(No Model.) 2 Sheets—Sheet 1.

J. WALKER.

SHAFT HANGER ATTACHMENT.

No. 342,485. Patented May 25, 1886.

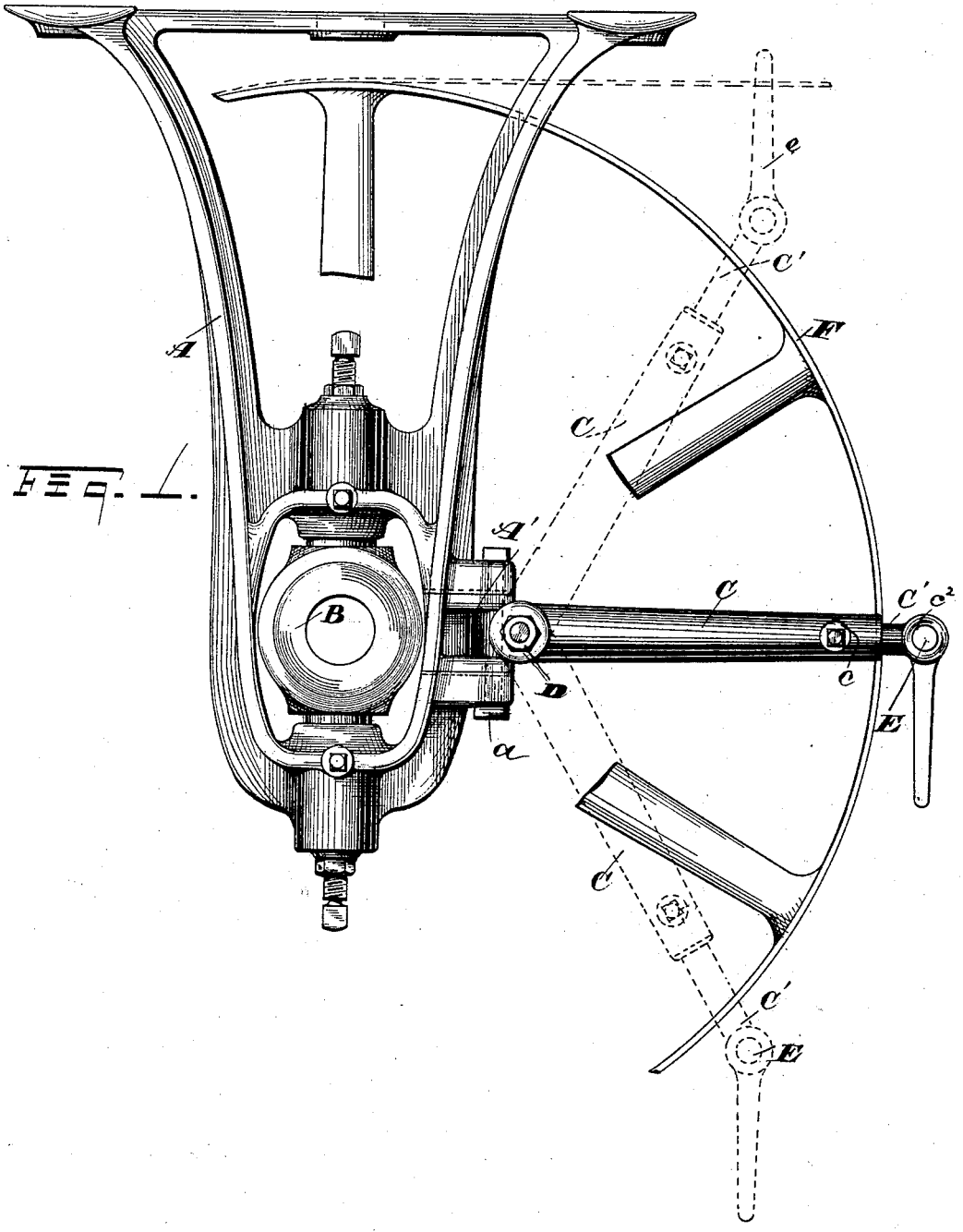

Fig. 1.

WITNESSES

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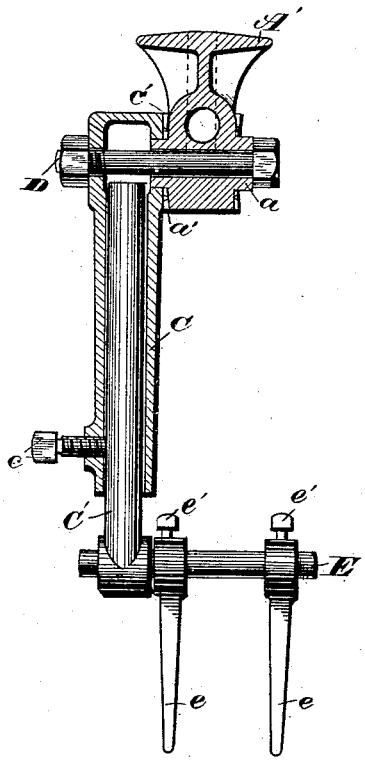
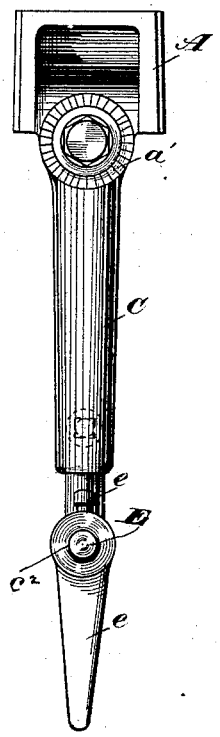
Fig. 2. Fig. 3.





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UNITED STATES PATENT OFFICE.

JOHN WALKER, OF CLEVELAND, OHIO.

SHAFT-HANGER ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 342,485, dated May 25, 1886.

Application filed October 31, 1885. Serial No. 181,517. (No model.)

To all whom it may concern:

Be it known that I, JOHN WALKER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Shaft-Hanger Attachments; and I do hereby 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 pertains to make and use the same.

My invention relates to improvements in shaft-hanger attachments, having for its object an extension-arm adjustably secured to the hanger or its attachments for supporting a belt-shifting device.

A further object is to provide serrated seats on the hanger and on the extension-arm arranged to engage each other, by means of which the extension-arm is firmly held in the desired position.

With these objects in view my invention consists in certain features of construction and in combinations of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view, in elevation, of a shaft-hanger with an extension-arm attached embodying my invention; also are shown in dotted lines different positions above and below in which the extension-arm may be adjusted. Fig. 2 is an elevation, partly in section, of the extension-arm secured to a removable block forming a part of the shaft-hanger, showing also the shifting-bar and fingers for moving the belt. Fig. 3 is an elevation of the said block, extension-arm, and fingers, with the arm attached to the rear face of the block, and in front showing one of the serrated seats on the block.

A represents the frame of the shaft-hanger, and A′ a removable block secured by the bolt *a*. When this block is removed, an opening is had through the side of the hanger-frame, through which a shaft may conveniently be passed laterally.

B represents an adjustable journal-box secured by any suitable means in the hanger-frame.

On either side of the block A′ are serrated faces, the serrations of which preferably are radial, as shown at *a′*, Fig. 3.

The extension-arm consists of a hollow part, C, and an inner part, C′, that may be moved out or in longitudinally, and is secured by the set-screw *c*. The part C has a serrated face at *c′*, similar to the seat *a′*, and when these seats are secured in the desired position by the bolt D the arm C′ is rigidly held in position. The part C′ has an opening through the head or outer end thereof, *c²*, through which slides the shifting-bar E, that is provided with the fingers *e*, secured by the set-screws *e′*, by means of which the fingers may be adjusted to embrace the belt. Where the line of the belt is some distance from one of the extension-arms, the rod E usually runs through two such arms secured to different hangers.

By loosening the bolt D the arm may be adjusted in various positions, as shown in Fig. 1, to accommodate the belt in any position, and the arm C′ is adjusted according to the size of the pulley F, over which the belt passes.

The block A′ is not essential, as the seat *a′* may be formed on the sides of the hanger where there is no such block used and an opening left for the bolt D.

This device forms a convenient support for a belt-hanger, that, as aforesaid, may be adjusted to operate on a belt running in any direction and over a pulley of any size.

Where the hangers are provided with the seats *a′*, as aforesaid, the extension-arms may be changed from one set of hangers to another, as may be found necessary in changing the machinery from time to time, and with very little trouble.

What I claim is—

1. In a belt-shifting device, the combination, with a shaft-hanger, of an arm pivotally attached to the hanger, with the pivotal axis arranged approximately parallel with the shaft, and means for rigidly securing the arm in the desired position, and the free end of the arm arranged to support a shifting-bar, substantially as set forth.

2. In a belt-shifting device, the combination, with a shaft-hanger, of an extension-arm arranged at right angles to the shaft and pivoted to the hanger, and means for securing the arm rigidly in the desired position, and the free end of the arm provided with a transverse

opening or other means for supporting a sliding shifting-bar and attachments, substantially as set forth.

3. In a belt-shifting device, the combination, with a shaft-hanger, of an arm arranged at right angles to the shaft and pivoted to the hanger, and the arm and hanger provided, respectively, with serrated seats and means of holding the seats in contact, and the arm provided with means at the free end for supporting a shifting-bar and attachments, substantially as set forth.

4. In a belt-shifting device, the combination, with a shaft-hanger, of an extension-arm arranged at right angles to the shaft and pivoted at one end to the hanger, with the free end of the arm arranged to support a shifting-bar, and means for securing the arm rigidly at the pivotal joint, substantially as set forth.

5. In a belt-shifting device, the combination, with a removable block forming a part of the shaft-hanger, said block provided with one or more seats serrated, preferably, radially of an extension-arm and corresponding serrated seat around a pivotal bolt approximately parallel with the shaft, for securing the block and arm, and the free end of the arm provided with suitable means for supporting a shifting-bar, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 10th day of July, 1885.

JOHN WALKER.

Witnesses:
CHAS. H. DORER,
ALBERT E. LYNCH.