

No. 649,270.

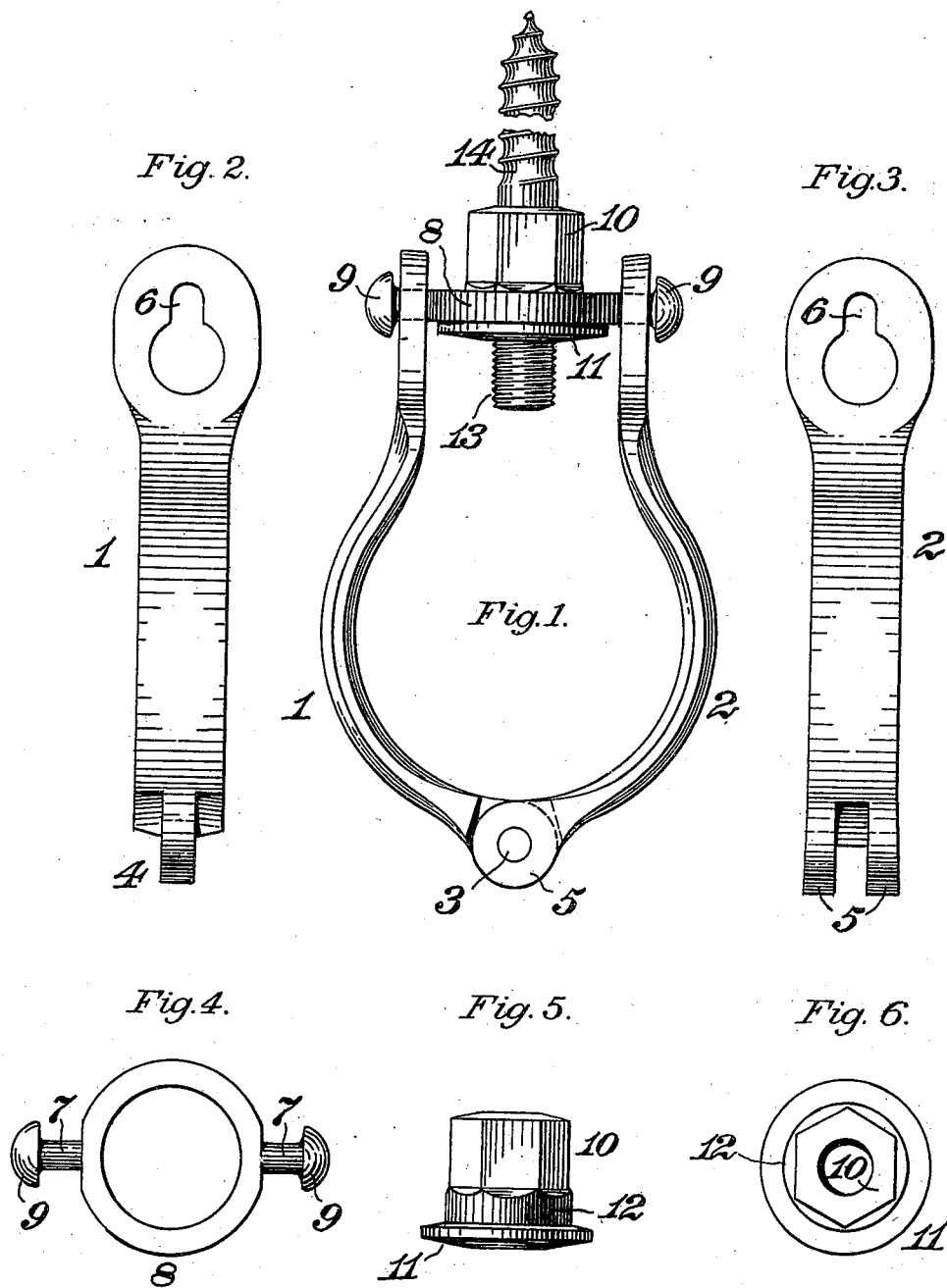
Patented May 8, 1900.

H. S. COLLINS.

PIPE HANGER.

(Application filed Mar. 10, 1899.)

(No Model.)



Witnesses:

James C. Herrow.
S. R. Bell.

Inventor:

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att'y.

UNITED STATES PATENT OFFICE.

HARRY S. COLLINS, OF PITTSBURG, PENNSYLVANIA.

PIPE-HANGER.

SPECIFICATION forming part of Letters Patent No. 649,270, dated May 8, 1900.

Application filed March 10, 1899. Serial No. 708,618. (No model.)

To all whom it may concern:

Be it known that I, HARRY S. COLLINS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a certain new and useful Improvement in Pipe-Hangers, of which improvement the following is a specification.

The object of my invention is to provide a simple, effective, and inexpensive appliance for suspending a pipe in such manner that the pipe may be raised and lowered to afford any desired vertical adjustment and be capable of lateral and longitudinal adjustment, either manually or under the influence of expansion or contraction, without removal from its support and without imposing undue or abnormal strain thereon.

The improvement claimed is hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a view in elevation of a pipe-hanger embodying my invention; Figs. 2 and 3, similar views of the two sections of the stirrup or strap; Fig. 4, a plan view of the collar; Fig. 5, a side view of the adjusting-nut, and Fig. 6 a plan or top view of the same.

In the practice of my invention I provide a two-part or divided stirrup or strap composed of two halves or sections 1 2, the lower portions of which are curved in substantial conformity with the circumference of the largest pipe which the hanger is designed to support and which are hinged or pivoted together at their lower ends by a pin 3, passing through a lug 4 on one of the sections and a pair of similar lugs 5 on the other section. Sockets 6, the upper ends of which are semicylindrical, are formed in the upper ends of the stirrup-sections, said sockets being enlarged at their bottoms to enable the sections to be passed over the heads of supporting-pins, to be presently described.

The stirrup-sections 1 2 when hinged together receive between them the pipe which is to be supported and extend upwardly on opposite sides thereof, the sockets 6 at their upper ends engaging and being suspended from supporting pins or trunnions 7, which project in line diametrically from a ring or collar 8 and are provided with heads 9 on their outer ends. An adjusting-nut 10 passes freely through the collar 8 and is provided at

its lower end with a flange 11 of greater diameter than the opening in said collar. A cylindrical face 12, of such diameter as to fit loosely within the collar, is formed on the nut 10 above its lower flange 11, the depth of said face being about equal to or slightly greater than the thickness of the collar.

The adjusting-nut 10 is internally threaded to engage an external thread 13 on the lower end of a lag-screw 14, which is screwed into a beam or other horizontal member of the building or apparatus in which the appliance is located and by its rotation in one or the other direction on the screw 14 serves to raise or lower the hanger and the pipe supported thereon, as may be desired.

In operation, the stirrup-sections having been hinged together and the pipe inserted between them, the enlargements of their sockets 6 are slipped over the heads 9 of the supporting pins or trunnions 7 and the upper ends of the sockets are engaged with said pins, the heads 9 of which prevent the displacement of the stirrup-sections. The adjusting-nut 10 is then slipped through the collar 8, its lower flange 11 supporting the collar and the stirrup and pipe suspended therefrom, and is screwed up to the proper point on the lag-screw 14, upon which the hanger and pipe are adjustably supported by the engagement of the nut and lag-screw.

It will be seen that by the above construction, which involves only a small number of simple and inexpensively-fitted parts, the suspension and removal of a pipe may be readily effected and that it may be adjusted vertically as desired and be free to accommodate itself to changes of position due to variations of temperature or disturbance of the normal relation of the portions of the structure with which the appliance is connected.

I claim as my invention and desire to secure by Letters Patent—

1. In a pipe-hanger, the combination, substantially as set forth, of two stirrup-sections which are pivoted one to the other at their lower ends and provided with sockets near their upper ends, a ring or collar having peripheral supporting pins or trunnions adapted to engage the sockets of the stirrup-sections, and a nut fitting freely in said collar

and provided with a lower flange of greater diameter than the opening of the collar and with an internal thread to engage a supporting-screw.

- 5 2. In a pipe-hanger, the combination, substantially as set forth, of two stirrup-sections which are pivoted one to the other at their inner ends and provided with sockets near their upper ends, a ring or collar having peripheral supporting pins or trunnions adapted to engage the sockets of the stirrup-sections, and a nut having a lower flange of greater diameter than the opening of the collar and an adjacent cylindrical surface fitting
10 freely in said opening, said nut being provided with an internal thread to engage a supporting-screw.

3. In a pipe-hanger, the combination, substantially as set forth, of two stirrup-sections,

each provided with a socket near its upper end, the bottom of which is enlarged to pass over the head of a supporting-trunnion, a pin or pivot by which the stirrup-sections are hinged together at their lower ends, a ring or collar having peripheral supporting-trunnions adapted to engage the sockets of the stirrup-sections, heads on the outer ends of said trunnions which are of greater diameter than the sockets and are adapted to pass through the enlargements thereof, and a nut fitting freely in the ring or collar and provided with a lower flange of greater diameter than the opening of the collar and with an internal thread to engage a supporting-screw.

H. S. COLLINS.

Witnesses:

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JOHN A. MURPHY.