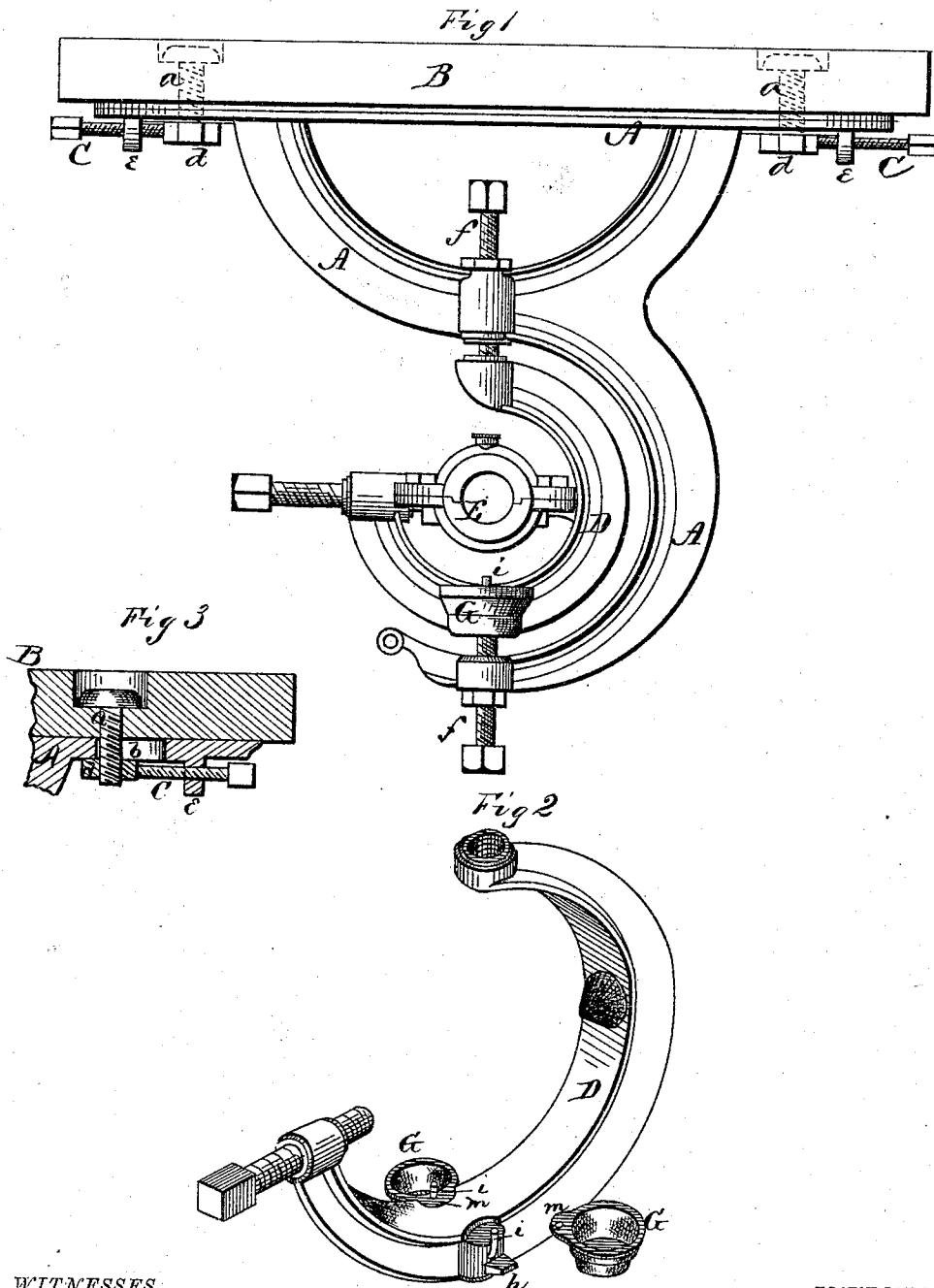


B. E. ORTON & W. CAVERT.
Shaft-Hangers.

No. 144,353.

Patented Nov. 4, 1873.



WITNESSES.
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UNITED STATES PATENT OFFICE.

BRAINARD E. ORTON AND WILLIAM CAVERT, OF STERLING, ILLINOIS.

IMPROVEMENT IN SHAFT-HANGERS.

Specification forming part of Letters Patent No. **144,353**, dated November 4, 1873; application filed October 3, 1873.

To all whom it may concern:

Be it known that we, BRAINARD E. ORTON and WM. CAVERT, of Sterling, in the county of Whitesides, and in the State of Illinois, have invented certain new and useful Improvements in Shaft-Hanger; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of the frame of a shaft-hanger so as to be adjusted back and forth; and also in the mode of attaching drip-cups to the yoke of the hanger, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation of our hanger. Fig. 2 is a perspective view of the yoke, and Fig. 3 is a section through a part of the hanger-frame.

A represents the hanger-frame, fastened to the under side of a beam, B, by means of bolts *a a*. These bolts pass downward through the beam, and through elongated slots *b b* in the ends of the hanger, and nuts *d d*, screwed upon the ends of the bolts, hold the hanger to the beam. At each end of the hanger is a downward-projecting ear, *e*, through which is passed a set-screw, C, to bear against the side of the nut *d*. By means of these set-screws C C, the hanger can be adjusted back and forth with perfect nicety. It will be seen that the set-screws C C, in addition to adjusting the hanger-frame, also lock the nuts *d d*, which hold the hanger to the ceiling, so that they cannot come loose, which is often the case in other hangers, from the jarring of the machinery. The lower part of the hanger or frame A is C-shaped and fitted with two vertical screws, *f f*, whose inner ends serve as

pivots for the yoke D. In the yoke D is pivoted the shaft-bearing, E, which may be constructed and arranged in any of the known and usual ways. On the sides of the yoke D, on each side of the lower pivot-screw *f*, is a vertical pin, *i*, and below the same a horizontal lug, *h*. G G represent two drip-cups, provided each with an ear, *m*, having a hole through it, as shown in Fig. 2. These cups are attached, one on each side of the yoke D, by the ear *m* being placed on the pin *i*, and fitting in a recess on the yoke, the lug *h* holding the cup out in a horizontal position. These cups receive all the oil that may drip from the bearing E, and as said cups are attached to the yoke they will always be directly below the ends of the shaft-bearing, in whatever position this may be turned.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the beam B, of the top bar of the hanger-frame A, provided with slots *b* and ears *e*, the bolts and nuts *a d*, and set-screws C, for adjusting the hanger-frame longitudinally, and at the same time locking the nuts on the bolts, which secures the frame to the beam, all substantially as herein set forth.

2. The combination, with the pivoted yoke D and pivoted shaft-bearing E, of the detachable drip-cups G G, provided with ears *m m*, and connected to the yoke D by means of pins *i*, for receiving the drippings from the shaft-bearing irrespective of the position in which the shaft is placed, substantially as herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 23d day of September, 1873.

BRAINARD E. ORTON.
WILLIAM CAVERT.

Witnesses:

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