

G. V. Orton,
Shaft Hanger.
N^o 78,992. Patented June 16, 1868.

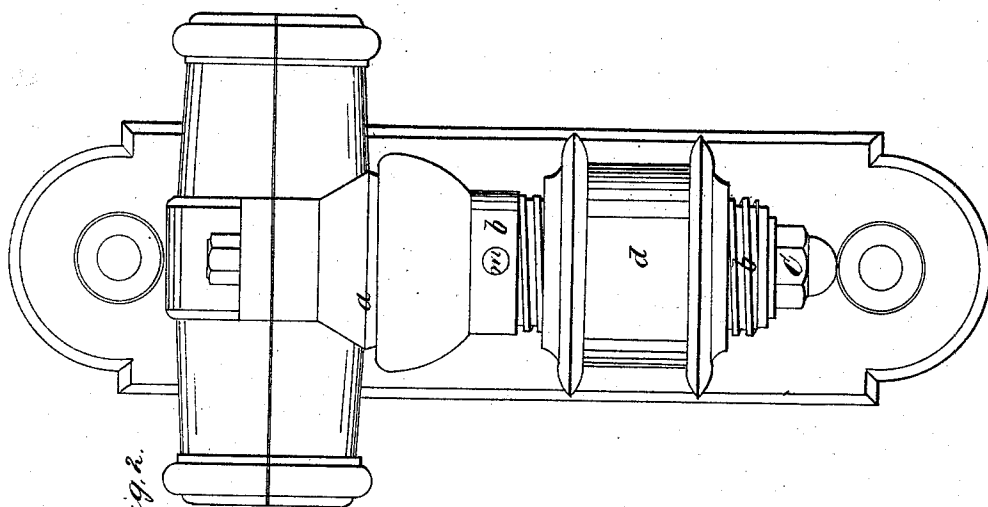


Fig. 2.

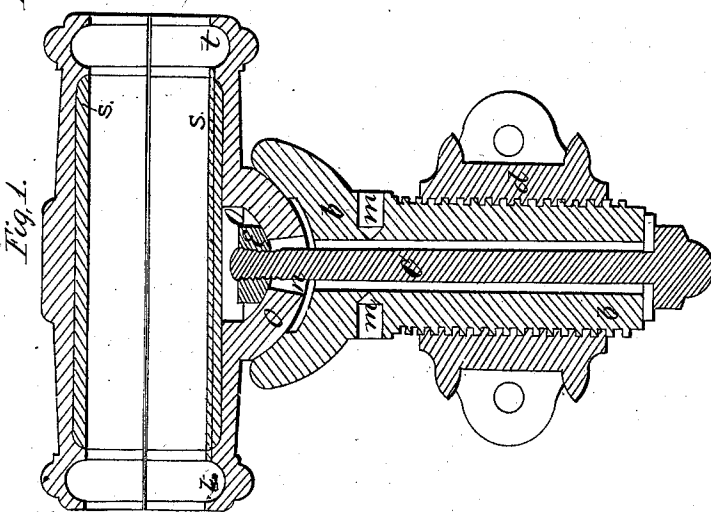


Fig. 1.

Witnesses
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Inventor
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United States Patent Office.

GERRIT V. ORTON, OF CINCINNATI, OHIO.

Letters Patent No. 78,992, dated June 16, 1868.

IMPROVEMENT IN HANGERS FOR SHAFTING.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GERRIT V. ORTON, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented certain new and valuable Improvements in Hangers for Shafting; and I do hereby declare the following to be a full and exact description of the same, reference being had to the drawings accompanying and forming a part of this specification, in which—

Figure 2 is a front elevation of a post hanger having my improvements affixed.

Figure 1 is a longitudinal vertical section through fig. 2, in the line of the shaft.

Similar letters of reference on the different figures indicate corresponding parts.

In hangers for shafting it is important that the boxes or bearings should be so mounted upon their supporting-brackets that the box can be adjusted to the line of the shaft when the main bracket is fixed in position, or, in other words, to pivot in all directions, to allow of such adjustment.

It is also necessary that the box or bearing should have an independent adjustment, to keep the shaft level without moving the main bracket.

To accomplish these objects in a simple manner is the object of the invention illustrated, and can be equally as well used on either drop, post, or bracket, or floor-hangers.

Its nature consists, first, in forming a spherical extension on the lower half of the box, to fit into a corresponding socket in a supporting-stem, and in so constructing the stem, with a thread on its exterior, that it can be revolved for adjusting the shaft in a vertical line, or otherwise, as may be desired.

Also, in a through-bolt for retaining the box in its seat, thereby accomplishing the same result with the half, or less than half, spherical joint, that has been heretofore accomplished with complete spheres or ball-and-socket joints.

To enable others skilled in the art to make and use my invention, I will proceed to describe it, and the manner of constructing the same, reference being had to the drawings, and letters of reference marked thereon.

The box is of ordinary construction, having the dripping-chambers A A, to retain oil. Upon its lower half is formed the spherical extension *a*, fitting into a corresponding concavity in the top of the stem *b*.

Within the projection *a* is cored out a chamber, O, the bottom of which is curved and swept from the same centre as the exterior of *a*. In the bottom of this recess or chamber O is a nut, E, tapped to receive the screw-bolt *c*. This bolt passes down through the stem *b*, and serves to clamp the box firmly into its seat after it has adjusted itself to the line of the shaft.

The hole *n*, where the bolt *c* passes through the shell *a*, is elongated, to allow a motion of the box in the vertical line of the shaft, but is made to fit transversely, to prevent any movement across its axis.

To raise or depress the box, the screw-bolt *c* is loosened, and the stem *b* is rotated in either direction by a lever inserted in the hole *m*, until the proper position has been attained, when the whole is firmly fixed by tightening the bolt *c*, which also prevents the stem *b* from turning.

Having thus described the nature of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The convex projection *a*, in combination with the bolt *c*, for retaining the box in its seat, substantially as described.
2. The threaded stem *b*, when arranged to adjust the box by its own rotation, as herein set forth and described.
3. The screw-bolt *c*, for retaining the box in its seat, in the manner and for the purposes specified.
4. The combination and arrangement of the convex extension *a*, revolving screw-stem *b*, and screw-bolt *c*, arranged and operated substantially as set forth and specified.

Witnesses:

THEODORE C. FROST,
LYMAN ORTON.

GERRIT V. ORTON.