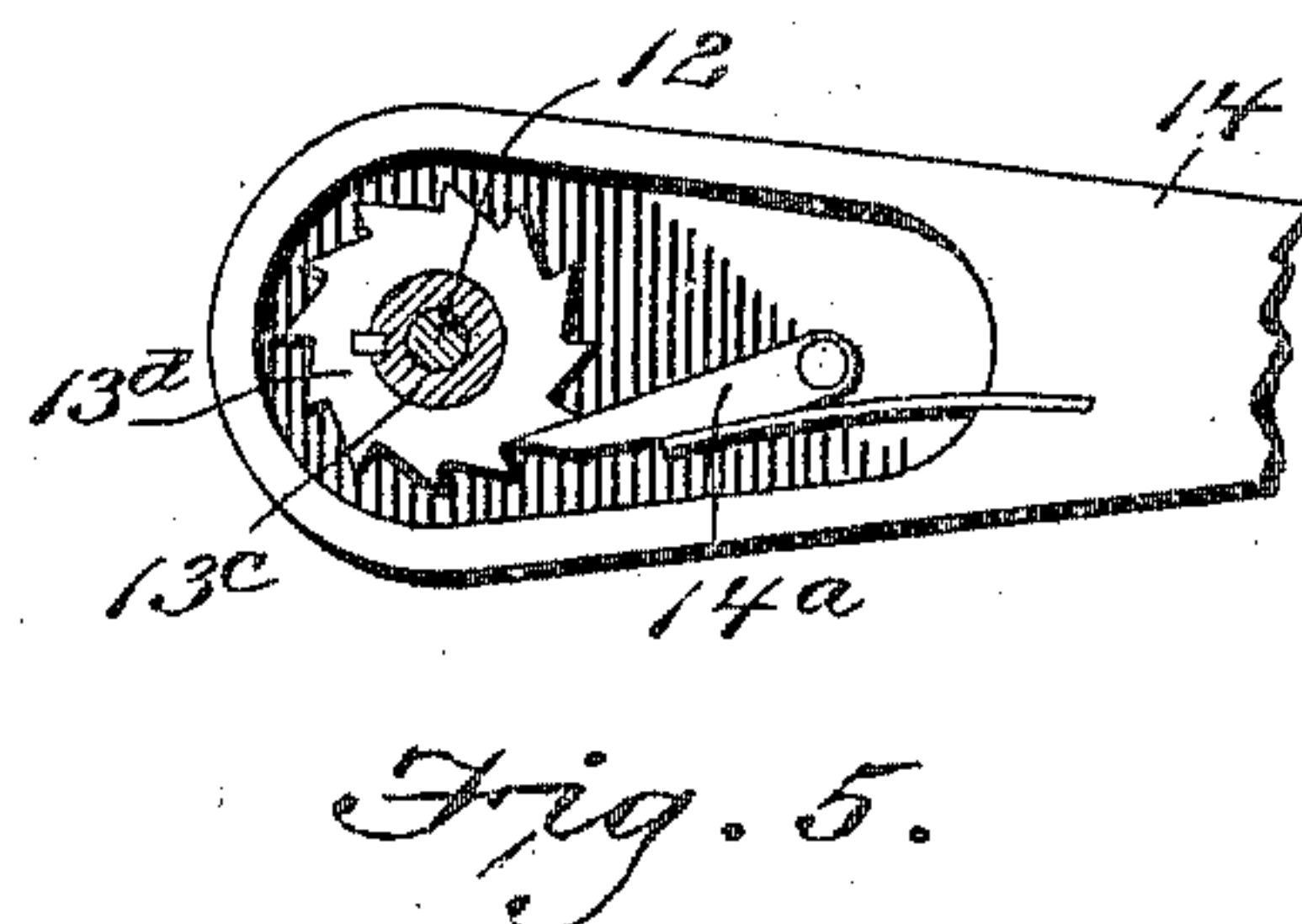
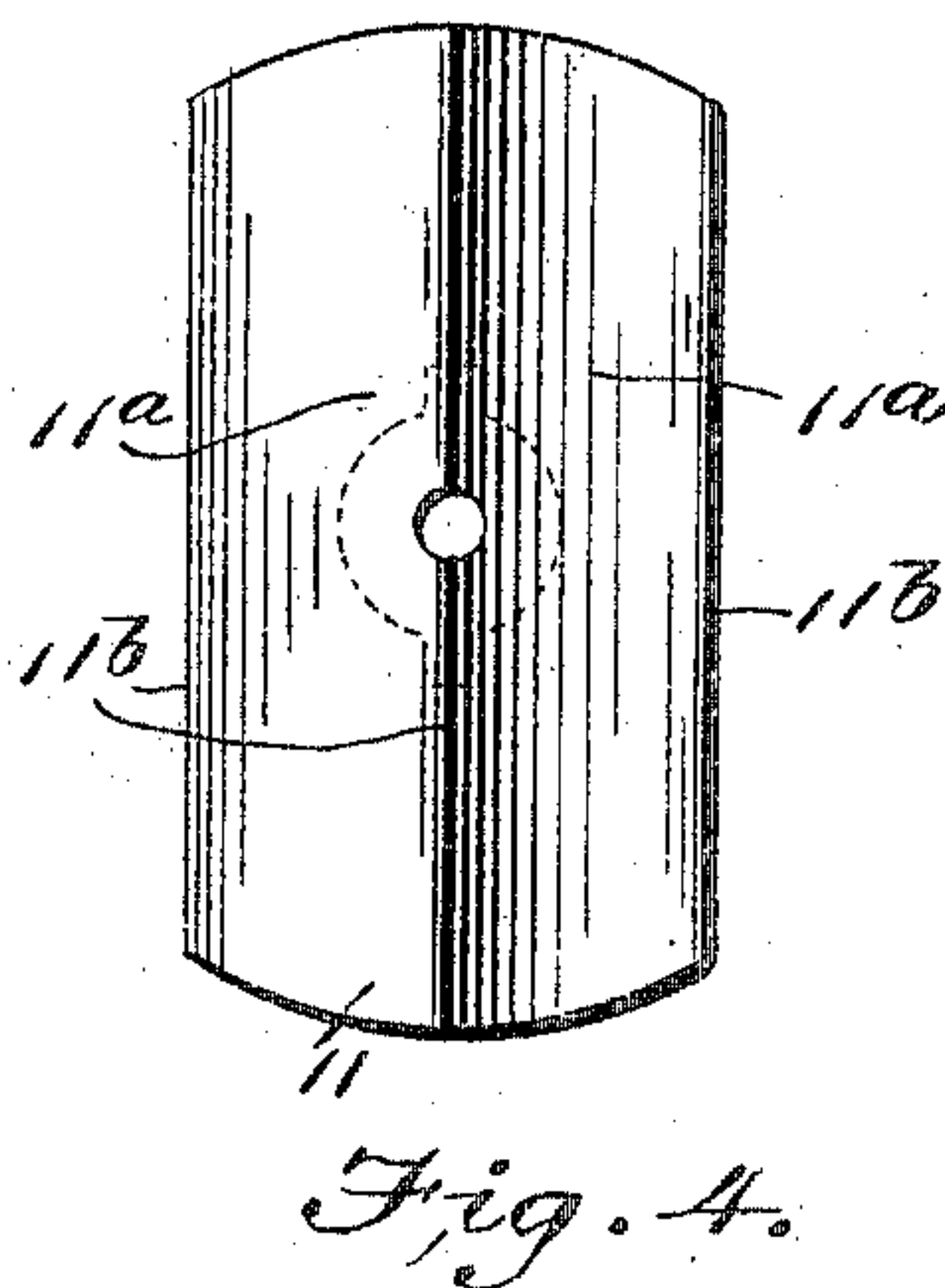
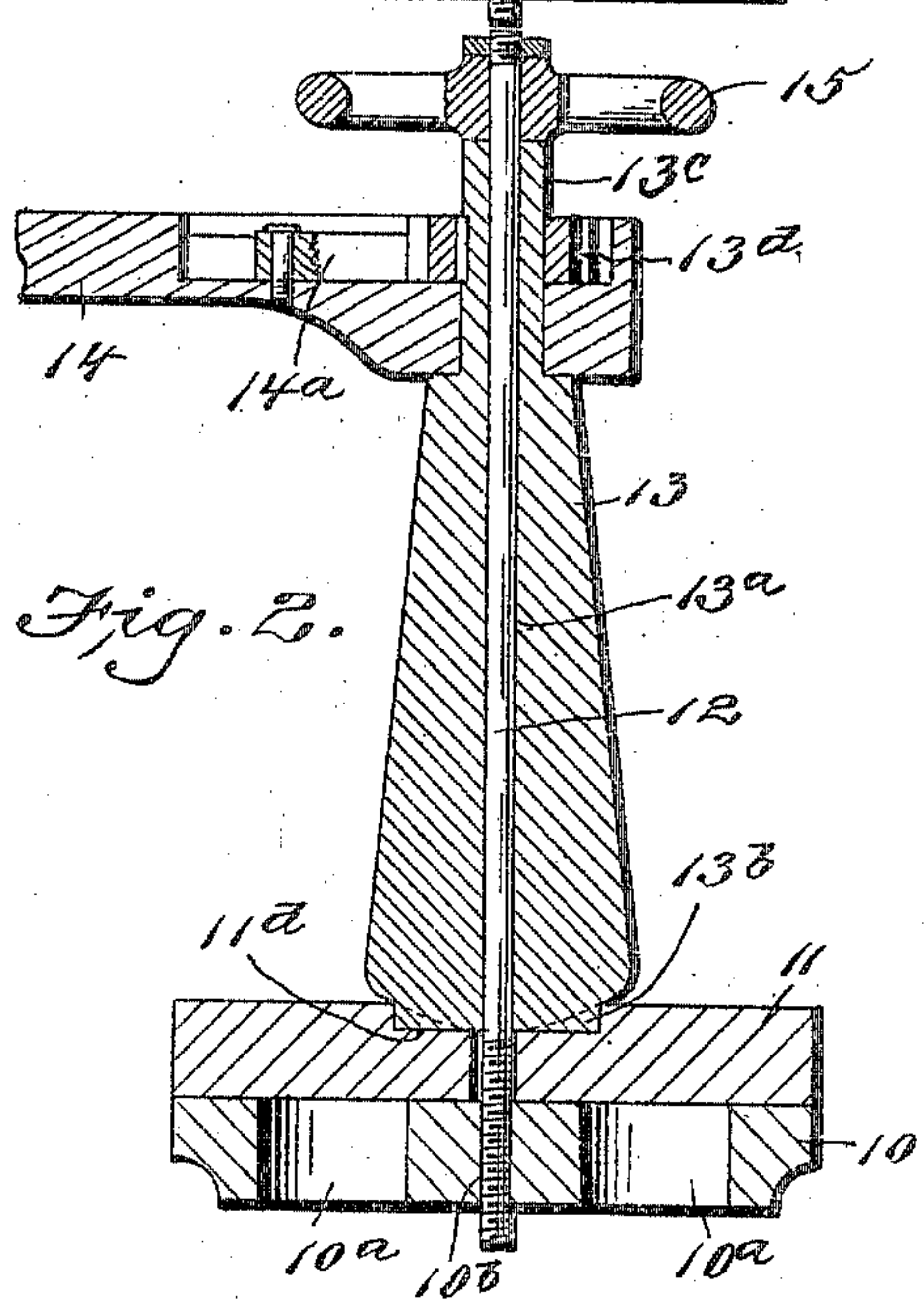
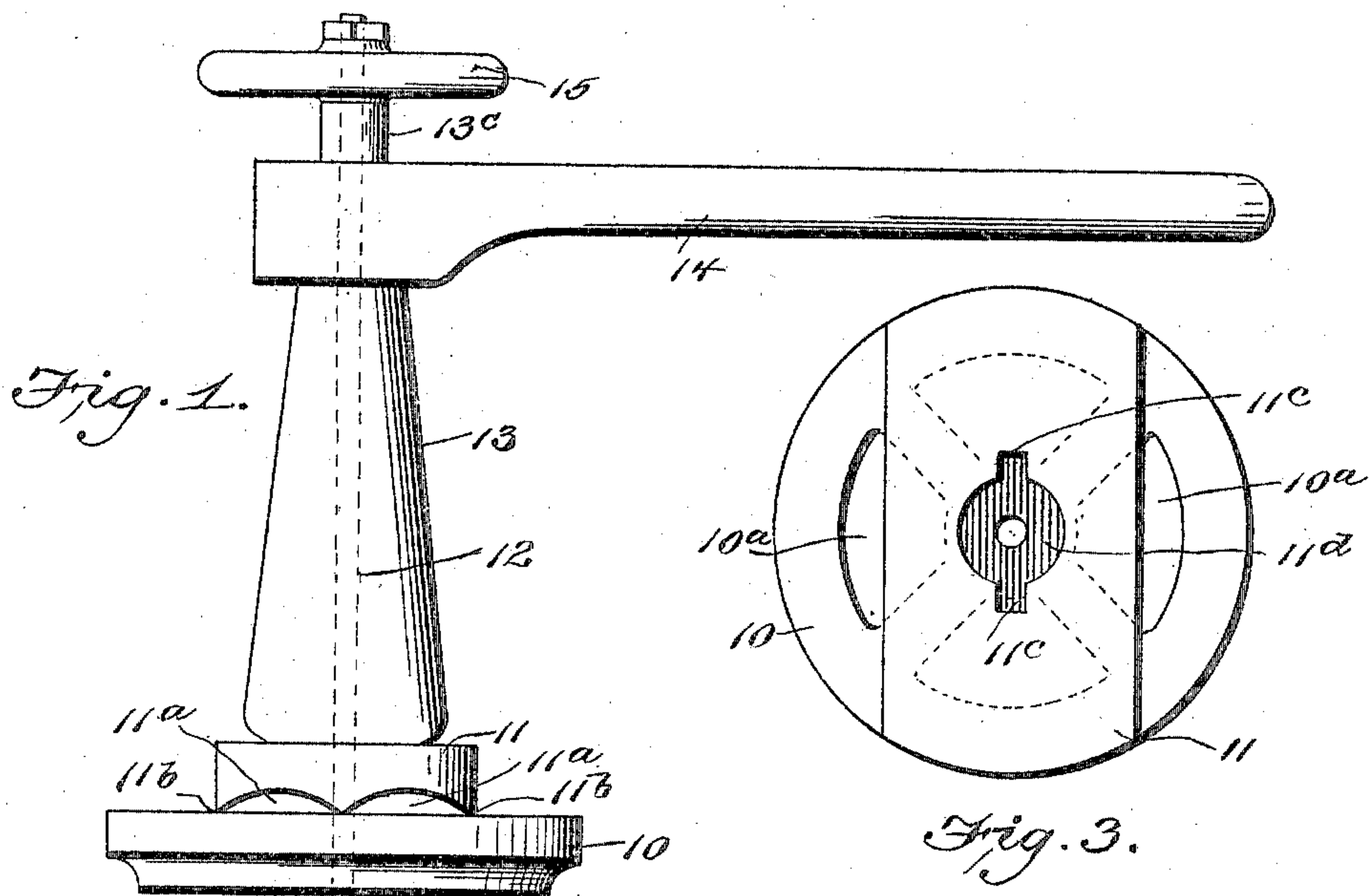


No. 817,260.

PATENTED APR. 10, 1906.

D. E. LYNAM.  
VALVE SEAT DRESSING DEVICE.

APPLICATION FILED OCT. 4, 1905.



Witnesses

*W. A. Schmidt*  
*Geo. E. Tew*

*Daniel E. Lynam,* Inventor  
*By Milo B. Stevens & Co.* Attorney.

# UNITED STATES PATENT OFFICE.

DANIEL E. LYNAM, OF CHICAGO, ILLINOIS.

## VALVE-SEAT-DRESSING DEVICE.

No. 817,260.

Specification of Letters Patent.

Patented April 10, 1906.

Application filed October 4, 1905. Serial No. 281,252.

*To all whom it may concern:*

Be it known that I, DANIEL E. LYNAM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Valve-Seat-Dressing Devices, of which the following is a specification.

This invention consists of a device intended to be connected to a valve-seat plate for the purpose of dressing or refitting the said seat, so that the wearing-surface of the same will have an even or uniform flat surface. This is accomplished by a grinder attachable by means of a screw-threaded rod passing through a central hole in the grinding-blade and is screwed into a threaded hole in the valve-seat plate, and the grinder is operated by a ratchet-handle and has means for adjusting the pressure on the same.

In the accompanying drawings, Figure 1 is a side view of a valve-seat piece and the grinding attachment. Fig. 2 is a sectional elevation of the same. Fig. 3 is a plan view of the grinder and the valve-seat. Fig. 4 is a bottom view of the grinder, and Fig. 5 is a detail of the ratchet device.

Referring specifically to the drawings, 10 indicates the valve-seat piece or plate having openings 10<sup>a</sup> through the same and a central screw-threaded hole 10<sup>b</sup>.

11 is the grinding or cutting blade. This consists of a plate having two longitudinal concave surfaces 11<sup>a</sup> on the lower side, the edges 11<sup>b</sup> forming cutting edges for grinding the valve-seat. The grinding-piece 11 has a central hole (not threaded) through which the rod 12 passes, the said rod being screwed into the valve-seat piece 10. The grinder 11 has a circular socket 11<sup>d</sup> in the top, at the opposite edges of which are notches 11<sup>c</sup>.

13 is a handhold, which consists of a vertical post having a bore 13<sup>a</sup>, through which the rod 12 passes, the lower end of the post being provided with two projections 13<sup>b</sup>, which engage the notches 11<sup>c</sup> in the grinder. The upper end of the post has a hollow stem 13<sup>c</sup>, which passes through a ratchet device, consisting of a ratchet-wheel 13<sup>d</sup>, fixed to the stem 13<sup>c</sup> and a handle 14, mounted on the stem and provided with a pawl 14<sup>a</sup>, which operates the ratchet-wheel. 15 is an adjusting-wheel nut on the screw-rod 12 for regulating the pressure of the grinder against the valve-seat.

In use the rod 12 is screwed into the valve-seat piece and the grinding-plate tightened against the same by the wheel-nut 15. Then by holding the seat-piece in a vise or the like the grinder may be turned and the seat ground down flat and true.

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

A valve-seat-dressing device comprising a rod threaded at one end to engage the work and at the other to receive a nut, a plate on the rod having cutting edges on its face and notches in its back, an elongated handle-post sleeved on the rod behind the plate and having projections at its lower end engaging the notches and a reduced stem at its upper end provided with a ratchet-wheel, and a handle fitting upon said stem and having a pawl engaging the ratchet.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DANIEL E. LYNAM.

Witnesses:

SIGNA FELTSKOG,  
H. G. BATCHELOR.