J. HERRIOT.

Lathe Chuck.

No. 196,525. Patented Oct. 30, 1877.

Fig. 1.

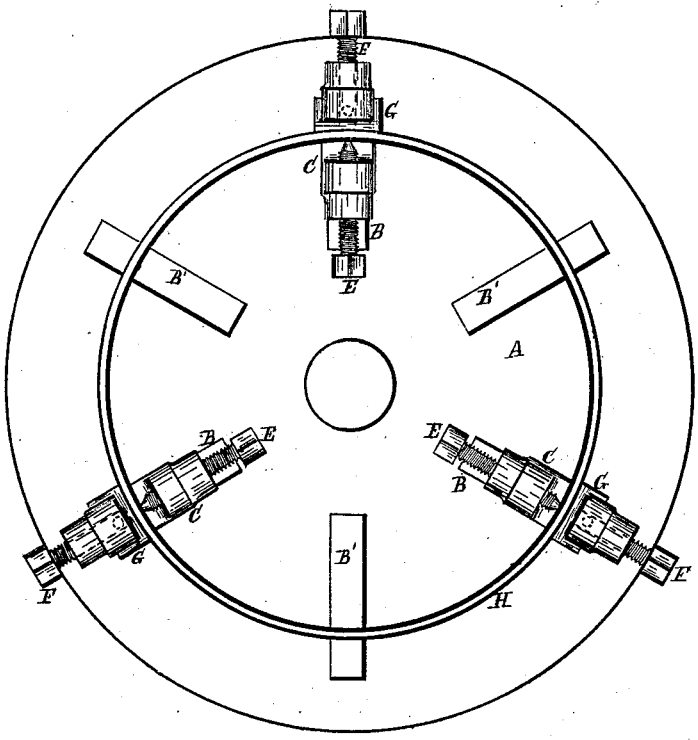
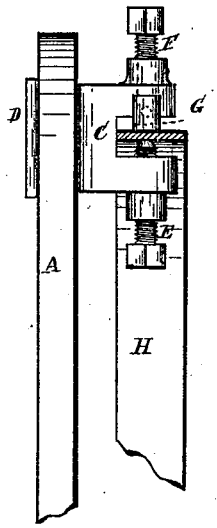


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN HERRIOT, OF CLEVELAND, OHIO.

IMPROVEMENT IN LATHE-CHUCKS.

Specification forming part of Letters Patent No. **196,525**, dated October 30, 1877; application filed September 17, 1877.

To all whom it may concern:

Be it known that I, JOHN HERRIOT, of Cleveland, in the county of Cuyahoga, and State of Ohio, have invented a certain new and Improved Lathe-Chuck; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawings, making a part of the same.

Figure 1 is a view of the face of the chuck. Fig. 2 is an edge view of the same.

Like letters of reference refer to like parts in the several views.

This invention is a chuck for lathes; and the special object of the same is to afford a secure and convenient means of holding the packing-rings of steam-engine pistons for turning and fitting the same to the piston, and for the redressing of said rings when they have become worn.

The construction of said invention and the operation of the same are substantially as follows:

On referring to the drawing, A represents a face-plate, of greater or less diameter, as the size of the packing-rings may require. In said plate are radial slots B, in which are fitted, so as to slide freely therein, lugs C. Said lugs are retained in place by pieces D, Fig. 2, sliding on the back of the face-plate, and secured to the lugs by screws or otherwise.

It will be seen, on examination of Fig. 2, that the lugs are bifurcated. In the inner arm of the lugs is an adjusting-screw, E; so also in the outer arm of the lug is an adjusting-screw, F. To the end of said adjusting-screw F is attached a sliding gib, G, as shown in the drawing.

The practical operation of the above-described device will be readily understood on examination of the drawings, and which is substantially as follows: The difficulty experienced in redressing old packing-rings is due mainly to their being cut across, to allow of their expansion. This expansive character of the rings renders it difficult to hold them in the lathe, and ordinarily requires much time, care, and labor to secure them in the lathe for that purpose. The ordinary chuck and other devices in which the uncut rings are finished are not adapted to this end; hence resort is to expedients more or less insufficient. To meet this want is the object of the chuck herein described, and which is screwed to the mandrel of the lathe, forming a face-plate to the same.

The ring H referred to is placed between the arms of the lugs C, so that the edge of the ring will rest against the back thereof. The back of each lug being equally distant from the face-plate, the edge of the ring will, therefore, be set true in the lathe.

The peripheral adjustment of the ring is made by the set-screws E F and gib G, and which, when properly adjusted, is firmly held thereby from springing while being turned, as shown in the drawings.

In the drawing three lugs only are represented; but more may be added, as the size of the packing-ring may render it necessary. The slots B′ are for that purpose.

What I claim as my invention, and desire to secure by Letters Patent, is—

In combination with the face-plate A, the bifurcated lugs C, provided with the adjusting-screw E and adjusting-screw F, having secured thereto a sliding gib, G, substantially in the manner as described, and for the purpose specified.

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