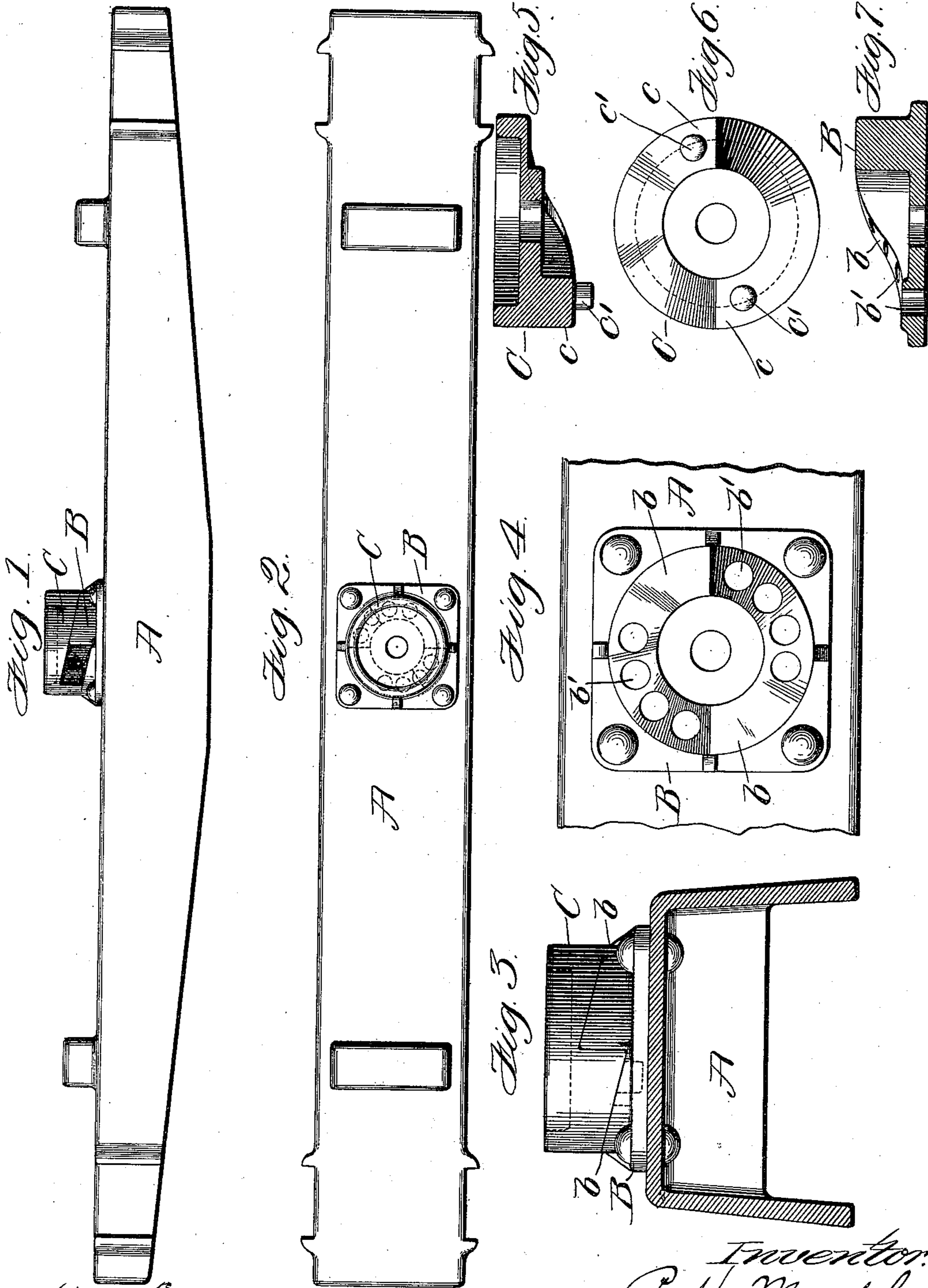


(No Model.)

P. H. MURPHY.
CENTER BEARING.

No. 602,090.

Patented Apr. 12, 1898.



Attest:
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UNITED STATES PATENT OFFICE.

PETER H. MURPHY, OF EAST ST. LOUIS, ILLINOIS.

CENTER-BEARING.

SPECIFICATION forming part of Letters Patent No. 602,090, dated April 12, 1898.

Application filed February 12, 1898. Serial No. 670,023. (No model.)

To all whom it may concern:

Be it known that I, PETER H. MURPHY, a citizen of the United States, residing at East St. Louis, in the county of St. Clair and State of Illinois, have made a certain new and useful Improvement in Center-Bearings, of which the following is a full, clear, and exact description, 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, forming part of this specification, in which—

Figure 1 is a side elevational view of a bolster, showing my improved center-bearing applied thereto. Fig. 2 is a top plan view of the same. Fig. 3 is an enlarged cross-sectional view through the bolster, showing my improved center-bearing down to its lowest position. Fig. 4 is a top plan view of the bolster, the center-bearing being removed. Fig. 5 is a sectional view of the center-bearing. Fig. 6 is a bottom plan view of the same, and Fig. 7 is a sectional view of the bolster-plate.

This invention relates to a new and useful improvement in center-bearings, the object being to provide a center-bearing with devices whereby the same may be adjusted relative to its bolster, said devices also, after the adjustment of the center-bearing, locking said center-bearing in its adjusted position.

With this object in view the invention consists in arranging cam-faces on the bolster and providing the center-bearing with corresponding cam-faces, with interlocking means on their respective cam-faces for locking the center-bearing in an adjusted position.

Other features of invention reside in the construction, arrangement, and combination of the several parts, all as will hereinafter be fully described, and afterward pointed out in the claims.

In the drawings, A indicates a bolster of well-known construction.

B indicates what I shall term a "bolster-plate," which is bolted or riveted to the bolster about the center, said plate being formed with projections *b*, whose upper faces are inclined. I have shown two of these projections *b*, but it is understood that a greater number could be used, if desired; also, that

these projections could be cast directly on the bolster instead of on a separate plate, which is afterward bolted to the bolster.

C indicates the center-bearing, which is provided with a corresponding number of projections *c*, whose lower faces are correspondingly inclined to match the inclined face of projections *b*. From the inside faces of the projections on the center-bearing extend lugs *c'*, which engage with notches or openings *b'* in the inclined faces of projections *b* on the bolster. If desired, the openings or notches may be on the center-bearing and the projections on the bolster, as is obvious.

The operation of the device is as follows: The center-bearing is designed in its original position to be arranged as shown in Fig. 3—that is, the projections *b* and *c* matching each other preferably. Should it be desired to adjust the center-bearing vertically, the car is jacked up, the center-bearing raised to disengage its lugs from the openings in the projections *b*, and the center-bearing rotated until it has obtained the proper height, when its lugs *c'* are again fitted into the registering openings *b'*. This vertical adjustment of the center-bearing also effects a rotary adjustment, which is advantageous in that a new wearing-face is presented to the bearing on the body-bolster.

The king-bolt, passing through the center-bearing and the bolster, prevents displacement of the center-bearing, and, if desired, a chain may be employed to prevent the loss of the center-bearing in case of accidents when the car-body leaves its truck.

I am aware that many minor changes in the construction, arrangement, and combination of the several parts of my center-bearing can be made and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

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

1. The combination with a bolster, of concentrically-arranged projections rising therefrom, said projections being formed with inclined faces, and a center-bearing formed with

corresponding projections having correspondingly-inclined faces to match said bolster projections, substantially as described.

2. The combination with a bolster, of a center-bearing, and means for adjusting said center-bearing vertically and revolubly, relative to said bolster, substantially as described.

3. The combination with a bolster, of a center-bearing which is vertically and revolubly adjustable relative thereto, and means for locking said center-bearing in its adjusted position, substantially as described.

4. The combination with a bolster having inclined lugs, of a center-bearing having matching lugs, and interlocking devices between said lugs, substantially as described.

5. The combination with a bolster provided with concentrically-arranged inclined lugs formed with projections or openings, of a center-bearing provided with concentrically-ar-

ranged inclined lugs to match said bolster-lugs, and converse parts on the inclined faces of the center-bearing lugs to engage the projections or openings of the bolster-lugs, substantially as described.

6. The combination with a bolster, of a bolster-plate B formed with projections *b*, said projections having openings *b'* arranged therein, a center-bearing C formed with projections *c*, and lugs *c'* on said projections to engage the openings *b'* of the projections *b*, substantially as described.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 4th day of February, 1898.

PETER H. MURPHY.

Witnesses:

F. R. CORNWALL,

HUGH K. WAGNER.