G. A. H. VOLLRATH.
Bearing for Shaft-Hanger.

No. 196,505. Patented Oct. 23, 1877.

Fig. 1.

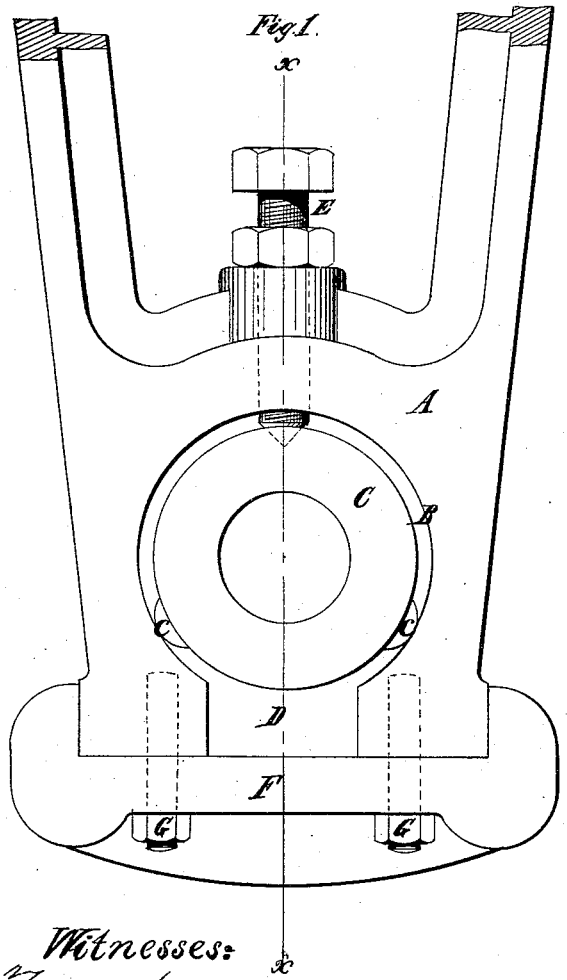
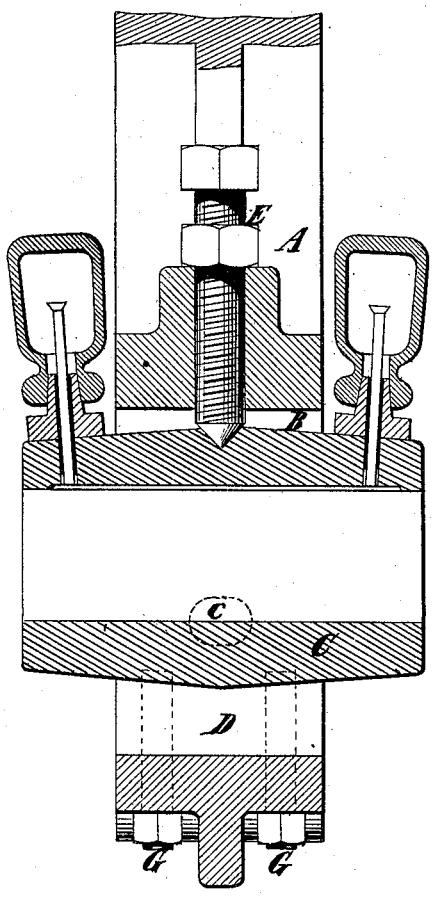


Fig. 2.



Witnesses:
Fred'k Haynes
L. Allen

Inventor
G. A. H. Vollrath
by his Attorneys
Brown & Allen

UNITED STATES PATENT OFFICE.

GUSTAV A. H. VOLLRATH, OF ALTONA, GERMANY.

IMPROVEMENT IN BEARINGS FOR SHAFT-HANGERS.

Specification forming part of Letters Patent No. **196,505**, dated October 23, 1877; application filed September 12, 1877.

To all whom it may concern:

Be it known that I, GUSTAV ALDOPH HEINRICH VOLLRATH, of the city of Altona, Germany, have invented an Improvement in Bearings for Shafts and Pivots; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification.

The object of the invention is to supply a simple and advantageous bearing for shafts, pivots, and other transmitters of motion.

The invention will be sufficiently illustrated by a description of it as applied to a vertical hanger for ordinary line-shafting.

Figure 1 in the drawing is a side view of such a hanger comprising my improvement, and Fig. 2 is a vertical section of the same on the line *x x* in Fig. 1.

A is the hanger, which has formed in its lower part an opening, B, for the reception of the box C. Said opening is preferably made circular in form, as shown in Fig. 1. Said hanger may also have a slot, D, formed in it for the insertion of the shaft, as hereinafter specified; but this is not necessary in any case where the shaft or pivot may be inserted endwise, as in hangers for the ends of shafting. Said slot D is formed in the lower part of the hanger, to allow the entrance of the shaft or pivot into the opening B; but the said slot may be formed in any other relation with the said opening. Thus, for horizontal bracket-bearings, the said slot may be made either on the upper side or on the lower side, or midway between the said sides.

Said box C has formed on its under side two convex projections, *c c*, preferably separated by a distance of about sixty degrees of its circumference, and when inserted in the opening B it is held in place by a set-screw, E, which engages, preferably, a countersunk recess formed in the outer surface of said box.

To strengthen the slotted part of the hanger, and prevent its spreading by the wedge-like action of the projections *c* on the inclined sides of the opening B, I fit and attach to the hanger a clamping-cover, F, which is held attached to the hanger by screws G.

The slot D and clamping-cover F are only necessary for hanging the shaft in its bearings, which is accomplished as follows: The boxes C having been slipped on the shaft, the shaft is passed through the slot D, and the clamping-covers F are attached to the hangers. The boxes C are then slid along the shaft and brought into their proper positions in the openings B, and fastened in place by the set-screws E.

This method of hanging secures great facility in the alignment of shafting.

It will be seen that the general features of my invention may be carried out as well with boxes made in halves and screwed together, with bracket-supports for bearings, and with upright supports for the boxes, which may have the slot D formed in the upper part.

I claim—

1. The combination, with a support, A, having formed therein an opening, B, of the box C, having two projections, *c*, and secured in said opening by a set-screw, substantially as and for the purpose set forth.

2. The combination, with a support having an opening, B, for the reception of a box, C, provided with projections *c*, and a slot, D, which allows the entrance sidewise of the shaft or pivot, of the clamping-cap F, fitted and attached to said hanger, substantially as and for the purpose set forth.

GUSTAV A. H. VOLLRATH.

Witnesses:

HERMANN STRACK,
of Hamburg, Place No. 9.

HEINRICH STRACK,
of Hamburg, Ritterstrasse, 133.