

(No Model.)

J. S. WINSOR, Jr.  
HOLDER FOR REAMING TOOLS.

No. 366,908.

Patented July 19, 1887.

Fig. 1.

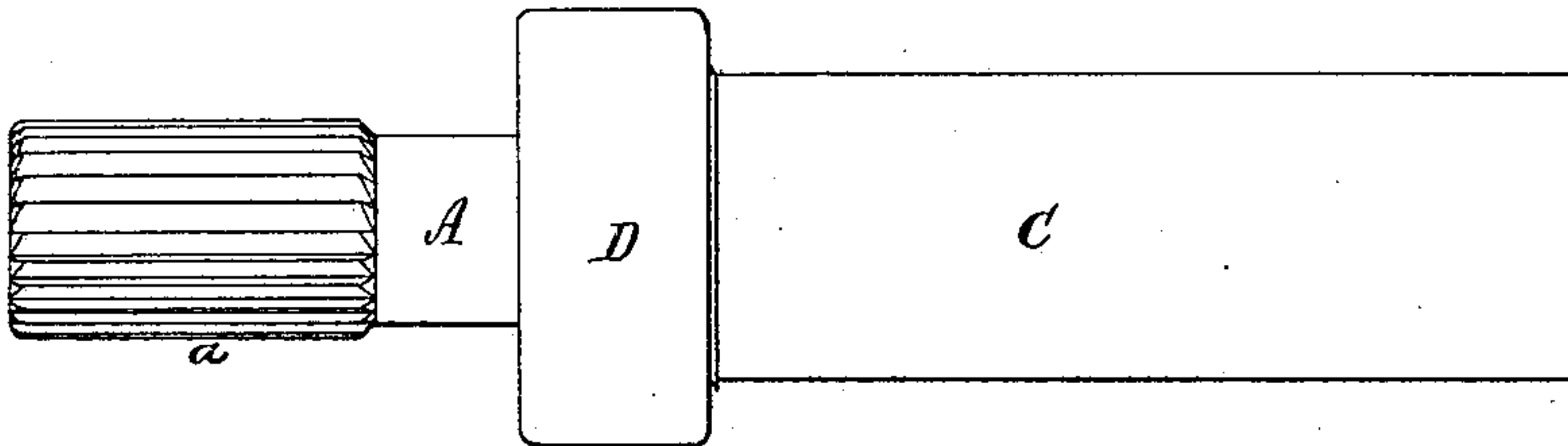


Fig. 2.

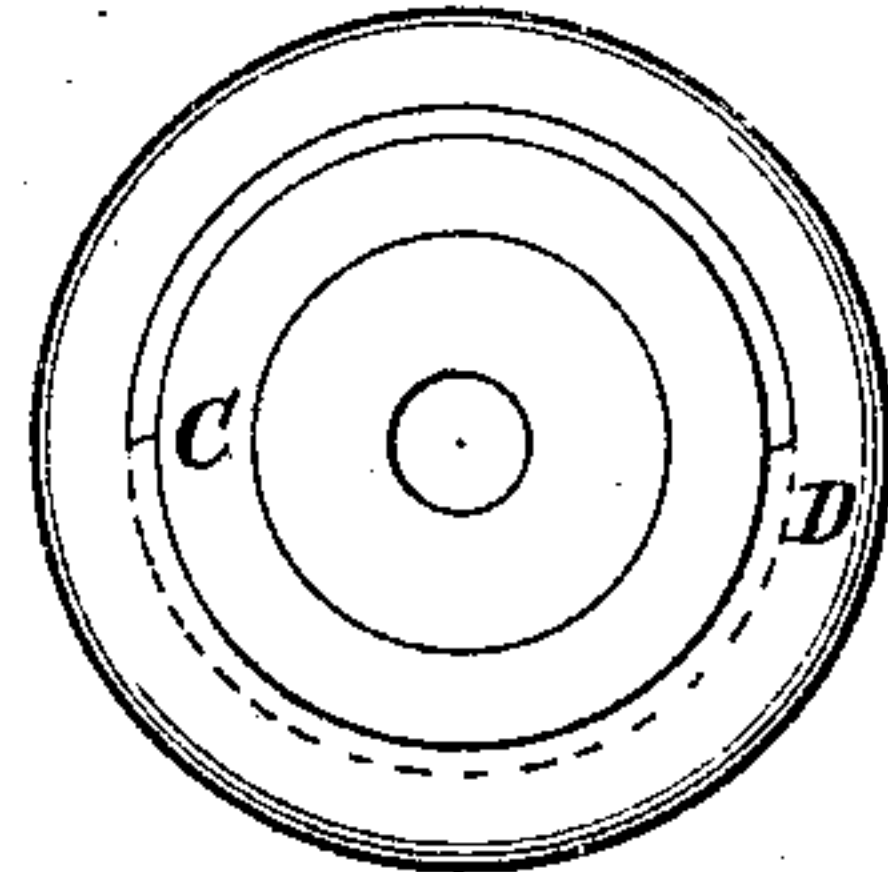


Fig. 3.

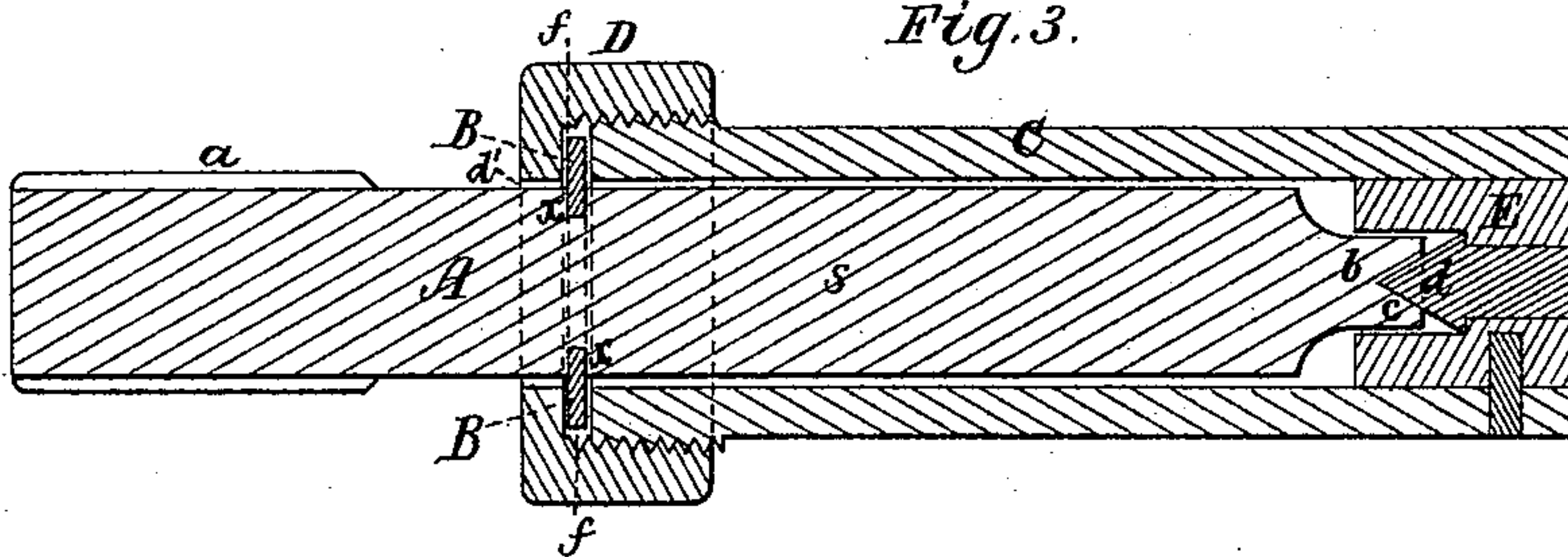


Fig. 4.

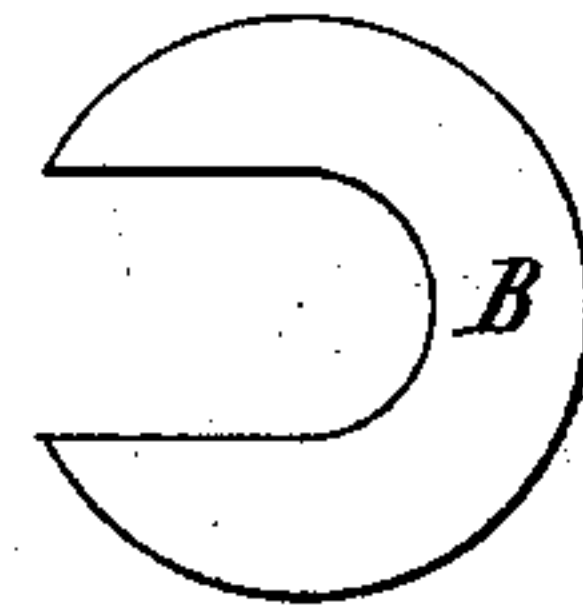


Fig. 5.

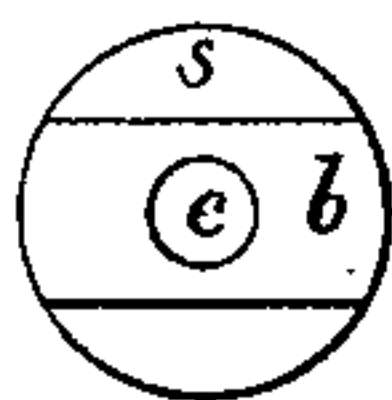
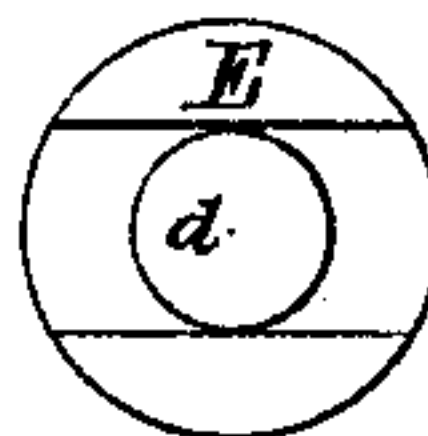


Fig. 6.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## HOLDER FOR REAMING-TOOLS.

SPECIFICATION forming part of Letters Patent No. 366,908, dated July 19, 1887.

Application filed March 26, 1887. Serial No. 232,596. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH SPRAGUE WINSOR, Jr., of the city and county of Worcester, of the Commonwealth of Massachusetts, have  
5 invented a new and useful Improvement in Reaming-Tool Holders; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

10 Figure 1 is a side view, Fig. 2 a rear end view, and Fig. 3 a longitudinal and median section, of a self-centering reamer and its holder of my invention, the nature of which is defined in the claim hereinafter presented.  
15 Fig. 4 is a side view of the spanner. Fig. 5 is a rear end view of the reamer, and Fig. 6 is an inner end view of the cylindrical block E and its pivot.

In such drawings, A denotes the reamer,  
20 which at a short distance from its cutting-head *a* is channeled or grooved transversely, as shown at *x*, to receive a ring section or spanner, B, a side view of which is represented in Fig. 4. The said spanner clasps the reamer-shank *s*, which is inserted within a tubular  
25 carrier, C, until the spanner bears against or nearly touches the front end of such carrier, a cap, D, through which the shank also goes, being screwed upon the said carrier at its  
30 front end. At its rear end the shank has a prismoidal projection, *b*, extending from it, and in the central part of such projection there is a conical recess, *c*, to receive a conical pivot, *d*, extending from a cylindrical block,  
35 E, inserted and fixed firmly in the rear end part

of the carrier C. This block is slotted diametrically to receive the projection *b*, and with it operates to prevent the reamer from revolving within the carrier.

The shank of the reamer has a diameter 40 somewhat less than that of the bore of the carrier C and the central hole, *d'*, in the cap D, through which the shank passes. The diameter of the spanner is also somewhat less than that of the chamber *f* of the cap, the whole 45 being to allow of the stock vibrating a little within the carrier, as occasion may require, for the reamer to properly adapt itself to a hole to be reamed. The reamer may thus be termed "self-adjusting" or "centering," 50 when the carrier is firmly held in and revolved by a lathe-arbor or other means usually employed for putting it in revolution.

I claim—

The combination of the tubular carrier C, 55 the cylindrical block E, provided with the conical pivot and the diametric slot and inserted and fastened in such carrier at its rear end, the cap screwed upon the front end of such carrier, the reamer A, grooved transversely 60 in its shank and terminating at its rear end in the prismoidal projection *b*, provided with the conical recess *c*, and the spanner B, inserted in the groove of the shank, all being substantially as set forth.

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Witnesses:

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