J. M. STONE.

HANGER FOR SHAFTING.

No. 185,840. Patented Jan. 2, 1877.

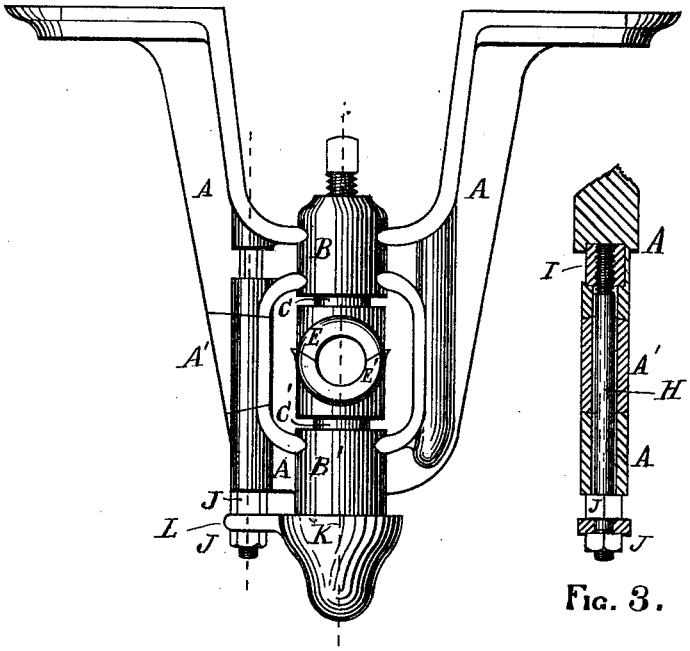

Fig. 1.

Fig. 3.

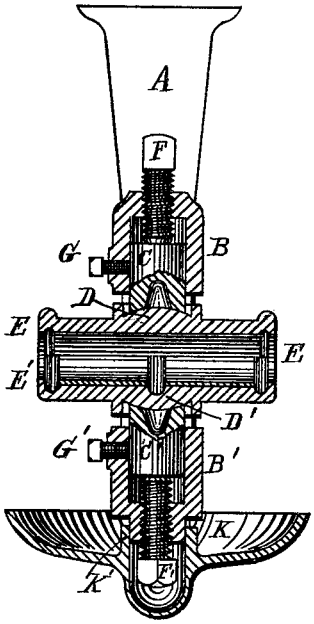

Fig. 2.

WITNESSES.

Wm. P. Lummus

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INVENTOR.

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UNITED STATES PATENT OFFICE

JOSEPH M. STONE, OF NORTH ANDOVER, MASSACHUSETTS.

IMPROVEMENT IN HANGERS FOR SHAFTING.

Specification forming part of Letters Patent No. **185,840**, dated January 2, 1877; application filed July 3, 1876.

To all whom it may concern:

Be it known that I, JOSEPH M. STONE, of North Andover, in the county of Essex and State of Massachusetts, have invented an Improved Hanger for Shafting, of which the following is a specification:

My invention relates to an improved mode of constructing the details of a hanger, by which both the efficiency and economy of construction are increased; and consists, in the first place, in the new method of constructing the body of the hanger with a removable piece, which is fitted to the body by casting the same upon and around the said piece, the contact surfaces of which are of such form that the said filling-piece may be freely removed, and also be firmly held in the body, to aid it in preserving its strength and form; and it also consists in the use, in combination with the body of the hanger, of a stay-bolt, which traverses the filling-piece, which unites the upper and lower jaws of the hanger firmly together, and also supports the drip-pan; and it also consists in an improved drip-pan, and manner of supporting the same, which will be described; and it also consists in a new method of constructing the ball-joint which holds the box in the body of the hanger, and provides for its adjustment in line.

In the drawing, Figure 1 is a side elevation of the hanger complete. Fig. 2 is a transverse sectional elevation on the line of the shaft. Fig. 3 is a transverse sectional elevation on the line *a b*, through the center of the stay-bolt and the filling-piece and body of the hanger.

A is the body of the hanger, which is made with two cylindrical sockets, B B′, above and below the shaft, in the same vertical line, in which are fitted two cylindrical blocks, C C′, the inner ends of which are made concave, to fit the spherical surfaces D D′ of the central bearing, which supports the box E E′. The shaft is adjusted as to its vertical height by the screws F F′, which bear against the outer ends of the blocks C C′, which are, in turn, held fixed by the set-screws G G′. By this construction the box E E′ is capable of being rocked to a limited extent in every direction.

A′ is a "filling-piece," so called, which is made upon the outside symmetrical with the rest of the hanger, and is fitted to its place in the hanger by the casting of the hanger itself. It is so formed, where it fits the other part of the hanger, as to leave a space through which the shaft and its box can be removed, and its ends are so beveled or inclined as to afford a lateral support for the same in the body of the hanger. Through this piece, and continued in the leg of the hanger, a hole is cored, as is shown in Fig. 3, which receives the stay-bolt H, which is fastened at its upper end by being screwed into the nut I, which is also cast into the hanger, and is held in position in the mold by the core which forms the hole for the stay-bolt H.

In molding this hanger, after the pattern is withdrawn, the filling-piece A′ just fills the mold at its proper place, and forms the principal support to the core which forms the hole for the stay-bolt, and holds the nut I in the proper position in the mold.

After the hanger has been cast, the filling-piece can be driven out of its place by a light blow of the hammer, and replaced in the same manner; and when the stay-bolt H is screwed in place the nut J is screwed up firmly, which makes this side of the hanger as strong as the other side.

K is the drip-pan, which is made with a central recess to receive the lower set-screw F′. It is provided with an inner rim, K′, which prevents the drip from coming in contact with the parts inclosed by it. The pan is supported in place by the ear L, cast upon the same, which embraces the lower end of the stay-bolt H, and is secured thereto by the nut J, so that the drip-pan can be at any time removed without disarranging the shafting.

What I claim is—

1. The combination, with the body of the hanger, of the filling-piece A′ and stay-bolt H, co-operating substantially as described.

2. The drip-pan having a supporting-ear, L, in combination with the stay-bolt H, substantially as described.

Executed June 29, 1876.

JOSEPH M. STONE.

Witnesses:

WM. W. SIMMONS,

WM. C. HIBBARD.