No. 725,284. PATENTED APR. 14, 1903.

W. H. PERKINS.

HANGING BRACKET.

APPLICATION FILED JAN. 26, 1903.

NO MODEL. 2 SHEETS—SHEET 1.

FIG. 2.

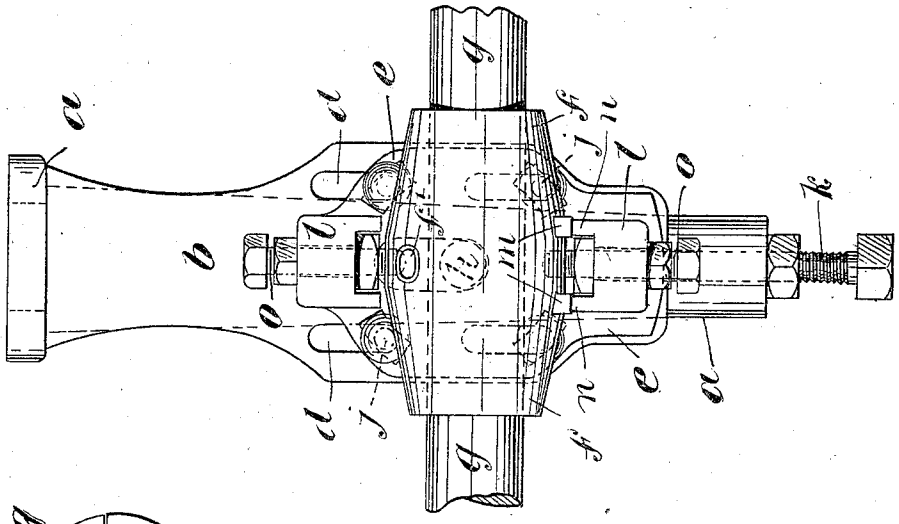


FIG. 3.

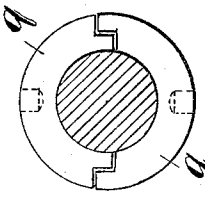


FIG. 1.

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NO MODEL. 2 SHEETS—SHEET 2.

FIG. 6.

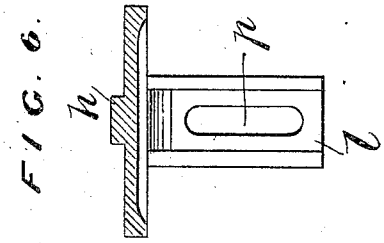


FIG. 5.

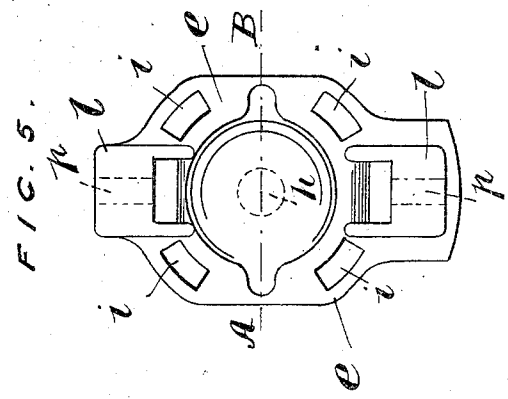
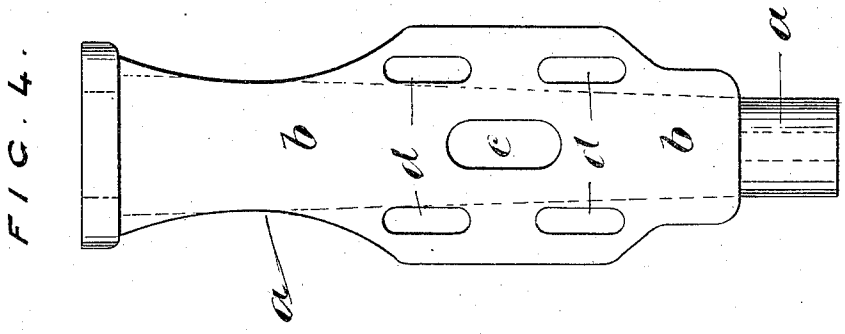


FIG. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM HERBERT PERKINS, OF MANCHESTER, ENGLAND.

HANGING-BRACKET.

SPECIFICATION forming part of Letters Patent No. 725,284, dated April 14, 1903.

Application filed January 26, 1903. Serial No. 140,636. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HERBERT PERKINS, general pattern-maker, a subject of the King of Great Britain and Ireland, residing at 4 Cowlishaw street, Oldham Road, Manchester, in the county of Lancaster, England, have invented certain new and useful Improvements in Shaft-Hangers, (for which an application for patent has been made in Great Britain, No. 14,819, and dated July 3, 1902,) of which the following is a specification.

My invention is designed to facilitate the erection and correct adjustment of the bearings of line-shafting, counter-shafting, and the like.

In the following I will more particularly describe my invention as applied to a hanging-bracket; but it must be understood that it is equally applicable to wall-brackets, pedestals, and similar supports and bearings for shafting.

In the accompanying drawings, Figure 1 is a side elevation of my invention. Fig. 2 is a front elevation thereof. Fig. 3 shows a modified construction of a bush. Fig. 4 is a face view of the bracket. Fig. 5 is a face view of a detail part. Fig. 6 is a cross-section on the line A B, Fig. 5.

I provide the bracket *a* with a flat vertical face *b*, (shown more clearly in Figs. 2 and 4,) having a central vertical recess *c*, and with vertical slots *d*, arranged one at each side of the central recess at the top and at the bottom. A face-plate *e* is constructed to carry the bearing-bush *f* for the shaft *g*, the plate *e* having a central stud *h* or projection and slots *i*, concentric with the stud, as shown more clearly in the separate view Fig. 5. The stud *h* is adapted to enter the vertical recess *c* of the bracket *a*, and the plate *e* is secured against the flat face *b* of the hanging-bracket *a* by means of bolts *j* passing through the side slots *d* in the bracket and the concentric slots *i* in the face-plate *e*. A true vertical adjustment of the face-plate *e* is easily obtained by raising the stud *h* within the vertical recess *c*. This can be effected by operating a screwed stud *k*, carried by the bracket *a*, the end of the stud bearing against the bottom of the face-plate *e*. In addition to raising the face-plate *e* vertically the provision of the concentric slots *i* enables it to be rotated to some extent upon its axis *h* to accommodate a shaft which is not in a true horizontal plane. The face-plate *e* is provided with top and bottom projections or arms *l l*, which are designed to carry the bearing-bush *f* for the shaft *g*, and in conjunction therewith means are adopted to effect a horizontal adjustment of the bearing on a flat face, besides permitting the bearing to oscillate to some extent to accommodate oscillations of the shaft. For these purposes the bearing-bush *f* is formed with flat surfaces *m m*, which are arranged to sit upon corresponding flat surfaces *n n*, provided on the lower supporting projection *l* of the face-plate *e*. On these flat surfaces the bearing can be readily adjusted in a horizontal plane at a right angle to the longitudinal axial line of the shaft *g*. I secure the bearing-bush *f* by means of bolts *o* passing through slots *p* in the projections *l l*, formed on the face-plate *e*, the ends of the bolts being recessed in the bearing-bush, securing the bush in position and forming trunnions, on which the bush can oscillate to some extent if thus influenced by the oscillation of the shaft.

The bush *f* is provided with a suitable oil-hole *f'* for lubricating purposes, which may be closed by a convenient form of oil cup or reservoir.

There are many advantages in my invention. The shaft can bed itself more truly in the bearing. Two flat faces *b* and *n*, respectively, are provided for horizontal and vertical adjustment. The face-plate *e*, carrying the bearing, may be rotated on its axis without altering its center, so that the bearing may be easily adapted to shafts inclined to the vertical or horizontal.

In adapting the invention to a wall-bracket or pillar-bracket or the like the flat bed *b* of the bracket *a* and the oscillating face-plate *e* may be horizontally arranged, and the actual bearing or bush *f* for the shaft may in such a case be set up by vertical screws passing through the webs formed on the oscillating face-plate *e* or otherwise, in addition to the screws passing through the slotted projections, which in this case would be vertically disposed. In this particular arrangement any special design of actual cast bracket may be used to support the oscillating face-plate.

Any suitable form of bush or bearing for sustaining the shaft may be employed. In Figs. 1 and 2 a continuous bush is shown; but a divided bush, as shown in Fig. 3, may be used.

I declare that what I claim is—

1. A hanging-bracket for supporting the bearings of revolving and other shafting having a flat vertical face *b* with vertical central and side recesses, a face-plate with corresponding flat face, and means for securing vertical adjustment of the face-plate and the rotation of the same to some extent about its axis, horizontal arms secured to the face-plate having slots therein, clamping-bolts arranged within the slots, a bush or bearing for the shaft carried by the bolts, there being flat faces formed on the bush arranged upon corresponding flat faces on the lower projecting horizontal arm substantially as described.

2. In combination for the indicated purpose a bracket having a flat face, a face-plate with corresponding flat face, means for adjusting the face-plate upon the flat face of the bracket and rotating it to some extent thereon, arms projecting from the face-plate and having flat surfaces arranged at a right angle to the flat face of the bracket, a bush or bearing for the shaft formed with flat surfaces to contact with the flats on the projecting arms, clamping-bolts to secure the bush to the arms of the face-plate and upon which the bush may oscillate and means for adjusting the bolts along the length of the projecting arms substantially as described.

3. In brackets of the indicated nature, a face-plate *e* means for adjusting the face-plate and rotating it about its axis, projecting arms carried by the face-plate, means for permitting the oscillation of the bush and for securing the bearing-bush to the arms and adjusting the same along the length of the arms substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

WILLIAM HERBERT PERKINS.

Witnesses:
JOSHUA ENTWISLE,
ALFRED YATES.