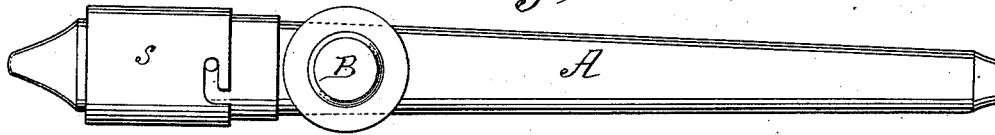


A. A. ROBINSON.
Adjustable Center for Lathes.

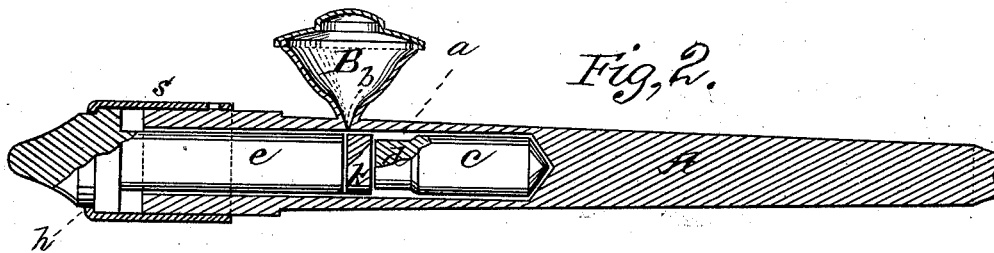
No. 216,703.

Patented June 17, 1879.

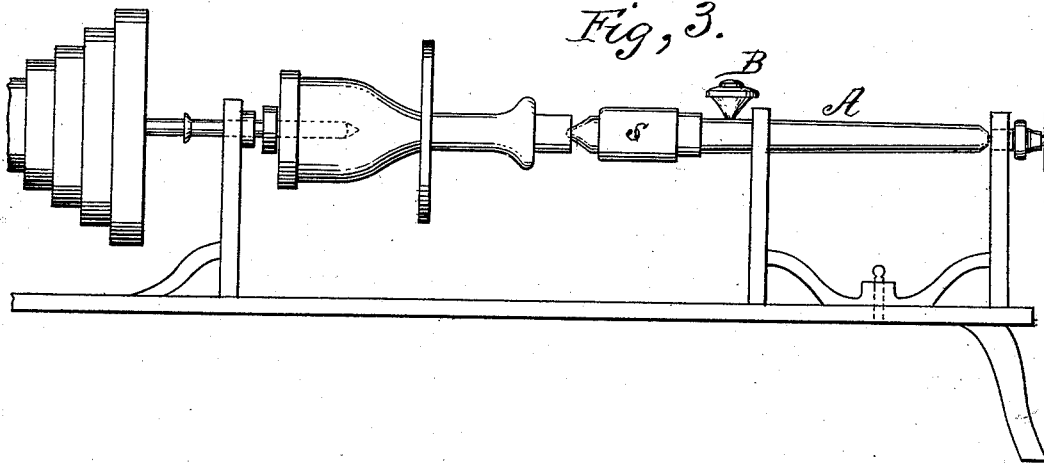
Fig, 1.



Fig, 2.



Fig, 3.



WITNESSES

Villette Anderson.
A. J. Ellasi

INVENTOR

Alpheus A. Robinson
by E. W. Anderson
his ATTORNEY

UNITED STATES PATENT OFFICE

ALPHEUS A. ROBINSON, OF BIRMINGHAM, CONNECTICUT.

IMPROVEMENT IN ADJUSTABLE CENTERS FOR LATHES.

Specification forming part of Letters Patent No. **216,703**, dated June 17, 1879; application filed March 22, 1879.

To all whom it may concern:

Be it known that I, ALPHEUS A. ROBINSON, of Birmingham, in the county of New Haven and State of Connecticut, have invented a new and valuable Improvement in Adjustable Double Wood Bearing Revolving Centers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top view of my invention. Fig. 2 is a longitudinal central section of the same, and Fig. 3 is a side view of the same applied to a metal-spinning machine.

This invention has relation to revolving centers for turning and spinning lathes and other machines; and it consists in the construction and novel arrangement of the double or sectional center-bearings and the intermediate wooden anti-friction bearing in connection with the hollow holder or stock and the oiling-cup, all as hereinafter shown and described.

In the accompanying drawings, the letter A designates the hollow holder or stock, having a cylindrical bore, *a*, in which the center-sections revolve. This holder is provided with an oil-cup, B, which communicates with the interior of the holder through an aperture, *b*, which is arranged at a distance from the bottom of the bore a little greater than the length of the deep section or center *c*. This section or center is located in the bottom of the bore, being inserted first, and is usually turned down to less diameter for a short distance in front, as shown at *d*, to form a way for the oil. The main or engaging section or center, *e*, is provided with a flanged point of the usual character, and a cylindrical body, which extends into the bore of the holder next to a short wooden-cylinder block, *k*, which is introduced

next after the deep section *c*, and therefore lies between the ends of the sections in the bore and just under the oiling-aperture *b*. Over the flanged point, and extending back upon the holder, is arranged a guard-sleeve, *s*, which is connected to the holder by means of an angle-slot and stud, and is flanged at *h*, to engage with the flange of the point-section, keeping it clear and preventing the oil from flying out.

This center is designed to be non-heating, for the wooden cylinder absorbs oil, and the center-sections, working against it at both ends, are kept lubricated. Should, however, one of the bearings get dry, the other will turn freely, and a great saving is effected in the expensive grease which is required in work of this character. This center requires but little attention, and will last many times longer than the solid center. The main wear in this double-bearing center is on the wooden piece, which is easily and cheaply replaced. This center may be adjusted to greater or less length by varying the length of the intermediate wooden piece.

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

1. The double-bearing revolving center consisting of the hollow holder, the center-sections *c c*, and the intermediate wood bearing, *k*, substantially as specified.

2. The combination, with a hollow holder having an end guard, *s*, and a lubricating-cup, B, opening at *b* into the bore of said holder, of the center-sections *c c*, and the wood bearing *k* between said center-sections and under the aperture *b*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ALPHEUS A. ROBINSON.

Witnesses:

JOHN C. REILLY,
D. B. BRADLEY.