(No Model.)

H. C. CROWELL

SHAFT HANGER.

No. 278,404. Patented May 29, 1883.

Fig. 2.

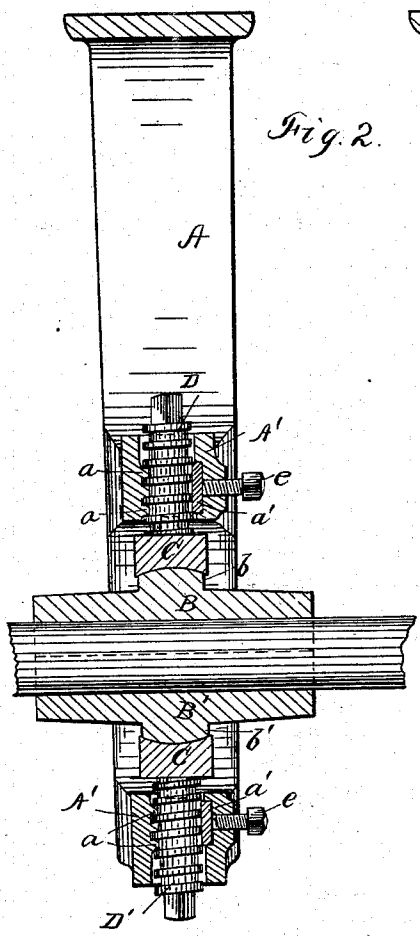


Fig. 1.

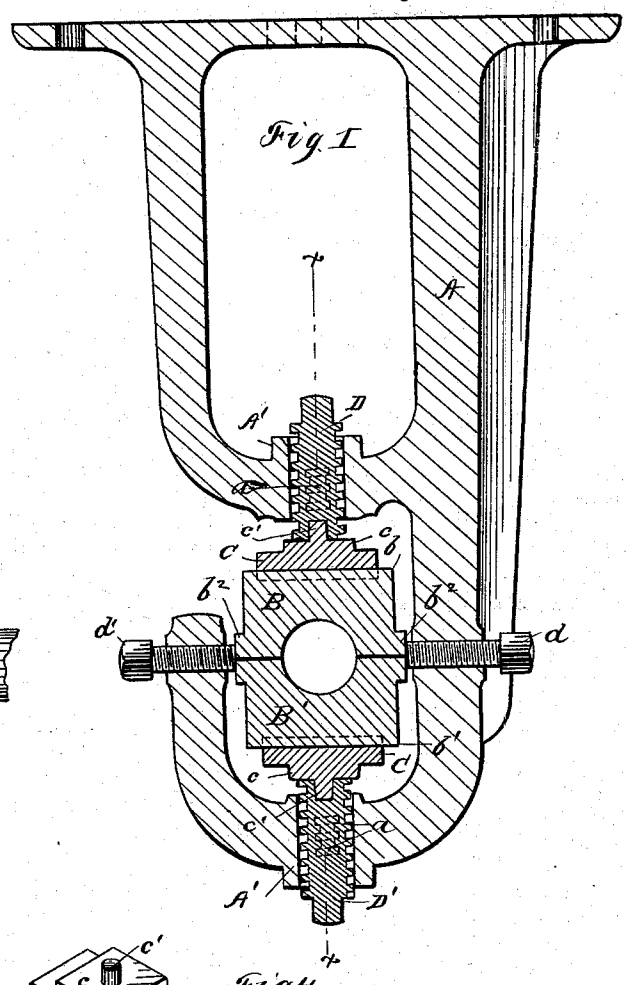


Fig. 4.

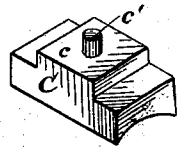


Fig. 5.

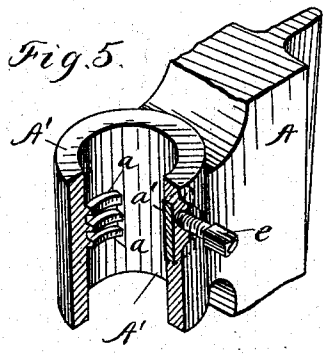
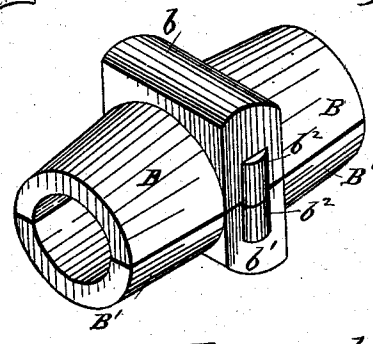


Fig. 3.



Witnesses.
W. R Edelen
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Inventor.
Hilen C. Crowell.
per Hallock & Hallock
Att's

N. PETERS. Photo-Lithographer. Washington. D. C.

UNITED STATES PATENT OFFICE.

HILEN C. CROWELL, OF ERIE, PENNSYLVANIA.

SHAFT-HANGER.

SPECIFICATION forming part of Letters Patent No. 278,404, dated May 29, 1883.

Application filed September 18, 1882. (No model.)

To all whom it may concern:

Be it known that I, HILEN C. CROWELL, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Shaft-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 what are known as "shaft-hangers;" and it consists in new and useful improvements in the construction of the same, which will fully appear in the following description and claims.

The invention is illustrated in the accompanying drawings, as follows:

Figure 1 is a vertical section through the hanger on a line transversely to the shaft. Fig. 2 is a vertical section on a line longitudinal with the shaft. Fig. 3 is a perspective view of the box. Fig. 4 is a perspective view of one of the bearing-blocks C. Fig. 5 is a fragment of the hanger A, showing the opening for the screw D, with parts broken away, so as to show construction.

A is the hanger-frame; A′ A′, an enlargement of the frame, forming openings for the screw by which the box is adjusted vertically. B B′ is the journal-box. C C are bearing-blocks, which lie between the vertical adjusting-screws and the journal-box. D D′ are the vertical adjusting-screws, and *d d′* are the lateral adjusting-screws. Other parts will be referred to in proper connection in the following general description and claims.

The construction of the box and the manner of adjusting it are similar to that shown in a previous application by the present inventor; but the construction of the screws by which the box is adjusted vertically and the devices connecting said screws with the box, and the construction of the frame to receive and operate said screws, and the means provided for locking said screws when the proper adjustment is had, constitute the essential features of this invention, and are as follows:

The frame A is cast with the openings A′ A′ cored out, and on the inner wall of these openings are formed in the casting screw-threads *a a* on one side of the opening. These screw-threads are simply a series of lugs having the proper pitch and spaced so as to form segments of a screw-thread. On the wall opposite these lugs *a a* is cored out a recess, in which a bearing-plate, *a′*, can be adjusted. A screw, *e*, is tapped through the wall into this recess and operates against the bearing-plate.

The screws D D′ are quite large, and are formed of cast metal. They are made so as to work easily and freely in the threaded openings A′ A′. When they have been adjusted so as to properly hold the box they are locked in place by the screw *e*, which acts as a set-screw or jam-screw, the bearing-plate *a′* simply serving to give a larger bearing-surface, and of course it can be dispensed with, if desired; but its use is preferred because the screw will then not damage the thread on the screws. These screws D D′ swivel onto bearing-blocks C C, which are placed between them and the box. The bearing-surfaces of these blocks are curved inwardly, so as to fit upon the curved-backed bosses *b b′* on the box and permit free lateral adjustment of the box by the screws *d d′*, and at the same time allow the box to turn vertically therein as in a journal-box, and being swiveled in the screws D D′ by the pin *c′*, they permit a horizontal pivotal movement of the box, thus forming a universal joint for the box.

I am aware that shaft-hangers have been provided with vertical openings for shaft-adjusting screws, each held in place by a set-screw having a segmental screw-thread upon its end, which corresponds with the thread on the shaft-adjusting screw, but am not aware that said openings have been provided with screw-threads which support the side of and form a bearing for the shaft-adjusting screw opposite to that in contact with the set-screw.

What I claim as new is—

1. In a shaft-hanger, the frame A, having openings A′ A′ cored therein, with screw-threads formed on the walls thereof, in combination with screws D D′, set-screws *e e*, and the swiveled bearing-blocks C C.

2. In a shaft-hanger, the frame A, having openings A′ A′ cored therein, with the segments of screw-threads *a a* formed therein, lo-

cated above and below the shaft-line, adjusting-screws D D′, placed within said openings and provided with swiveled bearing-blocks C C, with inwardly-curved bearing-faces, set-screws *e e*, adjusted as shown with relation to said screws D D′, in combination with the box B B′, having bosses *b b′* upon its upper and lower surface, substantially as and for the purposes set forth.

3. A shaft-hanger frame having adjusting-screw openings A′ cored therein, with segments of a screw-thread on one side of said opening, and a jam-screw adjusted to operate toward said segments of screw-threads from the opposite side of said cored openings, substantially as and for the purposes set forth.

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

HILEN C. CROWELL.

Witnesses:
A. H. GRAY,
W. R. EDELEN.