

W. S. JARBOE.

Apparatus for Grinding Lathe Centers.

No. 134,287.

Patented Dec. 24, 1872.

Fig. 1

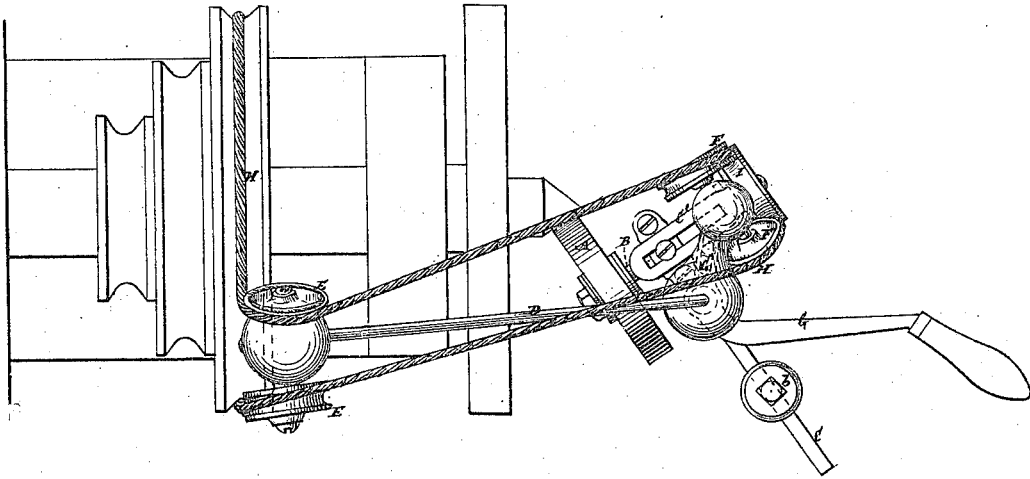


Fig. 2

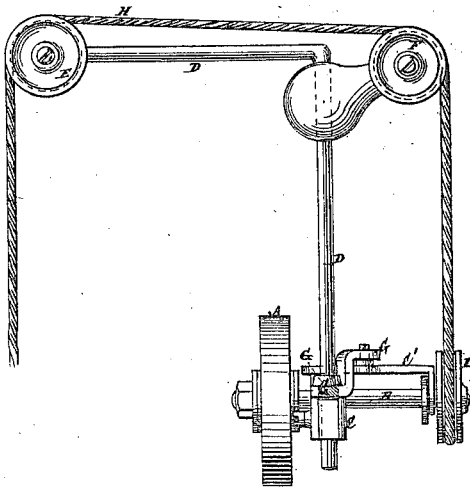
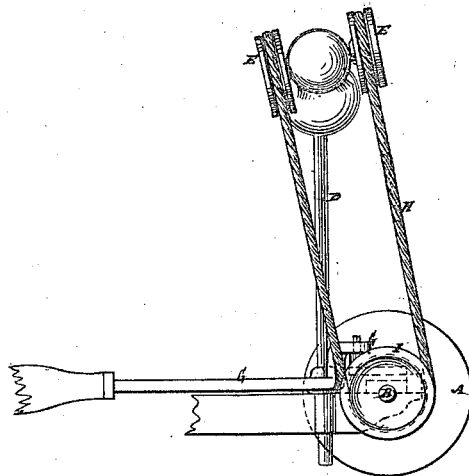


Fig. 3



Inventor.

Walter S. Jarboe

Witnesses:

Thos. Hynes
Ferd. Busch

UNITED STATES PATENT OFFICE.

WALTER S. JARBOE, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND
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IMPROVEMENT IN APPARATUS FOR GRINDING LATHE-CENTERS.

Specification forming part of Letters Patent No. 134,287, dated December 24, 1872.

To all whom it may concern:

Be it known that I, WALTER S. JARBOE, of the city, county, and State of New York, have invented a new and useful Improvement in Apparatus for Grinding Lathe-Centers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a plan of my improved apparatus applied to a lathe-center; Fig. 2 a side view of such apparatus, and Fig. 3 an end view thereof.

Similar letters of reference indicate corresponding parts.

This invention relates to rotary tools for grinding lathe-centers after they are tempered, and while in their places in the lathe. The invention consists in a combination and arrangement of parts whereby the apparatus, which is carried by the tool-post or slide-rest of the lathe, may be operated by power derived from the lathe-mandrel, and every facility is afforded for manipulating or adjusting the grinder to its work, and its operating pulleys or devices to different lathe-mandrels or angular positions of the grinder.

A is the revolving grinder, which may be of any suitable material or composition. B is the shaft on which said grinder is secured. This shaft is arranged in a bearing or frame, C C', the one portion C of which forms an arm for reception, as at *b*, of the apparatus within the tool-post or slide-rest of the lathe, while the other portion, C', of said frame constitutes a sliding yoke or bearing piece proper for the shaft B to make said grinder-shaft a sliding one. The portion C of said frame also serves to carry a standard, D. This standard may be composed of a bent rod, and serves a double purpose, namely, as a support for a series of

guide-pulleys, E E and F F, whereby to rotate the grinder, and also as a fulcrum for a lever, G, which serves through the instrumentality of the bearing portion C to longitudinally slide the shaft B for the purpose of moving the grinder A along or over the lathe-center, as represented in Fig. 1 of the drawing. The guide-pulleys E E and F F serve to pass a band, H, from any one of the mandrel-pulleys of the lathe to a pulley, I, on the sliding grinder-shaft B, and are adjustable on or around the arms of the standard D, as also the latter made adjustable through the portion C of the frame, to provide for adapting the apparatus to different mandrels and lathe-centers. When once adjusted it is only necessary to move the lever G back and forth by hand, when the grinding, so far as regards the rotation of the wheel A is concerned, will be effected by power derived from the revolving mandrel of the lathe.

What is here claimed, and desired to be secured by Letters Patent, is—

1. The combination, with the grinder-shaft arranged in a bearing or frame organized for reception in the tool-post or slide-rest, of a series of guide-pulleys attached to said bearing or frame, and arranged to receive a band from the lathe-mandrel, the whole being constructed and operating substantially as herein specified.

2. The arrangement of the bearing or frame C C', the sliding grinder-shaft B, the lever G, and the standard D, which serves as the fulcrum for the lever and the support for the guide-pulleys, all substantially as herein described.

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Witnesses:

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