

(No Model.)

A. D. COX.
SHAFT HANGER.

No. 432,157.

Patented July 15, 1890.

Fig. 1.

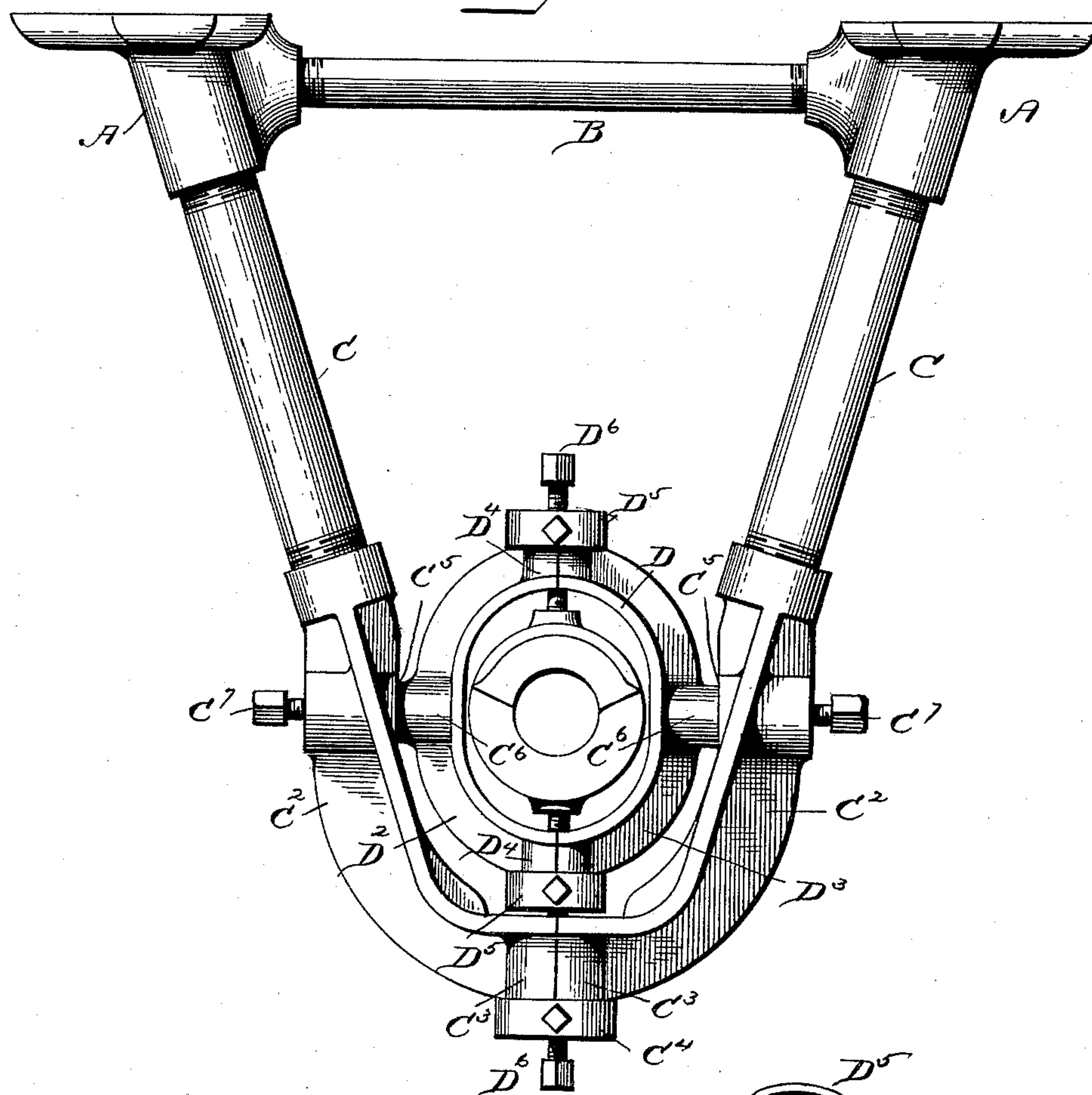
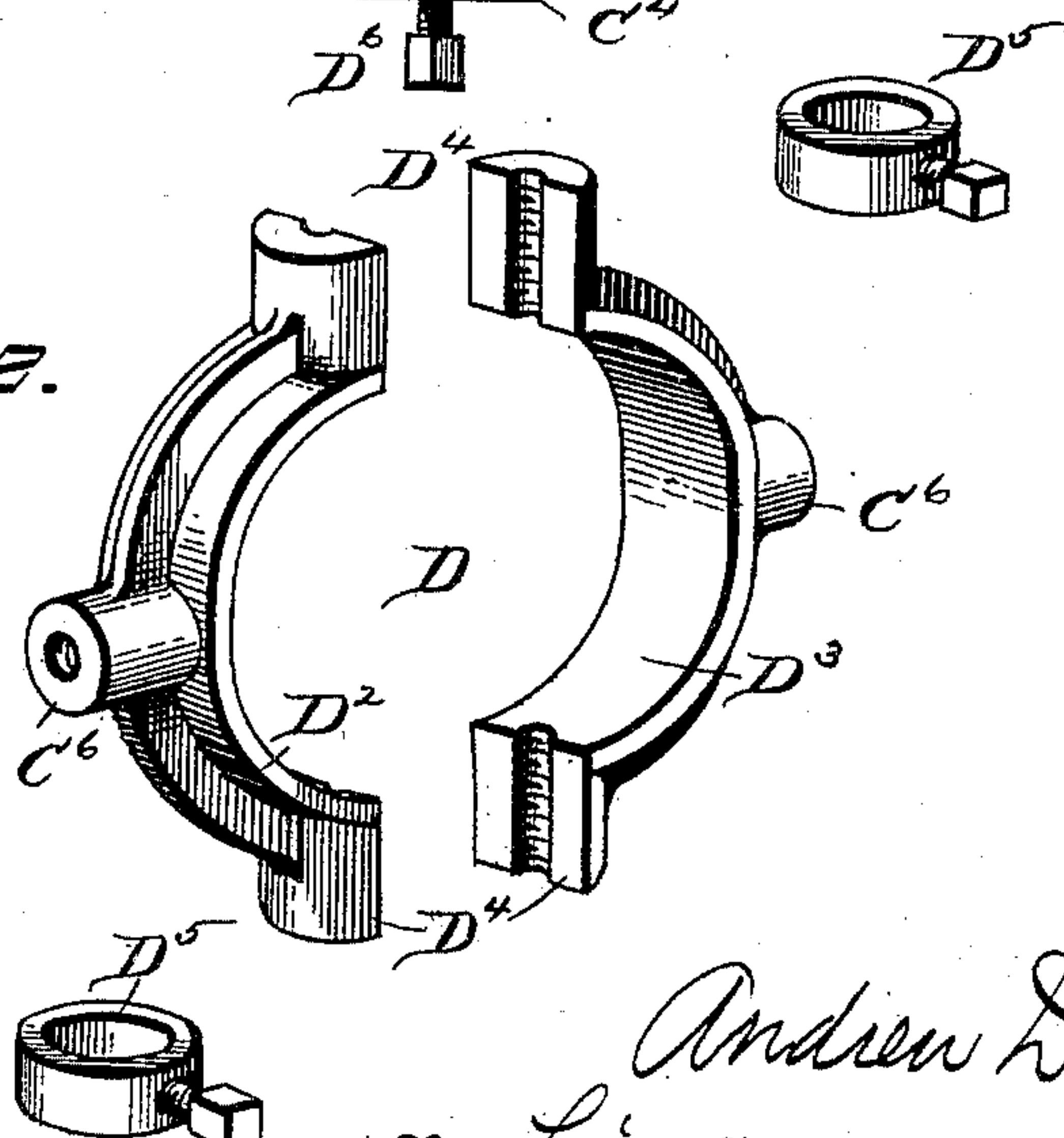


Fig. 2.



Witnesses
[Signature]
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By his Attorney
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UNITED STATES PATENT OFFICE.

ANDREW DINGWALL COX, OF WEST WINCHESTER, ONTARIO, CANADA.

SHAFT-HANGER.

SPECIFICATION forming part of Letters Patent No. 432,157, dated July 15, 1890.

Application filed April 24, 1890. Serial No. 349,330. (No model.)

To all whom it may concern:

Be it known that I, ANDREW DINGWALL COX, a citizen of the United States, residing at West Winchester, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Shaft-Hangers; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in adjustable shaft-hangers; and it has for its object to improve upon the construction and render more efficient in operation this class of devices.

The further and more immediate object of the present invention consists in providing a hanger which will be adjustable in either direction and at the same time so constructed as to permit the journal-box to at all times accommodate itself to the slight changes in the alignment of the shaft, so that there will at no time be either cramping or binding of the parts. The hanger and its attachments may be readily and easily placed in position, and when secured in place the direction of the shaft may be changed when desired without necessitating the resetting of the hanger-arms. The supporting-arms of the hanger may be adjusted as to their vertical position.

To the above ends and to such others as the invention may pertain the same consists in the peculiar construction and in the novel combination, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, like letters of reference indicating like parts throughout the several views, and in which drawings—

Figure 1 is a side view of a shaft-hanger embodying my invention. Fig. 2 is a perspective view of the ring or collar which forms a support for the journal-box, the sev-

eral parts being shown as separated, but in their relative positions.

Reference now being had to the details of the drawings by letter, A A designate castings, which are adapted to be secured to the ceiling of the apartment in which the shaft is to be hung.

B is a hollow tube of metal, which is screw-threaded at its ends to adapt it to enter screw-threaded openings in the castings A, said tube thus serving as a brace uniting the castings, as shown.

C C are metallic tubes, the upper screw-threaded ends of which are secured within screw-threaded openings in the castings A, said openings being inclined inwardly at an angle, substantially as shown.

C² are arms of cast metal, within the upper ends of which are screw-threaded openings to receive the screw-threaded lower ends of the tubes C. The arms C² are curved, as shown, and are provided at their lower ends with the hollow semicircular extensions C³, around which, when the parts are in position for suspending the shaft, is passed the collar C⁴, which serves to hold the lower ends of the arms in position. The arms C² are provided with horizontal openings C⁵ to receive the ends of the trunnions C⁶ upon the sectional support D which serves as a support for the journal-box, and the set-screws C⁷ serve as a means for adjusting the said arms laterally, as will be readily understood. The support D consists of a ring or collar of metal and is divided into two sections D² and D³, said sections being provided with horizontal trunnions or arms C⁶, and at its upper and lower ends the said ring is provided with projections D⁴. Upon these vertical projections D⁴ are sleeved the collars D⁵, while through central screw-threaded openings formed in the projections are passed the set-screws D⁶, by turning which screws the box may be adjusted vertically, as will be readily understood.

It will be readily seen that by the use of a shaft-hanging device constructed in accordance with my invention the box will readily adjust itself to all changes that may occur in the alignment of the shaft, and that the several parts may be readily and quickly adjusted.

Having thus described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

1. In a journal-box hanger, the combination, with the castings A, connected as described and provided with downwardly-inclined extension having screw-threaded openings, of the tubes C, adapted to engage said openings in the castings, and the curved arms C², provided with bearings for the journal-box support, substantially as shown and described.

2. The combination, with the castings A, tubular arms, and curved castings C², provided with bearings for the trunnions of the journal-box support, of the set-screws C⁷, adapted to adjust the trunnions within the bearings, substantially as shown and described.

3. In a shaft-hanger, the combination, with the castings, supporting-arms, and curved arms connected therewith, of a device for supporting the journal-box, provided with lateral trunnions and vertical projections, and means, substantially as described, for connecting the

journal-support with the arms of the shaft-hanger, substantially as shown and described, and for the purpose specified.

4. The combination, with the castings, tubular arms connected therewith, and curved arms attached to the lower ends of the tubular arms and provided with journal-bearings, of a supporting device for the journal-box, made in two sections, provided with horizontal trunnions and vertical projections, the horizontal trunnions being adapted to engage the bearings in the curved arms of the hanger-arms, and the two sections of the support being adapted to be united and held together by means of collars fitted over the vertical projections, and means, substantially as described, for adjusting the said support, as described.

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

ANDREW DINGWALL COX.

Witnesses:

ALEX. CAMERON,
S. R. WRIGHT.