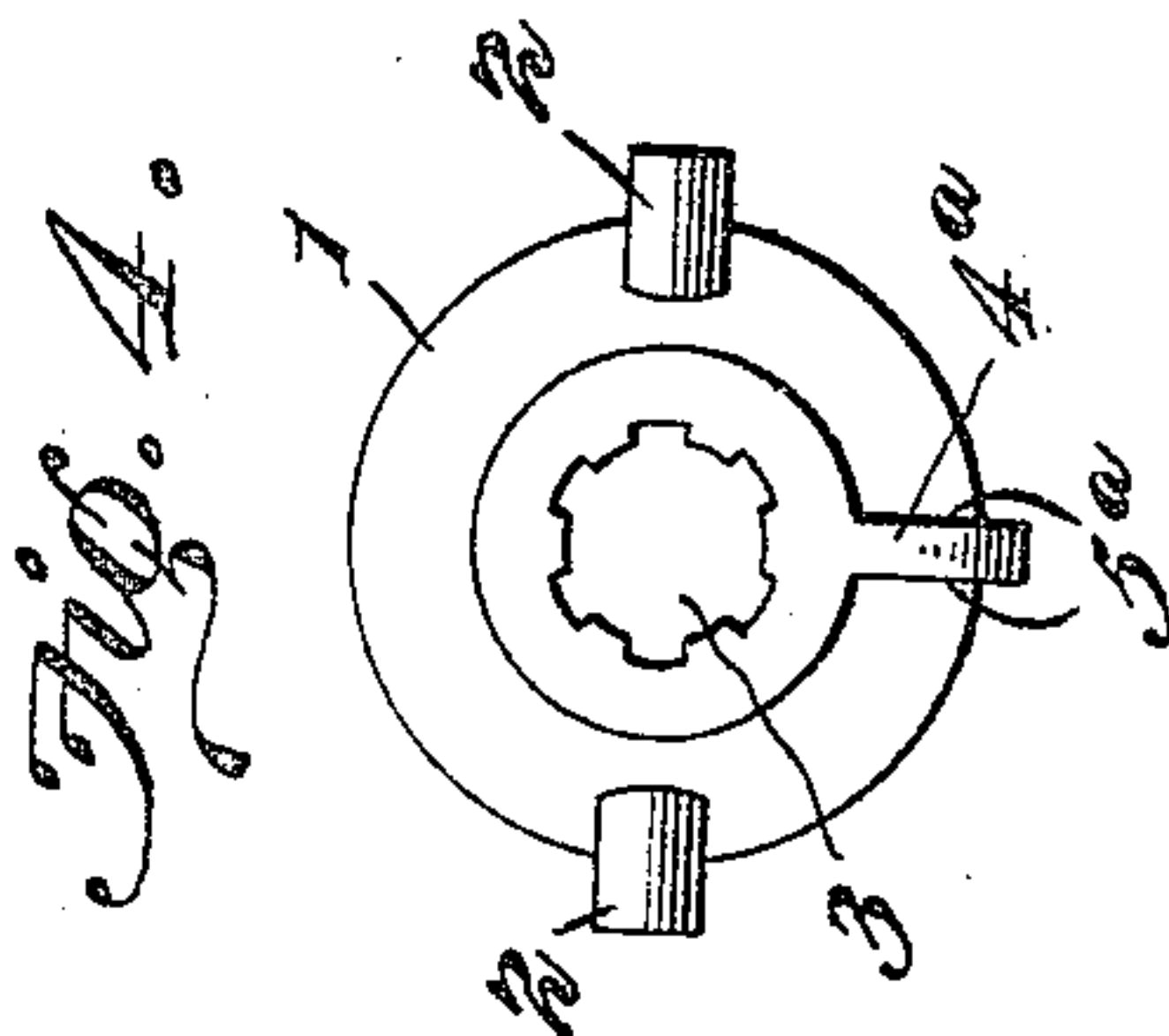
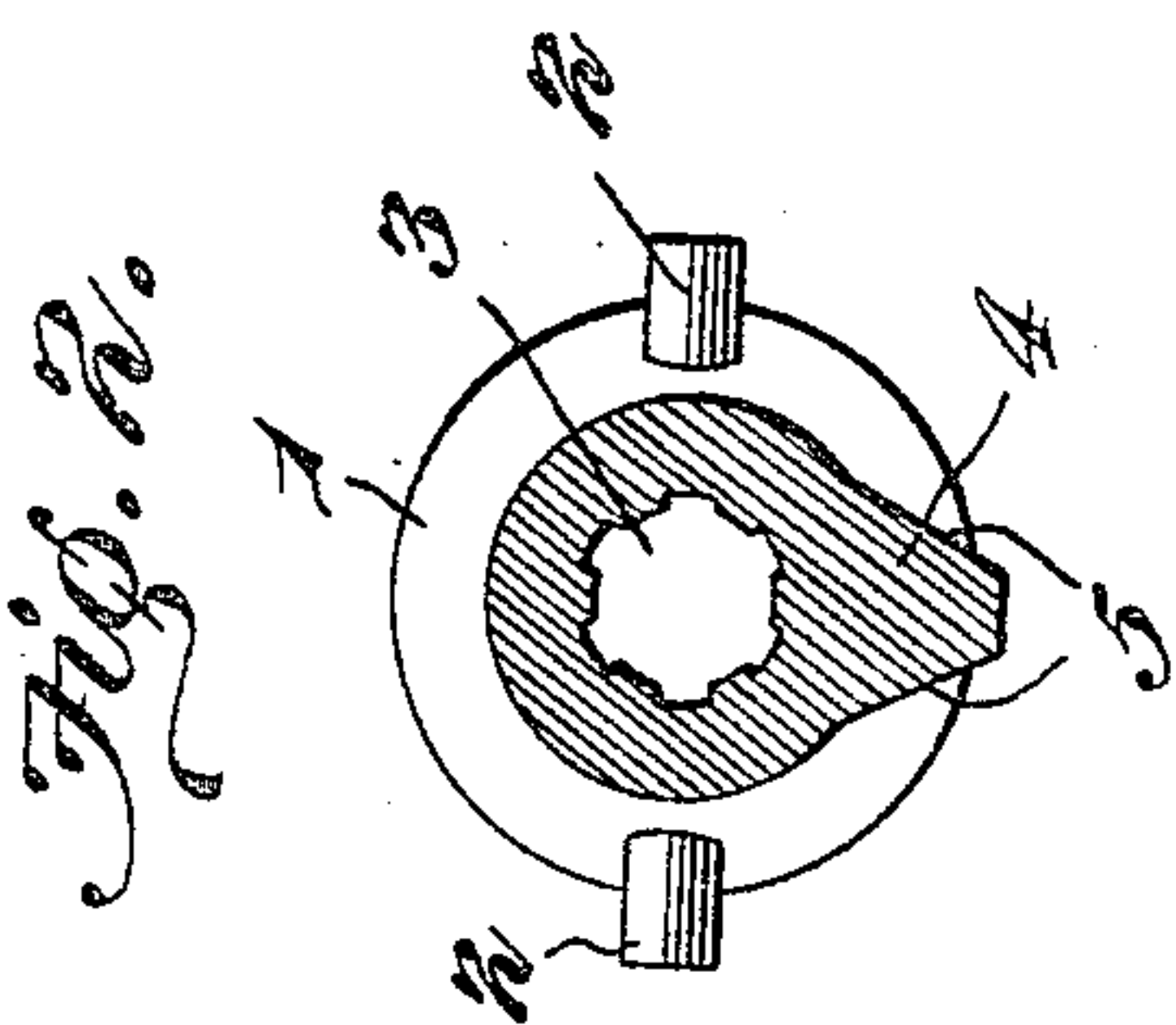
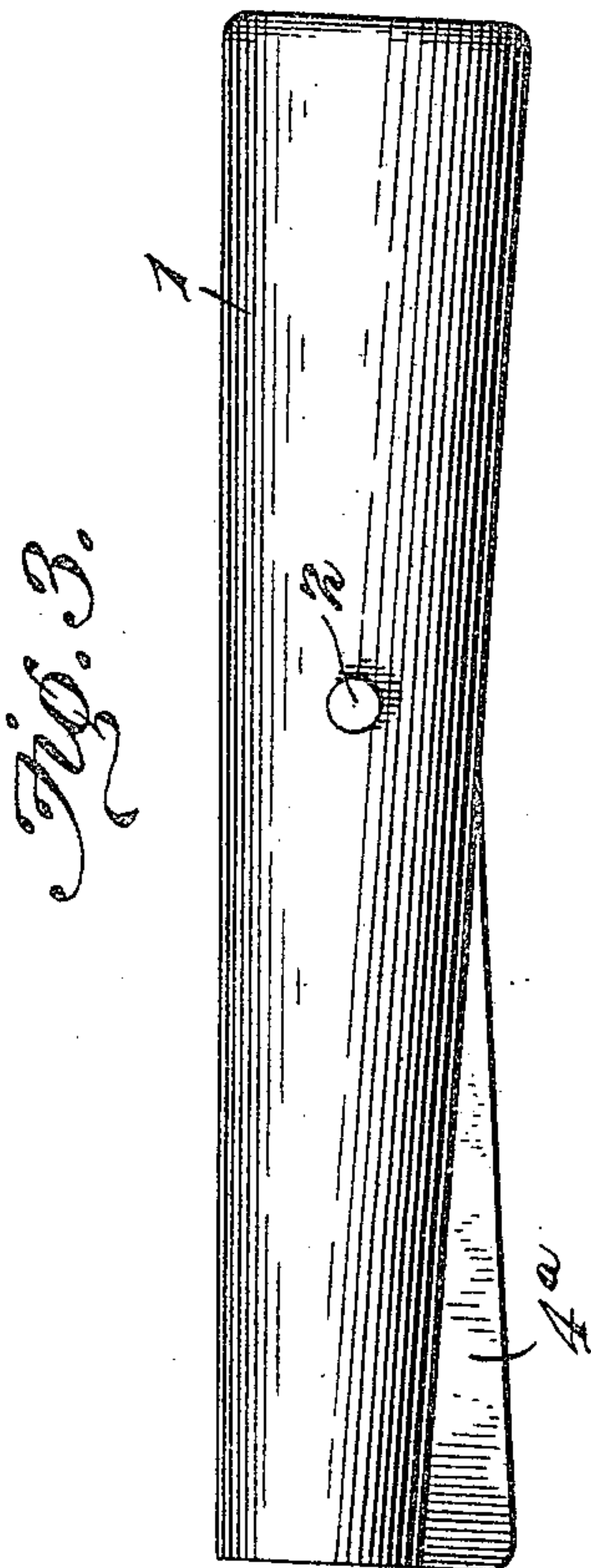
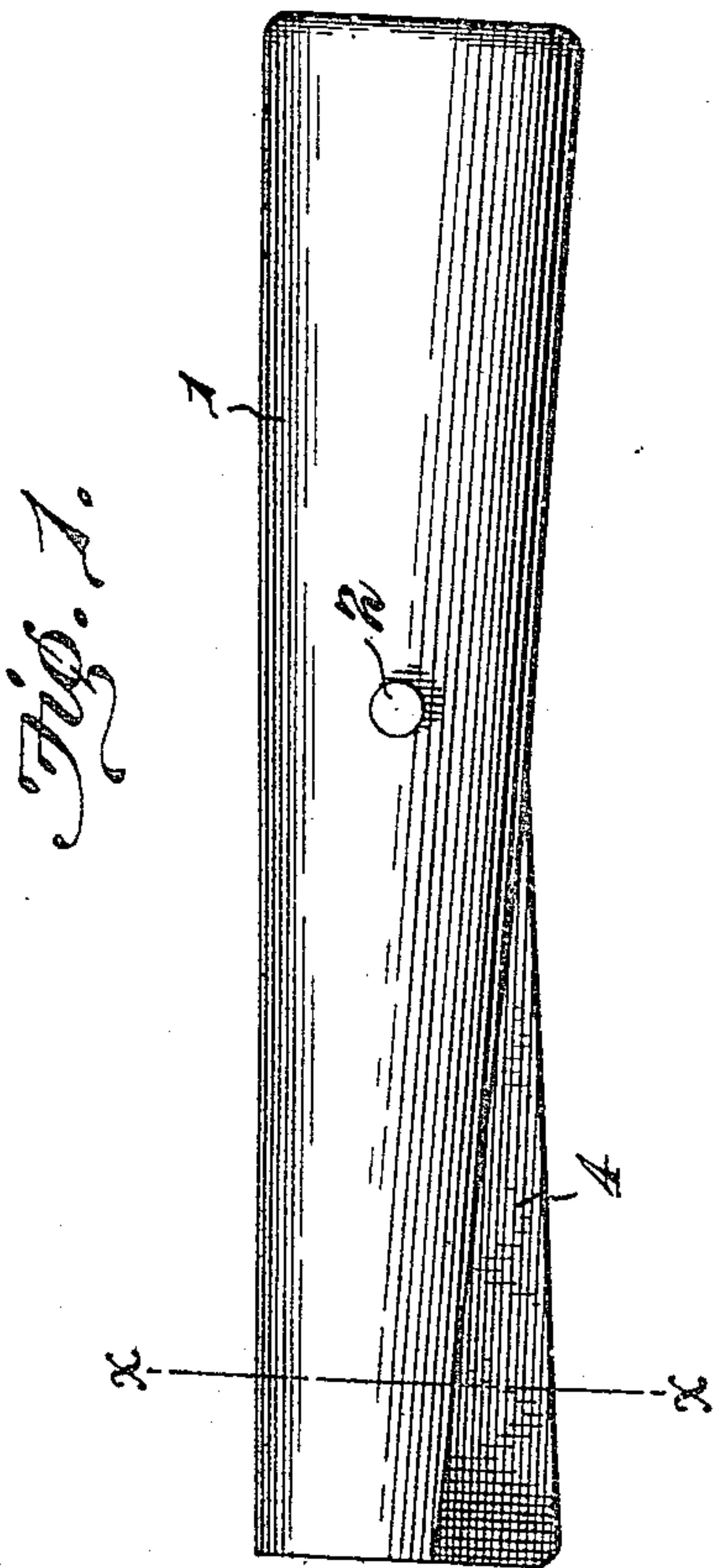


951,603.

S. FABER.
GUN BARREL.
APPLICATION FILED MAY 13, 1909.

Patented Mar. 8, 1910.



Witnesses

J. W. Bishop.
M. R. Alfors

Stanislaus Faber.

Inventor

By

Joshua R. Foss.

Attorney

UNITED STATES PATENT OFFICE.

STANISLAUS FABER, OF CHICAGO, ILLINOIS.

GUN-BARREL.

951,603.

Specification of Letters Patent.

Patented Mar. 8, 1910.

Application filed May 13, 1909. Serial No. 495,772.

To all whom it may concern:

Be it known that I, STANISLAUS FABER, a subject of the Emperor of Austria-Hungary, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Gun-Barrels, of which the following is a specification.

My invention relates to ordnance and particularly to the gun barrels of large guns.

In using large guns after firing a number of shots, the barrel becomes heated to a very high temperature causing expansion of the same. The expansion of the barrel causes enlargement of the bore and for this reason the highly heated guns are inaccurate in firing.

The object of my invention is to provide a gun barrel of such construction that the heat shall be rapidly dissipated, particularly toward the muzzle end of the barrel to insure accuracy in aiming and firing the gun.

Other objects will appear hereinafter.

With these objects in view my invention consists generally in a gun barrel equipped with a heat radiating rib extending longitudinally thereof and preferably increasing in radiating surface toward the muzzle end of the barrel, said rib also serving to strengthen the muzzle against expansion or splitting.

My invention further consists in various details of construction and arrangements of parts all as will be fully described hereinafter and particularly pointed out in the claim.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification and in which,

Figure 1 is a side elevation of the gun barrel embodying my invention in its preferred form, Fig. 2 is a transverse section on the line $x-x$ of Fig. 1, Fig. 3 is a side elevation of a slightly modified form and Fig. 4 is an end elevation of the same.

Referring now to the drawings, 1 indicates a gun barrel of any ordinary or preferred construction and provided with the

trunnions 2, and the rifled bore 3. Extending longitudinally of the barrel is a preferably straight rib 4. This is preferably arranged on the under side of the barrel and extends from a point adjacent the trunnions to the muzzle end. The rib tapers from one end to the other, becoming larger toward the muzzle end, to give a greater heat radiating surface at this point and to increase the resistance of the muzzle against splitting. It is well known that the tendency of a gun barrel to split increases toward the muzzle and forward of the trunnions, hence I begin the rib at a point adjacent the trunnions and extend the same to the extreme end of the muzzle. As shown in Figs. 1 and 2 the rib 4 is thicker at its base where it joins the barrel proper and tapers toward the bottom edge, forming the inclined and converging heating radiating walls 5. The rib 4 is quite thick in proportion to the diameter of the barrel so that the walls 5 are substantially tangential thereto.

In Figs. 3 and 4 I have illustrated a slightly modified form of my invention. As shown in these figures the rib comprises an integral flange like member having parallel radiating walls 5^a, which taper from the muzzle end toward the trunnions.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

A gun barrel, in combination with a heat radiating rib formed thereon, said rib extending longitudinally of the barrel and tapering from the muzzle toward the opposite end, the taper of said rib being greater than the taper of the barrel to increase the radiating surface toward the muzzle, substantially as described.

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

STANISLAUS FABER.

Witnesses:

JOSHUA R. H. POTTS,
JANET E. HOGAN.