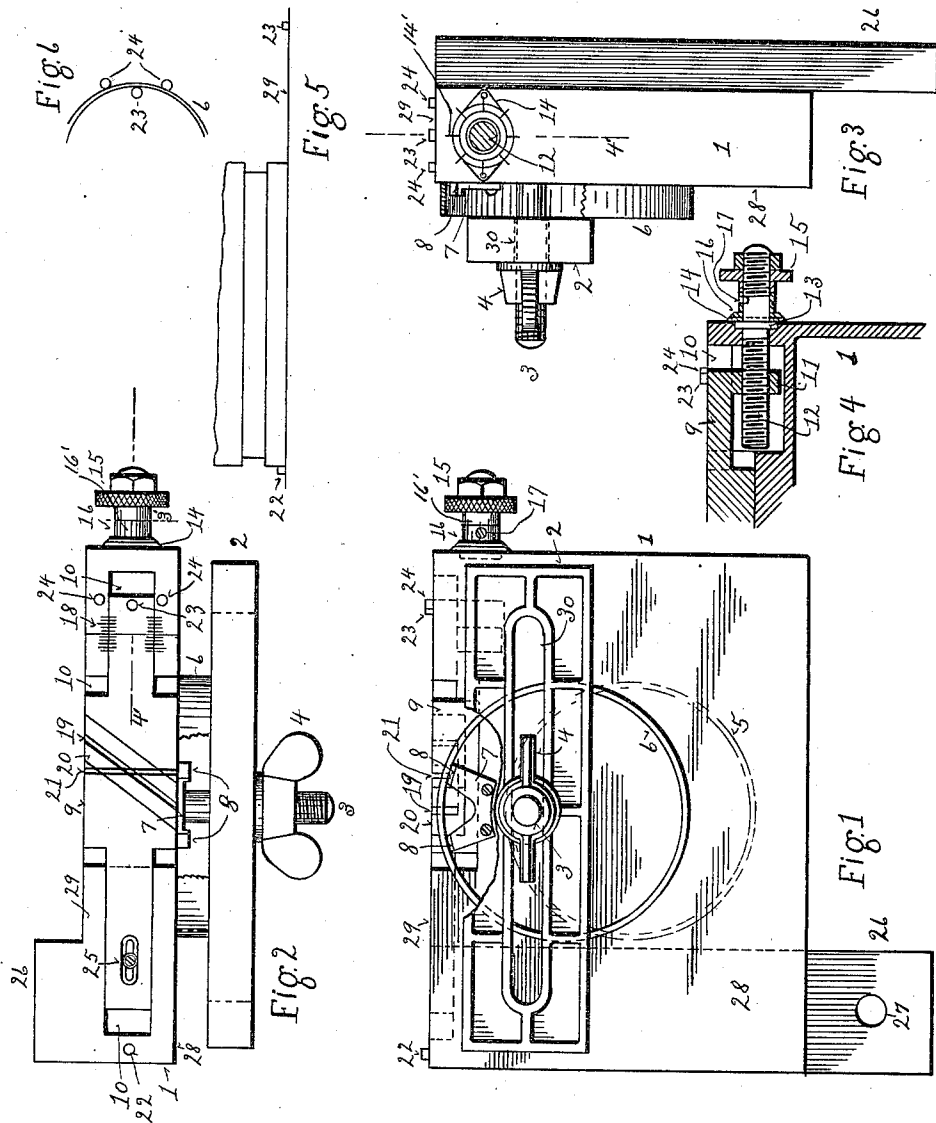


J. A. SIEBEN.
 DEVICE FOR FINISHING PISTON PACKING RINGS.
 APPLICATION FILED JUNE 24, 1912.

1,044,826.

Patented Nov. 19, 1912.



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JOSEPH A. SIEBEN, OF TOPEKA, KANSAS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH A. SIEBEN, a citizen of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented certain new and useful Improvements in Devices for Finishing Piston Packing-Rings, of which the following is a specification.

My invention is a device for finishing piston placing rings preparatory to placing them on the piston and inserting them in the cylinder. Its object is to hold the ring while it is being finished, such as filing to the proper width, and cutting out a portion to provide for an expansion for putting the ring on the piston and in the cylinder; its further object is to provide for doing this work accurately and speedily and easily; further objects will appear hereinafter.

It comprises a main body, a clamping member removably and adjustably secured to the body, an adjustable slide with a slot or slots to guide a hack saw for cutting the ring transversely, and means for properly centering the packing ring preparatory to cutting.

It further comprises the parts, improvements, and combinations hereinafter set forth and claimed.

In the drawings accompanying and forming part of this specification and in the description of the drawings I have shown my invention in its preferred form and have explained what I deem to be the best mode of applying the principles thereof; but it is to be understood that, within the scope of the appended claims, I contemplate changes in form, proportions and materials, the transposition of parts, and the substitution of equivalent members, without departing from the spirit of my invention.

Figure 1 is a side elevation of a device made in accordance with the principles of my invention, with a packing ring in place preparatory to cutting, showing also, in dotted outline, the position of a packing ring when filing. Fig. 2 is a plan view of the same, the packing ring being partly broken away. Fig. 3 is an end view. Fig. 4 is a sectional elevation, on the plane indicated by the line 4' in Figs. 2 and 3, showing the means for adjusting the slide. Fig. 5 shows the manner of using the device for measuring the piston and rings. Fig. 6 shows the method of using the device for finding the thinnest part of the ring.

Similar reference characters indicate like or corresponding parts throughout the several views.

1 is the main body having a rather broad smooth face 28, from which projects a threaded bolt 3 with a thumb-nut 4.

2 is the clamping member having a smooth inner face and a slot 30 through which the bolt extends.

26 is a rib formed on the back of the main body, the purpose of the rib being to clamp the device thereby in a vise in any desired position.

5 indicates the position of the packing ring, firmly clamped between the main body and the clamping member, for filing; in which case the body is ordinarily clamped in the vise with the face 28 up.

7 is a bracket with two arms 8, 8, on which the ring is placed for cutting, these arms automatically centering the ring 6.

9 is a slide mounted in ways 10, 10 in the upper edge of the main body, its upper face being in a plane at right angles to the plane of the face 28. The slide has a lug 11, in which a thumb-screw 12 has threaded engagement. The screw has a collar 13 fitting between the main body and a plate 14 secured to said main body, to prevent lengthwise movement of the screw, so that the screw imparts lengthwise movement to the slide.

15 is the head of the screw.

16 is a collar secured to the screw, as by a small set-screw 17, adjacent to the plate 14; this collar and adjacent plate may have graduation marks 14' and 16' thereon for measuring the lengthwise travel of the slide, as, for instance, if the screw have eight threads to the inch, and there be eight graduation marks, to secure a one-sixty-fourth inch travel of the slide, a one-eighth turn of the thumb-screw is to be made; etc. Graduation marks may also be placed on the slide and top surface of the main body, as shown at 18, which latter would be used for positively, rather than relatively, positioning the slide.

19 is a diagonal slot formed in the surface of the slide, a piece of hardened and tempered metal 20 being preferably used. This slot is for the purpose of guiding the hack saw in sawing the ring, and it is accordingly positioned so as to guide the saw through the ring, as indicated in the drawings. When the slide is in central position,

