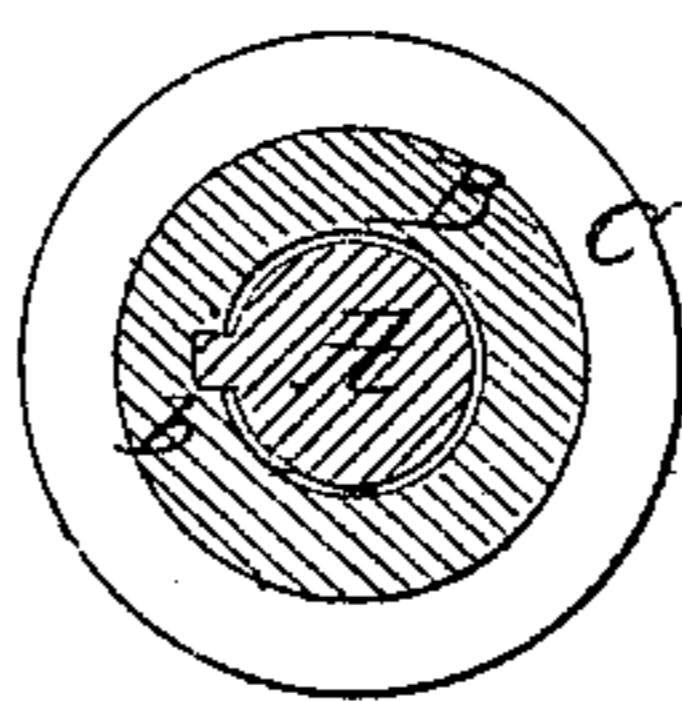
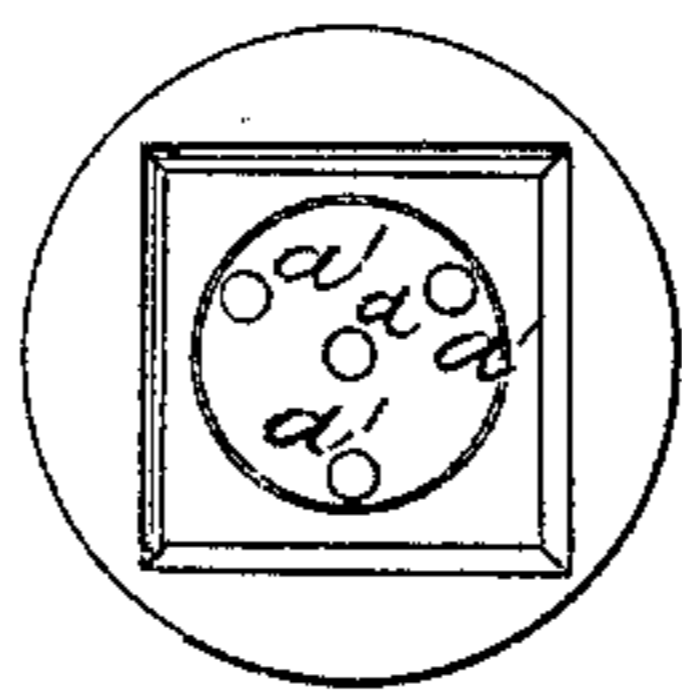
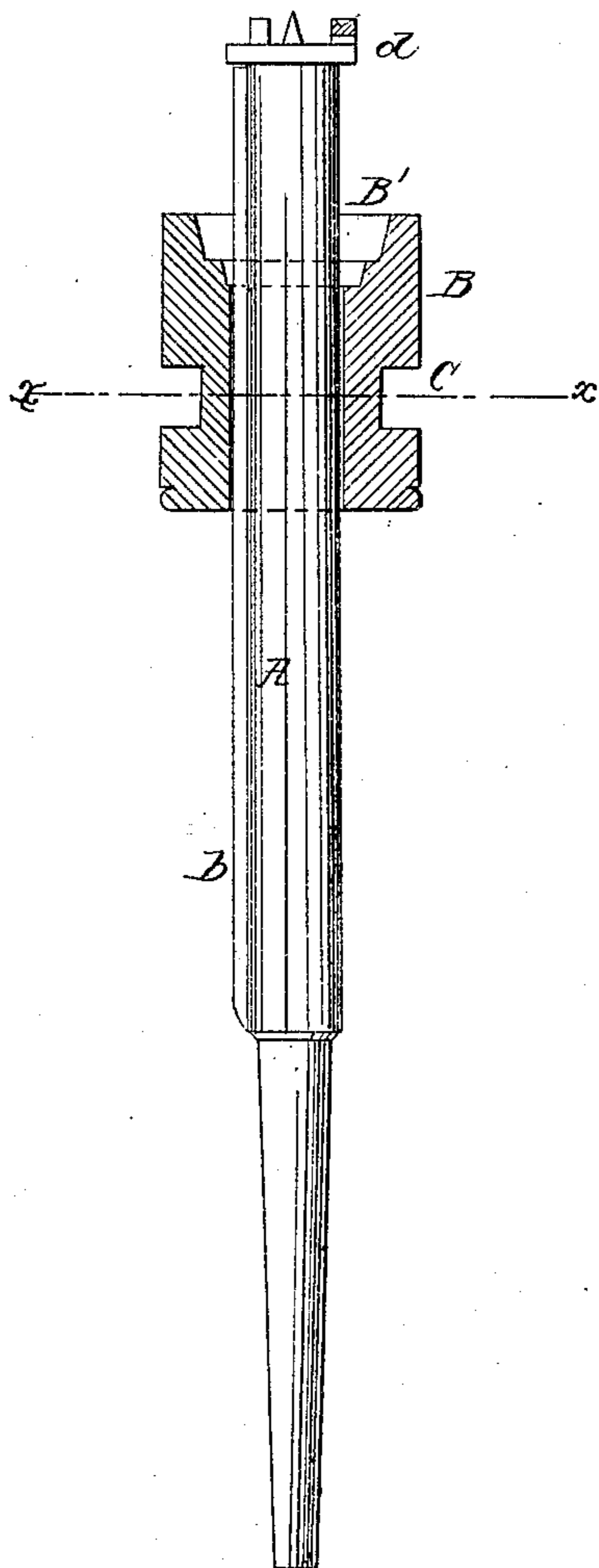


A. J. Van Ornum,

Lathe Tool.

N^o 78,341.

Patented May 26, 1868.



Witnesses.

Alex J. Roberts
W. C. Ashkettle

Inventor

A. J. Van Ornum

per

Mumford
Attorneys

United States Patent Office.

A. J. VAN ORNUM, OF HARTFORD, VERMONT.

Letters Patent No. 78,341, dated May 26, 1868.

IMPROVEMENT IN WOOD-TURNING LATHES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, A. J. VAN ORNUM, of Hartford, in the county of Windsor, and State of Vermont, have invented a new and useful Improvement in Lathes for Turning Wood; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side elevation of a "centre" of the mandrel of a turning-lathe, and a longitudinal section of the socketed sleeve.

Figure 2 is a front end view of the "centre" and socketed sleeve.

Figure 3 is a section on the line *xx* of fig. 1.

Similar letters of reference indicate like parts.

The nature of my invention relates to improvements in wood-turning lathes, whereby it is designed to provide a more simple and efficient apparatus for use in turning rake, fork, broom, and other similar handles.

It consists in providing a sliding sleeve on the mandrel of the lathe, having a square socket in one end, which, in combination with the spurs in the end of the mandrel, serves to hold the shaft of wood while it is being turned from the other end by the sliding tool of ordinary construction, until the said tool comes in contact with the end of the said sleeve, when the latter will be shoved back by the tool, whereby the whole length of the shaft may be turned, as will be more fully described on reference to the accompanying drawings.

A represents the "centre" of a lathe-spindle, and is provided with the usual centre spur *a* and the small socketed spur *a'*, and a splein, *b*.

B represents a sleeve, fitted to the said centre, so as to rotate with it and slide thereon, and is provided with a square socket, B', in the front end, and the annular groove C, the object of which is to assist the spurs in holding the blank shaft of wood which is to be turned. When the spurs are used alone they are liable to split the end of the blank, and as socketed centres have been heretofore used, they have prevented the tool from passing over the end of the blank, thereby wasting a considerable portion of the same.

In the use of my invention, I provide a crotched rod, which is hinged to the floor, under the sleeve B, and arranged so that the upper crotched end takes into the annular groove C.

To the said rod, at any convenient point, I fasten a cord, which I pass over a pulley, and fasten the other end to a weight, and arrange the same so as to draw the sleeve towards the tail-stock of the lathe. When the blank, which has been previously squared on the end, has been centred in the lathe, the sleeve is slipped on to the said square end, which is usually made large enough to bind in the socket.

The latter, with the spurs, holds it while being turned up from the other end, as is well understood.

I provide a pin on the stock of the sliding cutter, so arranged that when the cutting-tool arrives near to the sleeve, the said pin will strike the sleeve or the crotched end, and push it away from contact with the blank, which permits the cutters to turn the said blank to the end, whereby a considerable amount of material is saved, and the loss of time required in sawing off the otherwise unfinished part.

The sleeve may also be held in contact with the blank by a spring arranged behind it, as will be well understood. A ring, *d*, on the end of the "centre," prevents the sleeve from sliding off.

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

The sleeve B, having a square socket, B', and adapted to rotate with and be moved longitudinally upon the centre A, substantially as and for the purpose herein set forth.

The above specification of my invention signed by me, this 24th day of March, 1868.

A. J. VAN ORNUM.

Witnesses:

CHAS. H. TENNEY,
BENJAMIN DUTTON.