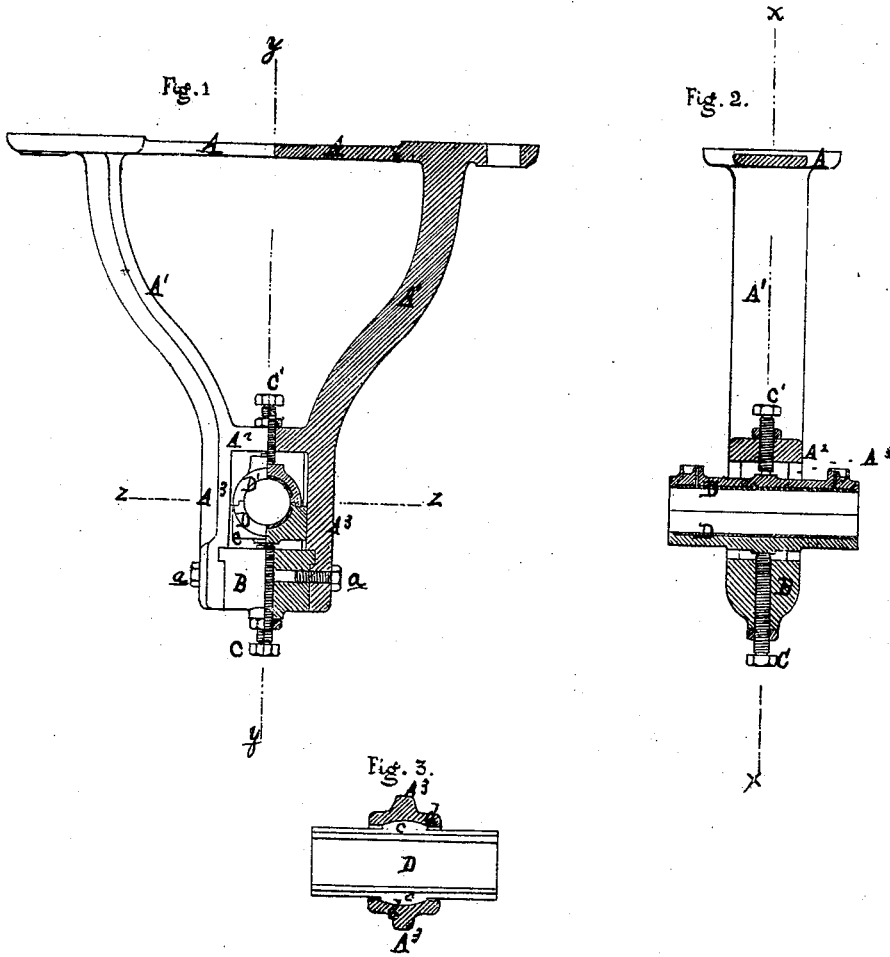


J. SMART.

Improvement in Hanger for Shafting.

No. 128,431.

Patented June 25, 1872.



Witnesses:
H. S. Sprague
H. A. Eberk.

Inventor:
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UNITED STATES PATENT OFFICE.

JACOB SMART, OF NILES, MICHIGAN, ASSIGNOR OF ONE-HALF OF HIS
RIGHT TO CHARLES E. SMART, OF SAME PLACE.

IMPROVEMENT IN HANGERS FOR SHAFTING.

Specification forming part of Letters Patent No. 128,431, dated June 25, 1872.

To whom it may concern:

Be it known that I, JACOB SMART, of Niles, in the county of Berrien and State of Michigan, have invented a new and useful Improvement in Shafting-Hangers; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a side elevation of my hanger, one-half being shown in section on the plane x in Fig. 2, which is a transverse vertical section at y in Fig. 1; and Fig. 3 is a plan of the lower half of the box with the hanger in section on the plane z in Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

The nature of this invention relates to an improvement in the construction of hangers and their journal-boxes, whereby the latter are rendered self-adjusting radially in the horizontal plane, and by means of set-screws, in a vertical plane, so that it can accommodate itself to requirements of the shaft, and yet be held firmly in any position. The invention consists in the peculiar construction of the hanger with an open jaw at the lower part, provided with transverse grooves to receive the tongues at the ends of the bar, slipped in to close the jaw, and up through which bar a set-screw passes to support the box, and adjust it in a vertical plane, the box being held down by a second screw through the girt above the box; also, in boring out the jaws, so that their inner faces shall form concave segments to receive convex bosses at the sides of the lower bearing of the box, and thus allow the latter to have a radial movement in the horizontal plane.

In the drawing A represents the girt or top cord of the hanger, from which is pendent a pair of legs, A^1 , united at the lower part of their inward curves by a girt, A^2 , below which they extend in parallel planes to form the

jaws A^3 , in the lower inner face of each of which a transverse groove is cut to receive a corresponding feather or tongue at the ends of a block or bar, B, which thus closes the lower end of the hanger. This bar B is held in place by a screw-bolt, a , tapped into each end through the lower ends of the jaws. Up through the center of the bar B a set-screw, C, is tapped through a threaded hole, to support the lower half of the journal-box D, and is provided with the usual check-nut. D' is the cap of the box, and is held in place by a set-screw, C' , tapped through the center of the girt A^2 , being also provided with the check-nut. Before the bar B is inserted the hanger-chord A is bolted to the face-plate of a lathe, and the jaws A^3 are bored out, so that their inner faces form two concave segments, having a prolongation of the centers of the set-screws CC' for their axes. The lower half of the box is cast with a rib or boss, c , at the middle, the sides or faces of which are shaped to fit the concavities of the jaws, as shown in Fig. 3, d d representing the concave faces of the jaws.

It will be seen that the shaft may be readily lined vertically by means of the set-screws CC' , while the box may move radially from its supported centers to adjust itself to the requirements of the shaft, the set-screws supporting the box and shaft in place, but relieved from all lateral strains, which are taken by the segments of the jaws.

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

1. The hanger A A^1 A^2 , cast with the pendent-jaws A^3 , closed at the bottom by the bar B sliding in a dovetailed recess, and held by a set-screw, as described.
2. The combination of the jaws A^3 A^3 , bosses or ribs c , bar B, and journaled supporting-screw C, as described.

JACOB SMART.

Witnesses:

HENRY H. COOLIDGE,
CHARLES E. SMART.