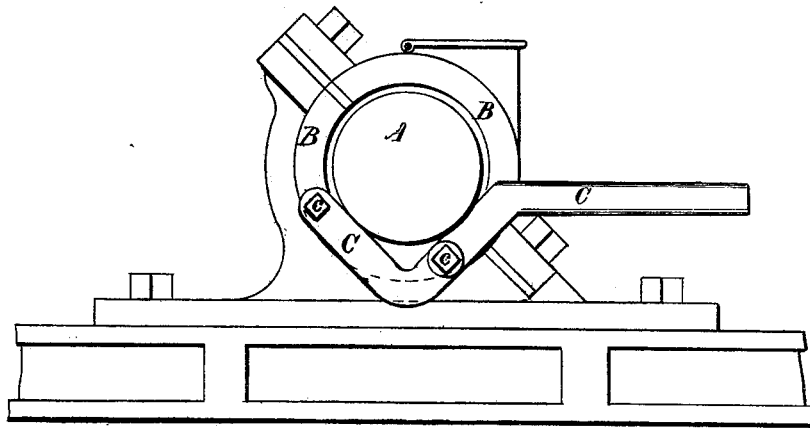


L. H. HALL.

DEVICE FOR LINING ENGINE-SHAFTS.

No. 188,048.

Patented March 6, 1877.



Witnesses
Geo. A. Shurgeon
W. E. Graham

Inventor
Leonard H. Hall
by Shurgeon & Hallok
attys

UNITED STATES PATENT OFFICE.

LEONARD H. HALL, OF ERIE, PENNSYLVANIA.

IMPROVEMENT IN DEVICES FOR LINING ENGINE-SHAFTS.

Specification forming part of Letters Patent No. 188,048, dated March 6, 1877; application filed October 21, 1876.

To all whom it may concern:

Be it known that I, LEONARD H. HALL, of Erie, in the county of Erie and State of Pennsylvania, have invented a certain new and useful Device for Lining the Shaft of an Engine or other Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which form a part of this specification.

My invention consists in providing a device for holding the shaft of an engine or other machine in line while the journal-boxes are being filled with Babbitt or other similar packing.

The object and purpose of my device is more especially for use on the engine or machine, for relining the shaft and refilling the boxes.

My invention is shown in the accompanying drawing, as showing an end view of the shaft, and a side view of the journal-box, of an engine, and my device is seen in the position of sustaining the shaft in line. A is the shaft; B, the journal-box, and C is my device.

The device C is a V-shaped iron, with a handle for a lever for lifting the shaft to place. The shaft rests in the V-shaped notch, and the notch being V-shaped, the center of the shaft always stands over the point of the angle. The iron C is attached to the box by

bolts *c c* and *c*, the holes in which the bolts fit being so placed that the point of the angle of the V is directly below the center of the journal-box, and also so as to bring the center of the shaft A concentric with the box B. Of these bolts, *c c* is used as a fulcrum-bolt, and *c* as a stay-bolt. Thus, when a shaft gets out of line, and it is necessary to reline it, and to refill the box, the device C is attached to the machine by first inserting the bolt *c c*. Then the operator raises on the handle of the iron C until he can insert the stay-bolt *c*. Then, a like operation being made at the opposite end of the shaft, the shaft is in line again, and the work of filling the boxes can go on at pleasure. When that process is completed, the irons C are removed, and the machine is ready for operation. The notch in the iron C may be U-shaped, but a V shape is more certain of accuracy.

What I claim as new, and desire to secure by Letters Patent, is as follows:

A shaft-sustaining iron, C, so attached to the machine as to hold the shaft A concentric with the journal-boxes B, as shown, and for the purposes mentioned.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

LEONARD H. HALL.

Witnesses:

JNO. K. HALLOCK,
ED. F. GENSHEIMER.