(No Model.)

C. C. LOCKSTAEDT.

HANGER.

No. 494,148. Patented Mar. 28, 1893.

Fig. 1.

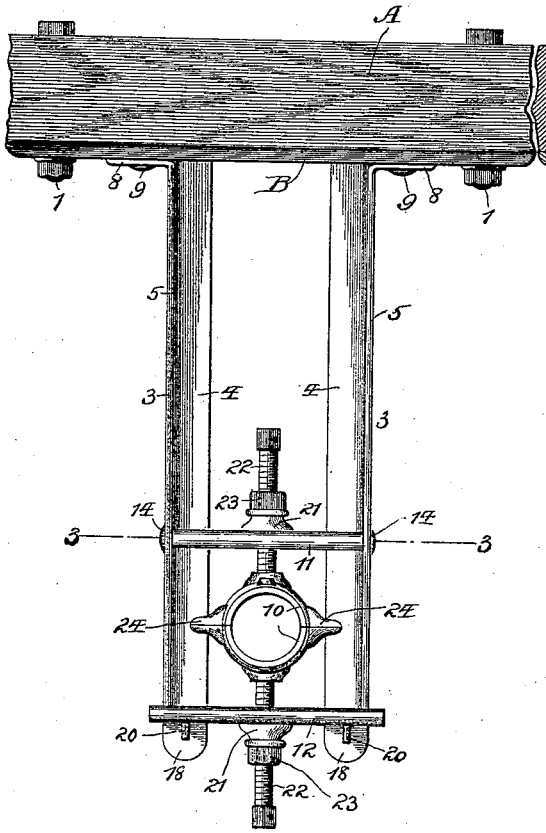


Fig. 2.

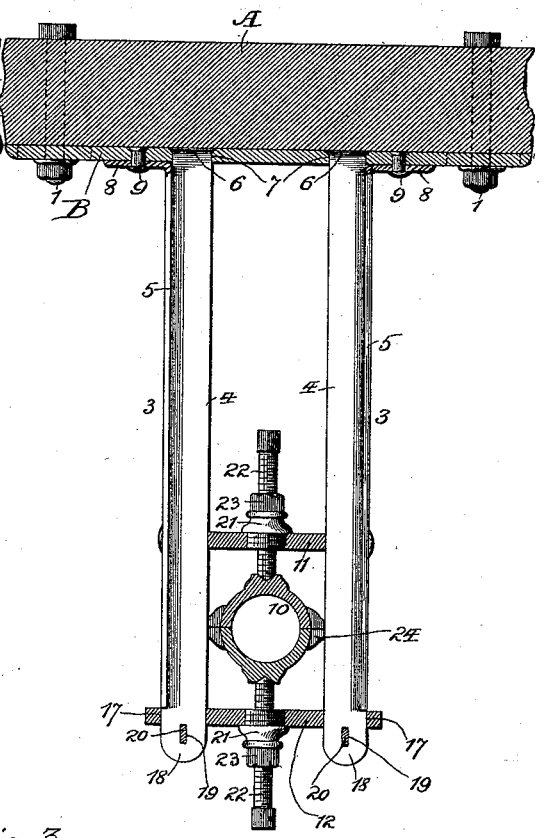


Fig. 3.

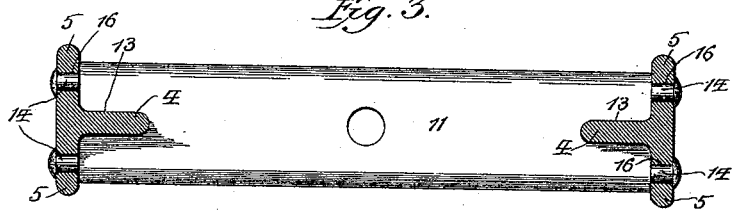
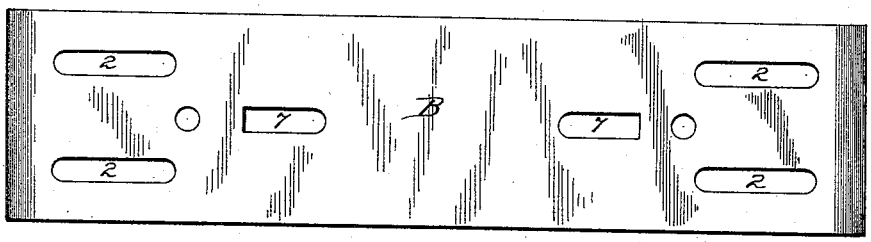


Fig. 4.



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HANGER.

SPECIFICATION forming part of Letters Patent No. 494,148, dated March 28, 1893.

Application filed September 13, 1892. Serial No. 445,811. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. LOCKSTAEDT, a subject of the Emperor of Germany, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in 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.

This invention relates to a hanger for supporting the shafting of machinery, and more particularly to a hanger that is adapted to be attached to the ceiling of a machine shop or other room.

The object of this invention is to provide a device of this character of simple, durable, and inexpensive construction.

The invention consists in the features of construction and combinations of parts hereinafter fully described and specifically claimed.

In the accompanying drawings illustrating my invention,—Figure 1 is a front elevation of a hanger constructed in accordance with my invention, attached to a joist or beam. Fig. 2 is a vertical sectional view of the same partly in elevation. Fig. 3 is a horizontal cross section taken on the line 3—3 of Fig. 1, partly in plan with the hanger box and connected parts omitted. Fig. 4 is a plan view of the top supporting plate.

Referring now to said drawings, A indicates a joist or beam and B a flat plate adapted to be secured thereto by bolts 1 passing through slots 2 near each end of said plate and through said beam A. Secured to said plate B are two hanger-rods 3 that are parallel with each other and are conveniently made of sections of T-iron with the web portions 4 located adjacent and in alignment with each other. The said hanger-rods 3 are secured to the plate B by bending the flanges 5 of said hanger-rods outwardly at right angles to the main portion of the same, so as to leave a projection 6 at the end of the hanger rods, which projection 6 is riveted within a slot 7 in said plate B, while the bent portion 8 of the flanges 5 is secured against the face of the plate B by bolts or rivets 9. Each of the hanger-rods 3 is secured to the plate in this manner and opposite each other, so that their webs 4 will be in alignment as shown in Fig. 3.

The hanger-box 10 is held between an upper cross piece 11 and a lower cross piece 12 secured to said hanger-rods 3. The upper cross piece 11 consists of a straight plate of such a length as to fit between the inner faces of the flanges 5, and is notched at its ends, as shown at 13, to receive the said webs 4. Upon the ends of the cross piece 11 are the projections 14 which pass through openings or perforations 16 in said flanges 5 and are riveted on the outside of the same to provide a strong and rigid connection between the cross piece 11 and said hanger-rods 3. The lower cross piece 12 consists of a rectangular plate having slots 17 in its end portions which receive the lower end portions 18 of the hanger-rods, the flanges 5 of said hanger rods being cut away at the lower end portion of the same, as shown in Figs. 1 and 2. Key-seats 19 are made in the lower end portion 18 of the hanger-rods, so that when keys 20 are inserted therein they will hold the lower cross piece 12 firmly against the lower ends of the flanges 5, as shown.

The cross pieces 11 and 12 are provided respectively on their upper and lower faces with boxes 21 having screw-threaded openings therethrough for the passage of screw-threaded rods 22 which engage sockets on the upper and lower faces of the hanger-box 10, and it will be seen that by adjusting the screw rods 22 the location of the hanger-box can be controlled, and by means of the jam nuts 23 said screw rods can be held in their adjusted position. The hanger-box is provided on both sides with the fingers 24 which provide guide fingers that engage the web 4 of the hanger-rods, and in this connection said web 4 acts as a guide for the hanger-box, as will be obvious.

It will, of course, be seen that various changes can be made in the construction of the several parts, without departing from the spirit of my invention, and it will be further noted that a ball and socket joint could also be used to connect the hanger-box with the parts by which it is supported.

The hanger comprises few parts, all of which are very simple and inexpensive con-

structions, and are joined together in a durable manner, thereby providing a durable and inexpensive hanger.

I claim as my invention—

1. A hanger comprising a plate B having slots 7 therein, two hanger-rods 3 each having a projection 6 on one end thereof adapted to be secured within said slots 7, lateral flanges 8 on the outer faces of said hanger-rod, said flanges 8 being secured to said plate B, and a hanger-box secured between the other ends of said hanger-rods.

2. A hanger comprising a plate B having slots 7 therein, hanger-rods 3 of T-iron having their flanges 5 bent outwardly at a point inward of the ends of the web 4 to provide projections 6 on the ends of said hanger-rods, said projections 6 being secured within the slots 7, and said outwardly bent portions of the flanges being secured to the face of said plate B, and a hanger-box secured between the other ends of said hanger-rods.

3. A hanger comprising a plate B, two parallel hanger-rods 3 secured thereto at one end, said hanger-rods being made of T-iron with their webs 4 adjacent to each other, a cross piece 11 having notched ends to receive said webs 4 located between said hanger-rods and having its ends secured to the flanges 5 thereof, a cross piece 12 secured to said hanger-rod adjacent to said cross piece 11, and a hanger-box secured between said cross pieces 11 and 12.

4. A hanger comprising a plate B, two parallel hanger-rods secured thereto at one end, said hanger-rods being made of T-iron with the webs thereof adjacent to each other, end portions 18 at the other ends of said hanger-rods projecting beyond the ends of the flanges 5 thereof, the cross piece 12 having slots therein to receive said projections 18, keys 20 passing through openings 19 in said end portions 18 to hold said cross piece 12 against the ends of said flanges 5, a cross piece 11 secured to said hanger-rods adjacent to said cross-piece 12, and a hanger-box secured between said cross pieces 11 and 12.

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

CHARLES C. LOCKSTAEDT.

Witnesses:
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