-section. The hemispherical heads of the hanger-sections are then brought together at the upper end and held in position by screwing the screw-bolt transversely through the heads of the same. The screw bolt and nut hold the hanger-sections firmly together, so as to prevent them from becoming detached from each other, so that the pipe is firmly and reliably held by the hanger.

My improved pipe-hanger consists only of four parts—namely, the two main sections, the bolt, and screw-nut. The hanger-sections are cast integral with the heads and interlocking devices at their lower ends and require very little finishing after being taken from the molds. As the hanger-sections are made of cast metal, the hanger can be made

at a comparatively low price, while it has the advantage that it can be turned freely on the head of the suspending screw-bolt, so as to turn in any direction, according to the direction of the pipe to be supported. By turning the socket which is applied to the hanger-bolt the hanger may be raised or lowered sufficiently to take up any slack if the hanger is too low to permit the pipe to rest upon it or to permit the pipe to be lowered so that its weight shall be evenly distributed upon all the pipe-hangers which support it. Another advantage is that by partly unscrewing the bolt, but without detaching it from the square screw-nut, the heads of the hanger-sections can be spread apart sufficiently to permit the detaching of the hanger from the suspension-bolt without taking the hanger-sections apart. By this arrangement none of the parts can be lost when it is necessary to take down the pipe or change the direction of the same. It also preserves the center of the hanger, so that the pipe can be readily suspended again and without any loss of time for adjustment.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A pipe-hanger, consisting of a loop or stirrup formed of two sections provided with interlocking means at the lower ends and hollow heads, a suspension-bolt having a T-shaped head located in the upper part of said hollow heads, and a transverse screw-bolt passing through the lower part of said heads below the T-shaped head of the suspension-bolt, substantially as set forth.

2. In a pipe-hanger, the combination, with two hanger-sections, one provided with a tapering tongue and pin and the other with a tapering recess and socket interlocking with the tongue and pin, and having hollow heads and inclined shoulders adjacent to said heads, of a suspension-bolt having a T-shaped head, and means for connecting the heads of said sections transversely so as to retain them on the T-shaped head of the suspension-bolt, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

STEPHEN O'BRIEN.

Witnesses:
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