

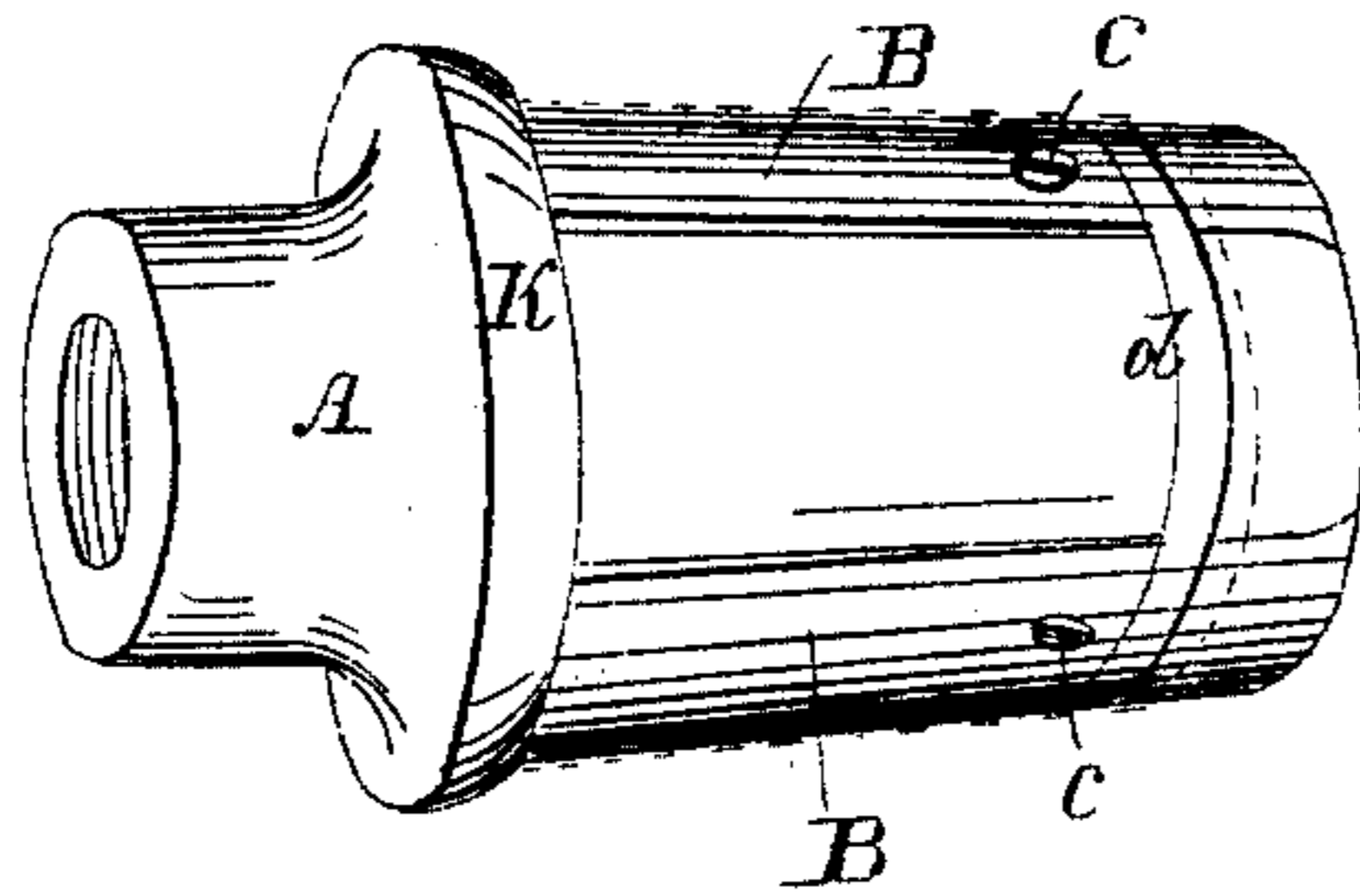
G. WILLIAMSON.

Work Holder.

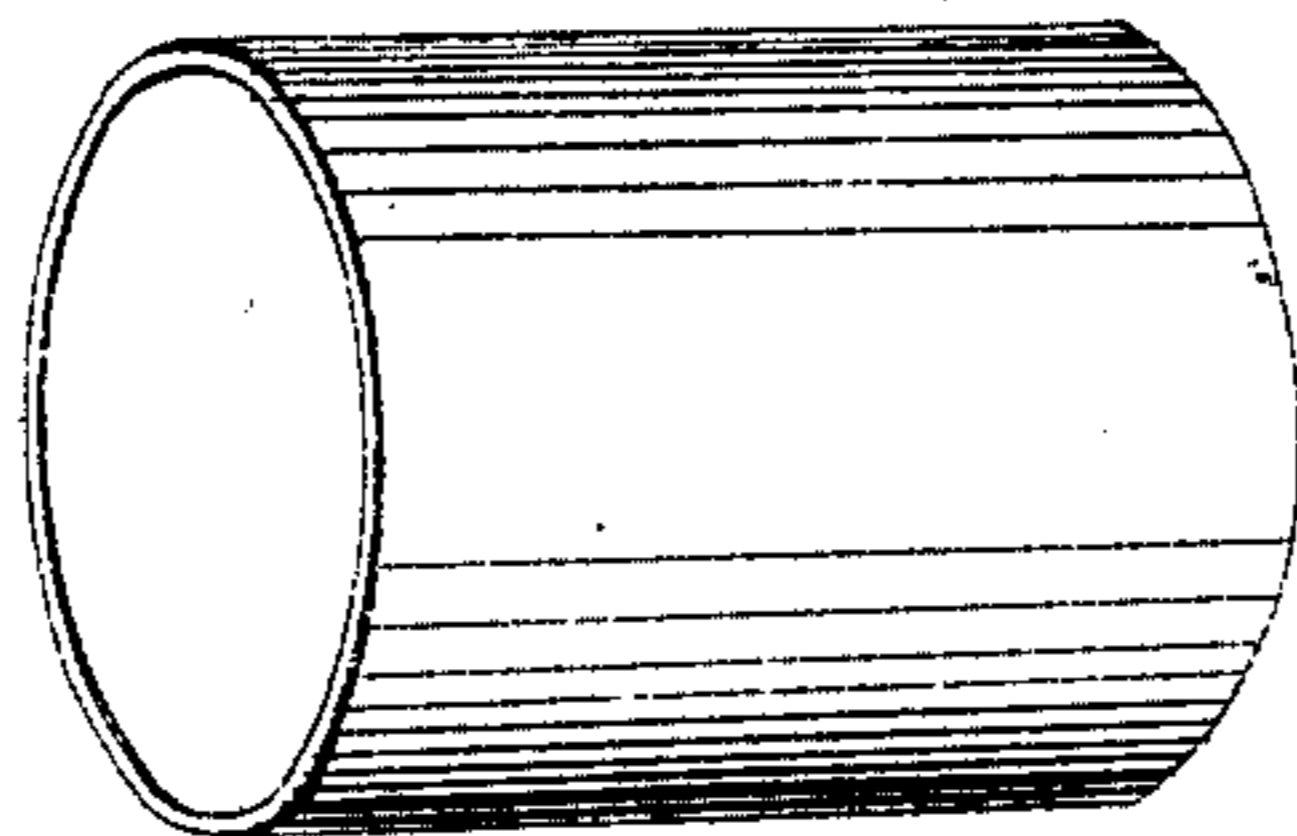
No. 30,660.

Patented Nov. 13, 1860.

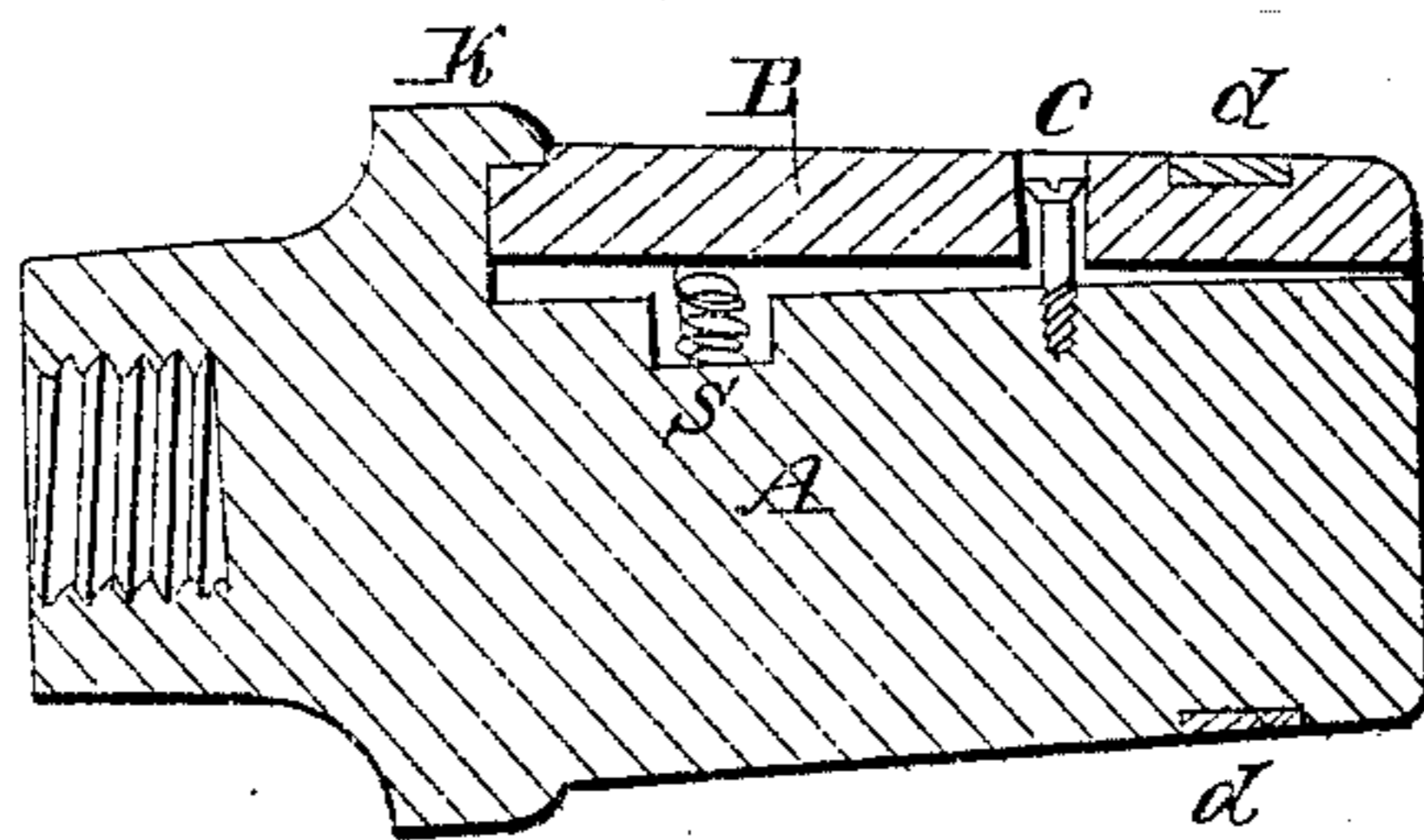
*Fig: 1.*



*Fig: 2.*



*Fig: 3.*



Witnesses:

*Amos E. McArthur*  
*Charles H. Blanch*

Inventor:

*George Williamson*

# UNITED STATES PATENT OFFICE.

GEORGE WILLIAMSON, OF NEWARK, NEW JERSEY, ASSIGNOR TO L. S. GOBLE AND H. E. RICHARDS, OF SAME PLACE.

## CLAMP FOR HOLDING CYLINDERS TO BE POLISHED.

Specification of Letters Patent No. 30,660, dated November 13, 1860.

*To all whom it may concern:*

Be it known that I, GEORGE WILLIAMSON, of the city of Newark, in the county of Essex and State of New Jersey, have invented  
5 a certain new and useful Improvement in Revolving Center-Blocks Upon Which to Sandpaper or Polish the Exterior Surface of Wooden Boxes; and I do hereby declare that the following is a full, clear, and ex-  
10 act description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, is a perspective view, Fig. 2, a perspective view of a part of a wooden box  
15 to polish the exterior of which the center block, Fig. 1, is constructed and adapted, and Fig. 3, is a longitudinal section of Fig. 1.

The same letters indicate like parts in all  
20 the figures.

A, Figs. 1 and 3, is a block of wood or metal, adapted to be screwed upon the end of an upright shaft which shall project slightly above the top of a bench or table.

25 B, Figs. 1 and 3, is one of three staves or sections, fitted as represented into the solid part of the block A. These staves or sections are partially held in place by the screw *c*, but free to move on *c*, and are further secured by the elastic band *d*, which  
30 passes in a groove around the whole block, as represented in Fig. 1. Underneath each of the sections B, is a spiral spring shown at *s*, Fig. 3. The sections B, are free to move  
35 in and out from the center at the bottom, and when not inclosed and restrained by the box are held out at the bottom, by means of the elasticity of the spring *s*, and band *d*,

substantially as shown in Fig. 3, and when so held out, compose sections of a larger  
40 circle than the main part of the block A.

The operation is as follows: The block Fig. 1, being set to revolve rapidly—and the wooden cylinder Fig. 2, requiring to have its exterior sand papered or polished, is  
45 placed and pressed down upon the revolving block Fig. 1. The sections B, will yield to the inequality of the cylinder and accommodate themselves to its size, at the same time grasping the cylinder, as it were,  
50 from within and causing it to revolve with the block, and while thus revolving it may be sand papered or polished as required. The red lines in Fig. 1, show the position of the cylinder when on the block. By a sud-  
55 den and rapid movement of the hands, the cylinder may be taken from the block while revolving and another substituted in its stead all without arresting the revolution of the block. The flange K, Figs. 1 and 2, of  
60 the main block A, prevents the sections B, from springing out farther than required, and said sections are cut down as represented at the point K, to permit the necessary movement.  
65

What I claim as my invention and desire to secure by Letters Patent of the United States is—

The combination of the section B, flange K spring *s* screw *c*, and band *d* substantially in the manner and for the purpose described.  
70

GEORGE WILLIAMSON.

Witnesses:

JAMES E. McBETH,  
CHARLES H. BLANCH.