(No Model.)

R. W. CLARK.

PIPE HANGER.

No. 545,774. Patented Sept. 3, 1895.

Fig. 1.

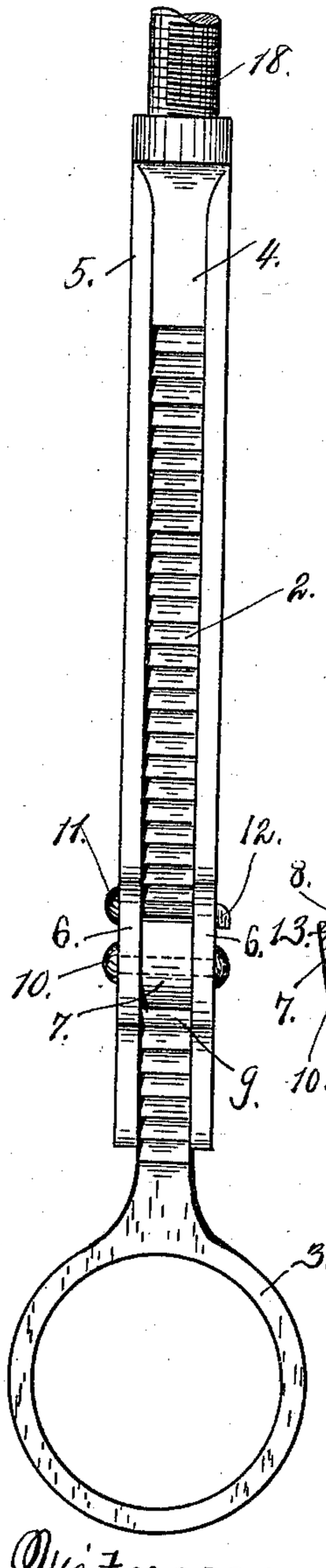


Fig. 2.

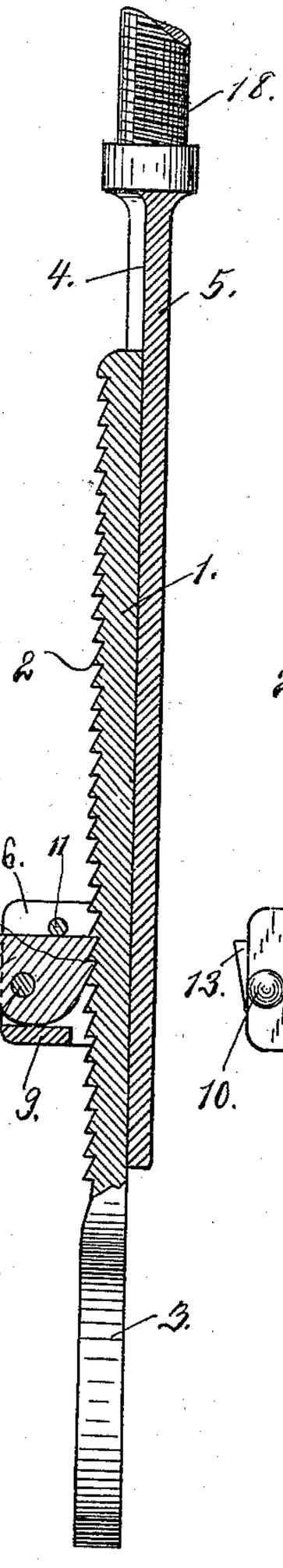


Fig. 3.

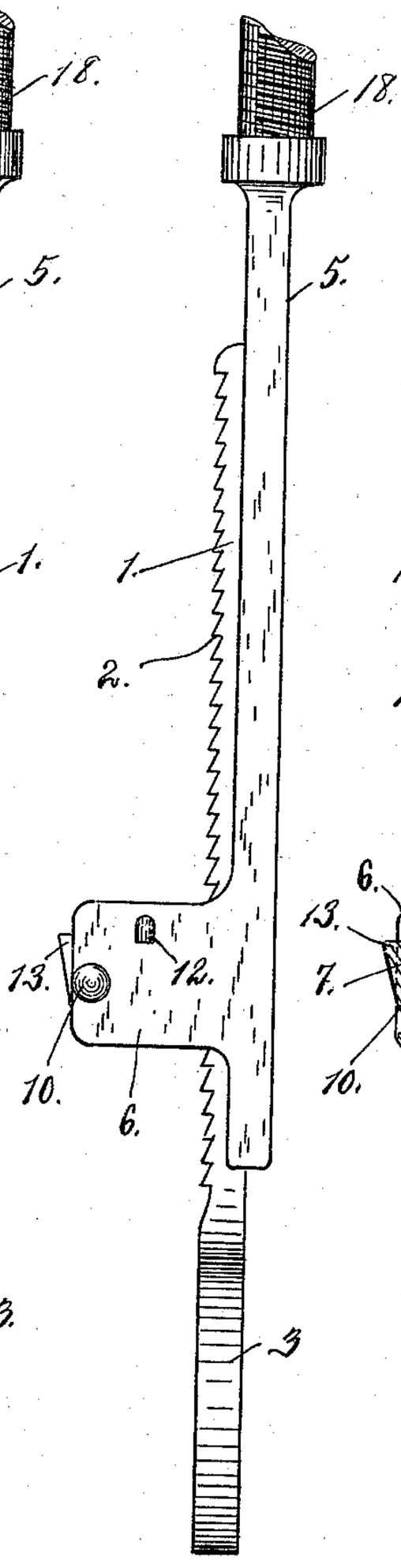


Fig. 4.

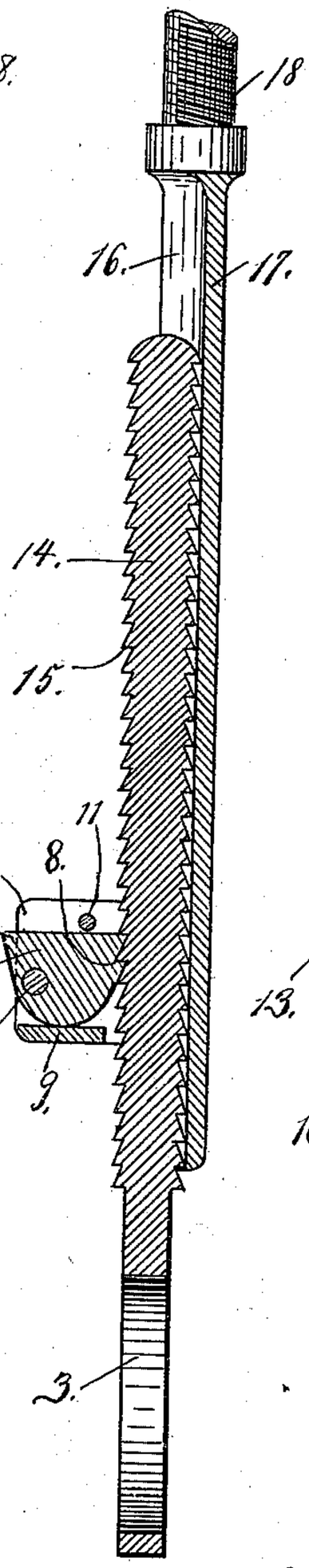
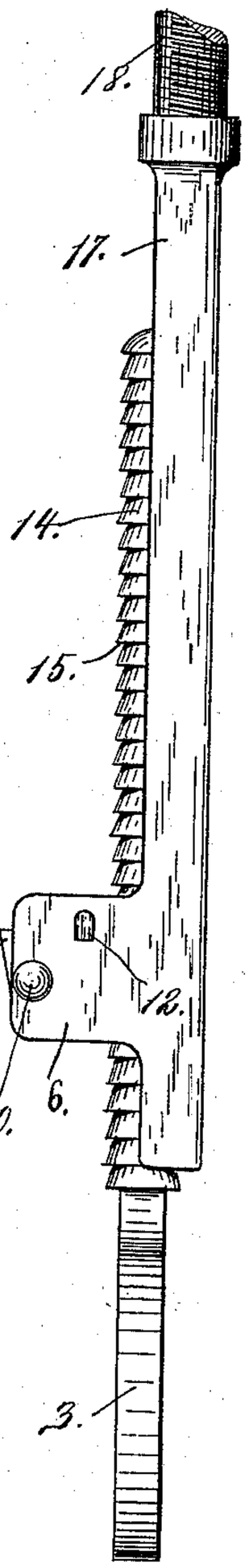


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

ROBERT W. CLARK, OF BUFFALO, NEW YORK, ASSIGNOR TO DANIEL CLARK, OF SAME PLACE.

PIPE-HANGER.

SPECIFICATION forming part of Letters Patent No. 545,774, dated September 3, 1895.

Application filed March 21, 1895. Serial No. 542,624. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. CLARK, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Pipe-Hangers; and I do hereby 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, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

My invention is an improvement in hangers for steam and other pipes, its object being to provide a hanger which can be readily adjusted as to length and which can be firmly secured in such adjusted position.

To that end my invention consists of a certain novel construction and arrangement of parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a front elevation of my improved hanger provided with a rectangular ratchet-bar. Fig. 2 is a partial central vertical section of Fig. 1. Fig. 3 is a side elevation of Fig. 1. Fig. 4 is a central vertical section of a hanger with cylindrical rack-bar, and Fig. 5 is a side elevation of the hanger shown in Fig. 4.

Referring to the drawings and particularly to Figs. 1, 2, and 3, the rack-bar 1 is shown as rectangular, having on its outside face a series of teeth 2 extending its entire length. The lower end of the rack-bar is provided with the integral ring 3, adapted for the reception of the steam or other pipe to be suspended. The rack-bar 2 is adapted to be reciprocated in the rectangular vertical channel 4 of the elongated bracket 5. Two similar wings 6 6, integral with the bracket 5, extend out from the same on either side of the vertical channel 4. These wings are located a short distance above the lower end of the bracket 4 and have eccentrically pivoted between them the gravity-pawl 7, adapted for engagement with the teeth 2 of the rack-bar 1. For additional security the inner contacting-face of the pawl is notched, as at 8, in order that the pawl may have engagement with more than one tooth of the rack-bar. A floor 9 extends across the lower ends of the wings 6 6, against which the lower edge of the pawl 7 rests when in engagement with the rack-bar, which has the effect of relieving the pivot-pin 10 of the pawl 7 from undue strain occasioned by the supporting of very heavy pipe. After the rack-bar has been adjusted to the proper height the engaging-pawl 7 is locked by inserting the headed pin 11 through orifices in the wings 6 6 just above the top edge of the pawl and bending over the protruding end of the pin, as at 12.

To adjust the rack-bar 1 to its proper height in the bracket, the parts are manipulated as follows: If the rack-bar is too low it is simply pushed up, the gravity-pawl swinging up on its pivot to permit the upward passage of the rack-bar between it and the bracket. When the proper point is reached the pawl will fall back by its own weight into engagement with the rack-bar, in which position it can be locked by the pin 11. If it is necessary to lower the rack-bar in its bracket, the pawl is lifted out of engagement with the rack-bar by pressing down upon its protruding end 13, thus permitting the rack-bar to be lowered the required distance. On releasing the pawl it will drop into engagement with the rack-bar and is locked by the pin 11, as before.

In Figs. 4 and 5 I have shown a cylindrical rack-bar 14, provided with annular teeth 15, instead of the rectangular rack-bar shown in the other figures. This rack-bar 14 is adjustable in a semicircular vertical channel 16 in the bracket 17 and permits the ring 3 to be turned in any direction while the pawl is in engagement therewith. The brackets 5 and 17 can be secured to the ceiling in any well-known manner, screw-threaded upper ends 18 being herein shown as the means employed.

My improved hanger, as will be seen, is of simple and inexpensive construction, is thoroughly reliable in its action, and the adjustment of its parts is readily and quickly effected.

I claim—

1. A hanger for steam or other pipes consisting of a vertically channeled bracket adapted to be secured to the ceiling, a rack-bar adapted for sliding adjustment in the vertical channel of the bracket and carrying at

its lower ends means for embracing the pipe wings formed on said bracket near its lower end, a gravity-pawl pivoted between said wings of the bracket outside of the vertical channel and adapted for adjustable engagement with the rack-bar and a pin removably passing through said wings above the operative end of the pawl and having one end provided with a head and its other end bent against the outer face of the adjacent wing, as and for the purpose set forth.

2. A hanger for steam or other pipes consisting of a vertically channeled bracket adapted to be secured to the ceiling a rack-bar adapted for sliding adjustment in the vertical channel of the bracket and carrying at its lower end means for embracing the pipe, a gravity-pawl pivoted to the bracket outside of the vertical channel and adapted for adjustable engagement with the rack-bar and means for locking the pawl in its engaged position with the rack-bar.

3. A hanger for steam or other pipes consisting of a vertically channeled bracket adapted to be secured to the ceiling a cylindrical rack-bar provided with annular teeth and adapted for sliding and rotary adjustment in the vertical channel of the bracket and carrying at its lower end means for embracing the pipe, and means for keeping the rack-bar in locked engagement with the bracket at different heights.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT W. CLARK.

Witnesses:
W. T. MILLER,
T. P. KRISTENS.