

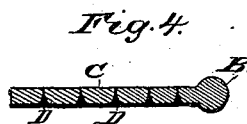
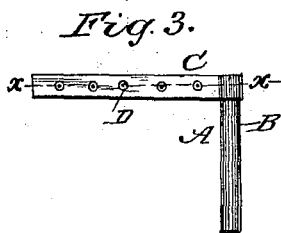
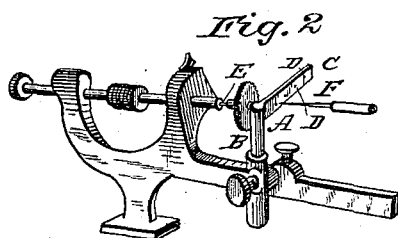
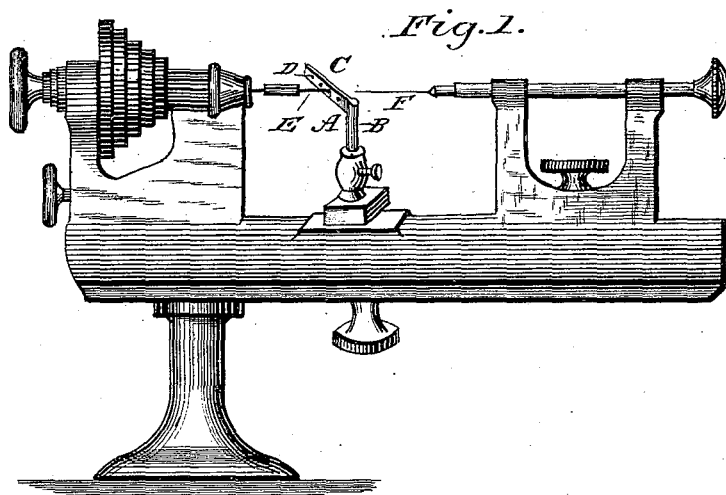
(No Model.)

O. F. MAIN.

ATTACHMENT FOR WATCHMAKER'S LATHES.

No. 291,754.

Patented Jan. 8, 1884.



WITNESSES:

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UNITED STATES PATENT OFFICE.

OSCAR F. MAIN, OF MARION, IOWA.

ATTACHMENT FOR WATCH-MAKERS' LATHES.

SPECIFICATION forming part of Letters Patent No. 291,754, dated January 8, 1884.

Application filed August 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, OSCAR F. MAIN, of Marion, in the county of Linn and State of Iowa, have invented certain new and useful Improvements in Attachments for Watch-Makers' Lathes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of a jeweler's lathe, showing my improved attachment in position.

Fig. 2 is a perspective view of so much of a Swiss jeweler's lathe as will show the attachment in position. Fig. 3 is a side view of the attachment as it appears when detached from the lathe; and Fig. 4 is a section of the attachment on line *x x*, Fig. 3.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to an attachment for watchmakers' or other lathes; and it consists in the improved construction of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, A represents the attachment, which consists of a shank, B, by which it is secured to the lathe by a suitable clamp, and an arm, C, cast at right angles to the shank. A series of holes, D, are drilled through the arm, the said holes being countersunk on one side of the arm, as clearly shown in Fig. 4.

The object of my invention is to enable the operator to readily find the true center of the pinion or other object which he desires to drill, and the manner in which the attachment attains this result is as follows: The end of the

pinion-wire E, Fig. 2, is inserted into the larger end of one of the countersunk holes D, when a slight rotation of the lathe will cause the pinion to find the center of the opening. The end of the drill F is then inserted into the smaller end of the countersunk opening, when it at once finds the center of the pinion E, and the desired aperture can be drilled through the pinion.

From the foregoing description, taken in connection with the accompanying drawings, the manner of using my improved attachment will readily be understood without requiring extended explanation.

It will be seen that my invention is not confined to watch-makers' or jewelers' lathes, but that it can be used on any class of lathes.

The advantages of my improved attachment are that it effects a great saving of time and performs its work with the utmost certainty and exactness.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The described attachment for lathes, consisting of a shank adapted to be adjusted in or in proximity to the hand-rest, and provided with an arm extending at right angles and having a series of apertures countersunk on one side, substantially as shown, and for the purpose set forth.

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

OSCAR F. MAIN.

Witnesses:

E. L. SAMSON,
D. P. THURBER.