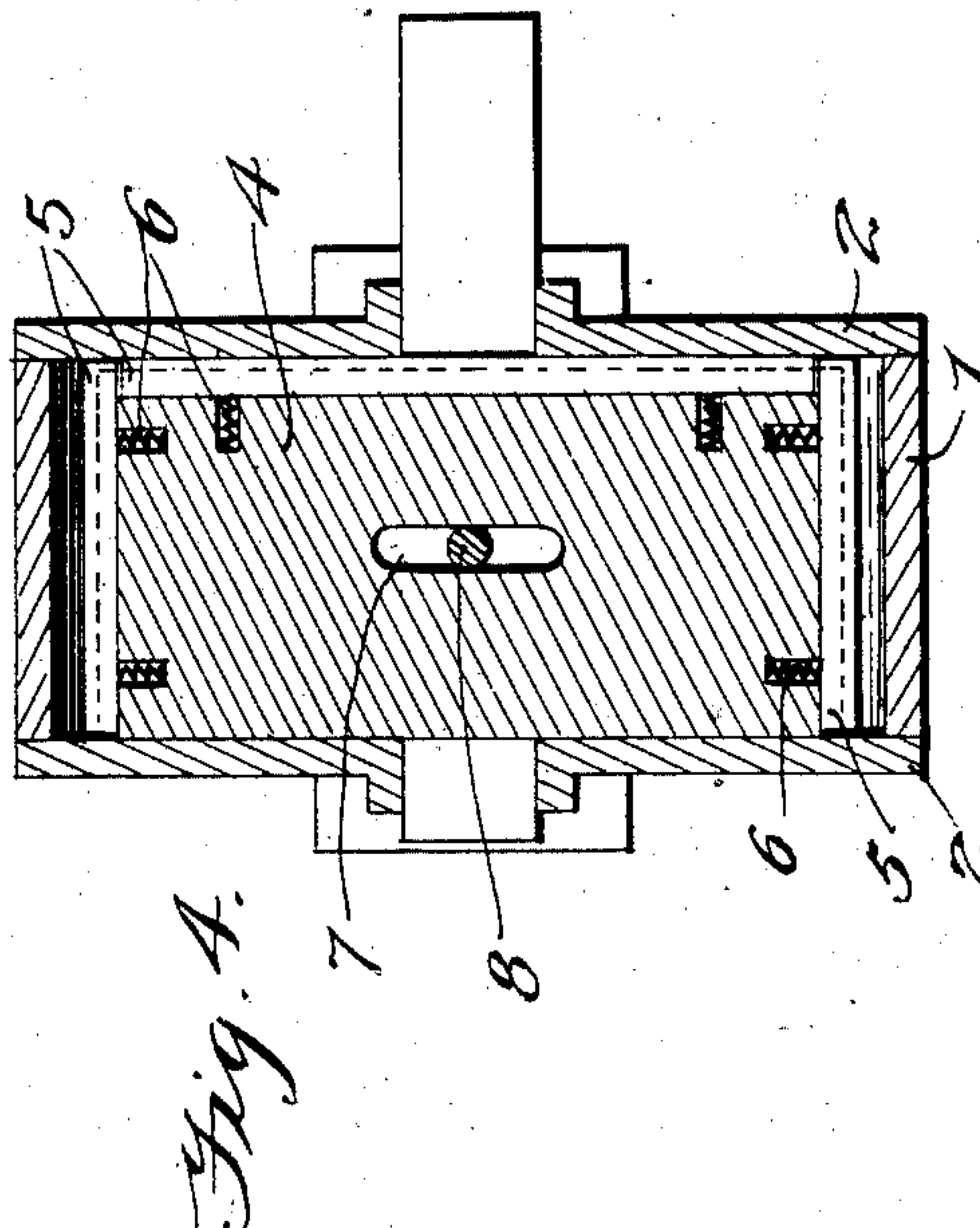
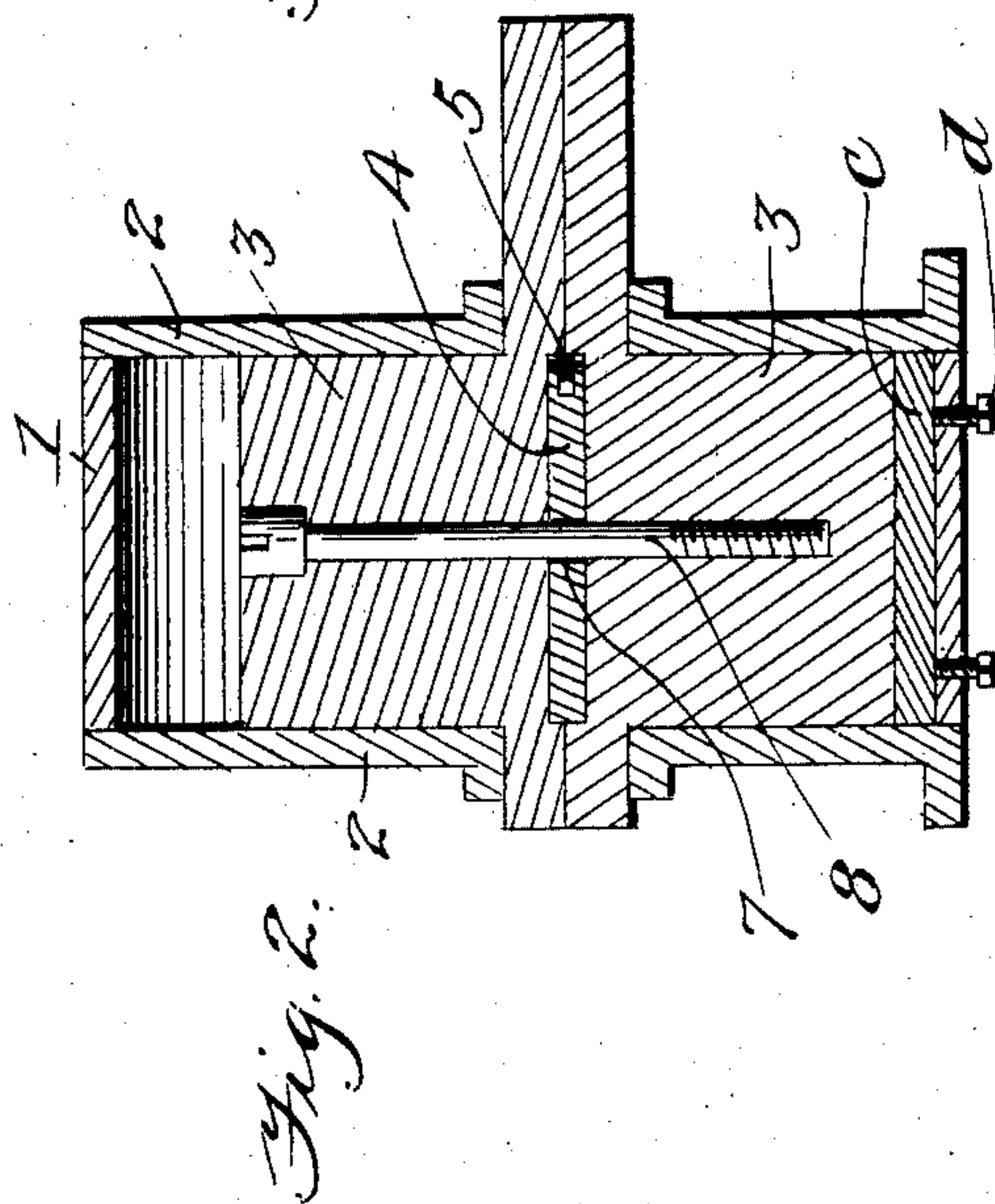
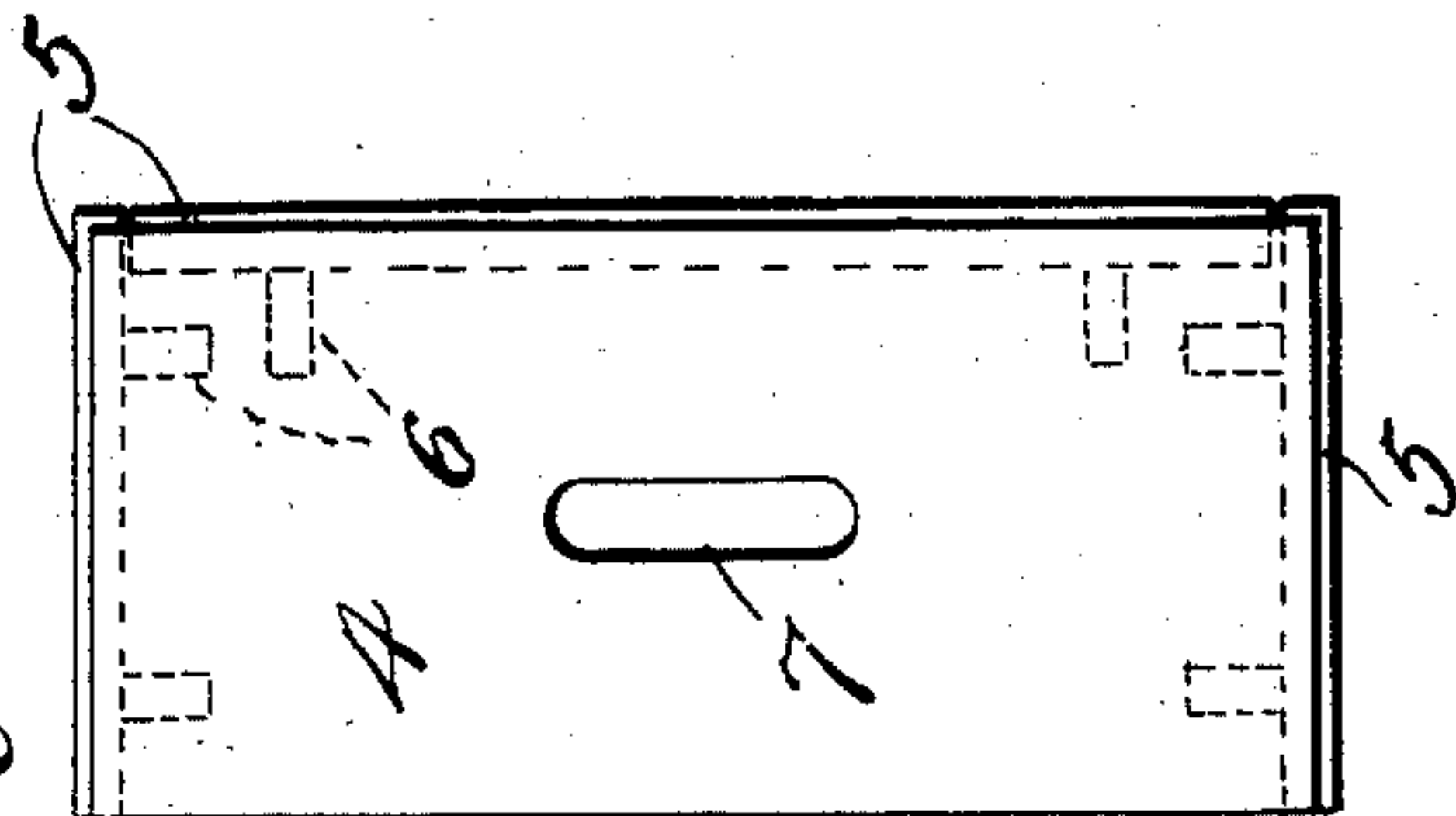
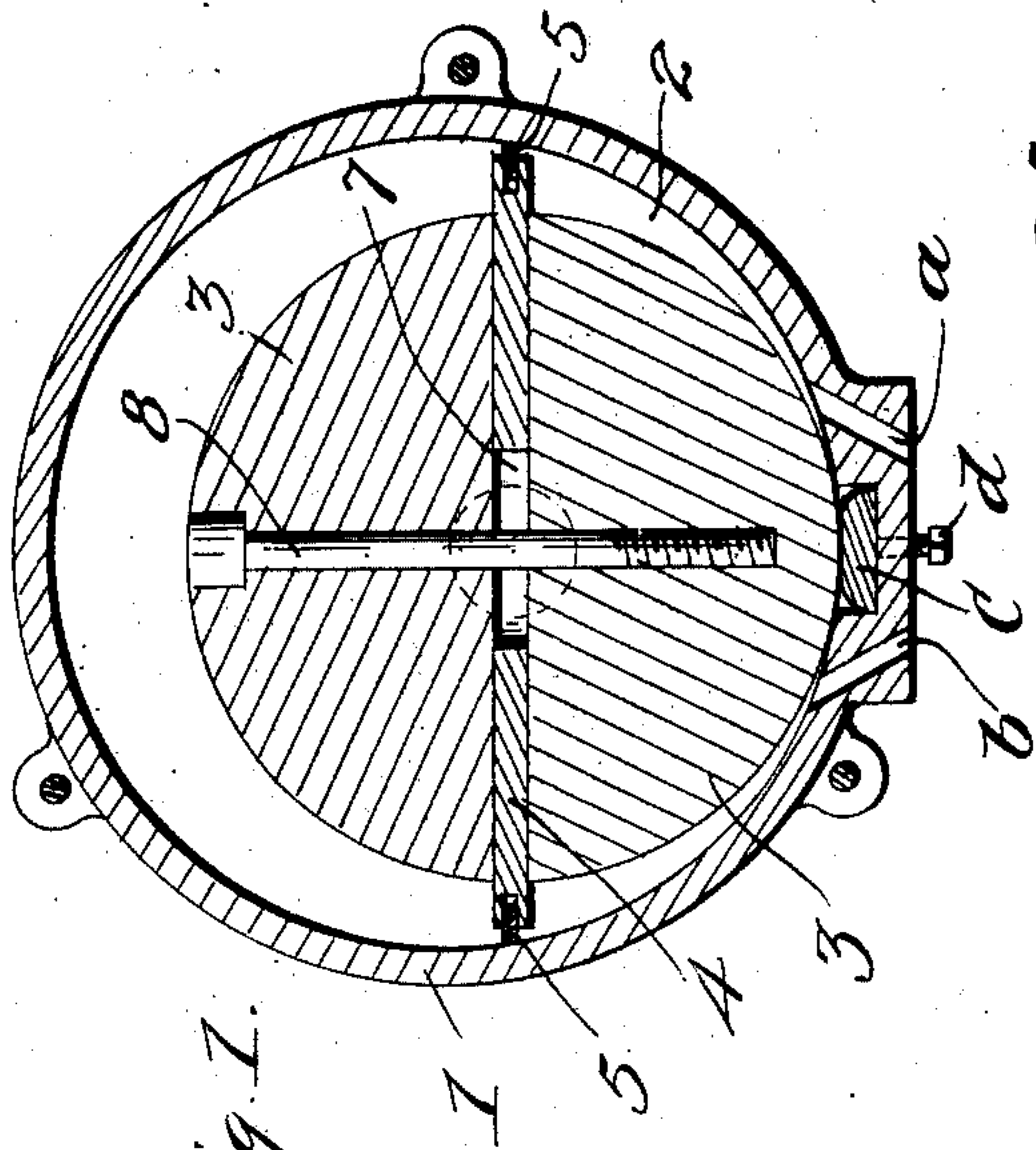


No. 883,224.

PATENTED MAR. 31, 1908.

J. F. NEVILLE.  
ROTARY PUMP.

APPLICATION FILED JAN. 17, 1907.



Witnesses

Chas. R. Griesbauer,  
C. W. Griesbauer.

by

H. B. Wilson & Co.

Attorneys

Inventor  
J. F. Neville



# UNITED STATES PATENT OFFICE.

JOSEPH F. NEVILLE, OF WOODRUFF, UTAH.

## ROTARY PUMP.

No. 883,224.

Specification of Letters Patent.

Patented March 31, 1908.

Application filed January 17, 1907. Serial No. 352,758.

*To all whom it may concern:*

Be it known that I, JOSEPH F. NEVILLE, a citizen of the United States, residing at Woodruff, in the county of Rich and State of Utah, have invented certain new and useful Improvements in Rotary Pumps; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to rotary pumps; and one of the principal objects of the same is to provide a device of this character which shall be simple in construction, composed of comparatively few parts, and which will be reliable and efficient in operation and which will require but little power to operate the same. These objects and advantages are attained by means of the construction illustrated in the accompanying drawings, in which:

Figure 1 is a vertical sectional view of a pump made in accordance with my invention; Fig. 2 is a transverse section of the same; Fig. 3 is a plan view of the sliding piston; and Fig. 4 is a vertical section taken at right angles to Fig. 1.

Referring to the drawing for a more particular description of my invention, the numeral 1 designates a casing or cylinder, which may be provided with heads 2 at opposite ends thereof, and means for bolting the cylinder to a support. Journaled eccentrically within the casing 1 is a rotary piston 3 comprising a pair of component parts or sections having their meeting faces oppositely channeled to provide a transverse bearing opening or slot in which is mounted a sliding piston blade 4.

The piston blade 4 at its opposite ends and upon one side is fitted with packing 5, said packing being mounted upon springs 6 to yield and compensate for the wear of the parts and to always form a liquid-tight packing with the inner wall of the casing 1. In the center of the sliding blade is a slot 7. A bolt 8, which passes through an aperture in two sections of the rotary piston, passes through the slot and thus permits the sliding piston blade to have a free movement relatively to the rotary piston.

In the casing 1 an inlet *a* and an outlet *b* are provided and fitted with a resisting block *c* provided with take up screws *d* for adjusting said block to take up the wear between the casing and rotary piston.

From the foregoing, it will be understood that any suitable power may be used for operating the pump, and that as the rotary piston is operated the sliding piston blade carries the water from the inlet opening around the cylinder to the outlet opening and that the stream is constant and continuous.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined by the appended claim.

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

A rotary pump comprising a cylinder, a rotary piston concentrically mounted therein, said piston consisting of a pair of separable semi-circular sections having their meeting faces grooved to form a transverse bearing opening extending through the piston, a piston blade slidably mounted in said bearing opening and provided at its longitudinal center with a longitudinal slot, a transverse bolt-opening formed in the sections at right angles to the plane of movement of the blade and in line with the slot in the latter, a connecting bolt entered into said bolt-opening and through said slot for detachably connecting the piston sections and holding the blade against escape from the piston, yieldable packing strips applied to the active edges of the sliding blade, a movable resistance block arranged to bear at one side of the piston and means for adjusting the block to take up wear on the piston.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH F. NEVILLE.

Witnesses:

EZRA BROWN,  
WILLIAM NEVILLE.