(No Model.)

W. C. ROE.

LATHE CENTER.

No. 474,265. Patented May 3, 1892.

Fig. 1.

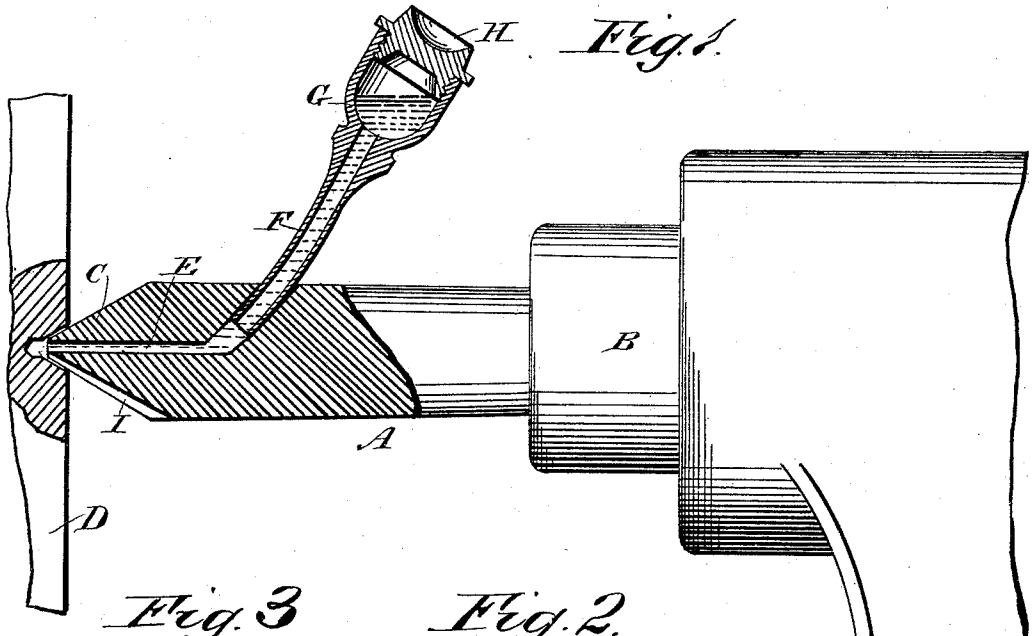
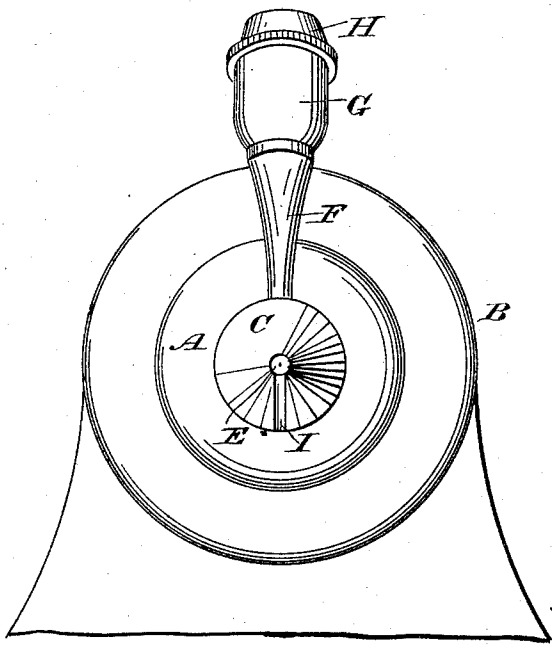


Fig. 3

Fig. 2.



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WILLIAM C. ROE, OF HONOLULU, HAWAII.

LATHE-CENTER.

SPECIFICATION forming part of Letters Patent No. 474,265, dated May 3, 1892.

Application filed July 7, 1891. Serial No. 398,662. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. ROE, of Honolulu, Hawaiian Islands, have invented a new and Improved Lathe-Center, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved stationary lathe-center which is simple and durable in construction and arranged to supply the point and the work revolving thereon with a lubricant to reduce the friction between the work and point to a minimum, and thereby keep the point of the center true and accurately round during the time the work is revolving on the center, thus producing perfectly-turned work.

The invention consists of certain parts and details and combinations of the same, as will be hereinafter described, and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side elevation of the improvement as applied. Fig. 2 is an end view of the improvement, and Fig. 3 is a perspective view of the closing-plug.

The improved lathe-center is provided with tapering shank A, adapted to be supported in the usual manner in the tail-stock B of the lathe. The outer end of the center is formed with a point C, engaged by the work D to be turned. In the point C is arranged a hole E, extending axially, as plainly illustrated in Fig. 1, the inner end being slightly bent upward to connect with a pipe F, inclined rearwardly and supported in the shank A. The upper end of the pipe F is formed with or carries an oil-receptacle G, adapted to be closed by a screw-cap H or other means. From the outer end of the oil-supply a hole E leads a feed-groove I, which extends on the surface of the point C, as plainly illustrated in Figs. 1 and 2, so that the oil passing from the receptacle G through the pipe F and supply-hole E into the said feed-groove lubricates the work held on the point, so that the friction is reduced to a minimum. The pipe F is inclined rearwardly, as shown in Fig. 1, so that the opening in the shank A for the said pipe is likewise inclined and permits a convenient cleaning of the supply-hole E in case the latter gets clogged up. A suitable wire is used for cleaning the supply-hole in the manner above described. A plug J is used for closing the outer end of the supply-hole E when the center is not engaged by the work D. As the receptacle G is in an elevated position relative to the point C, the oil readily flows to the work D and the outer surface of the center, the work in revolving on the center carrying the oil along from the feed-groove I, so that a complete oiling takes place on all the contacting-surfaces between the work and the point of the center. The center can be turned in the tail-stock spindle to stand in any desired position required by the operator for the purpose of lubricating the faces of the centers.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

A lathe-center A, having a conical point, a longitudinal central bore E, leading from the point inward and outward through the center at a rearward incline, a removable lubricating-receptacle having an outlet-tube entering said inclined portion of the bore, and the distributing-groove I, leading from the point of the center along its conical portion, substantially as set forth.

WILLIAM C. ROE.

Witnesses:
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W. J. FORBES.