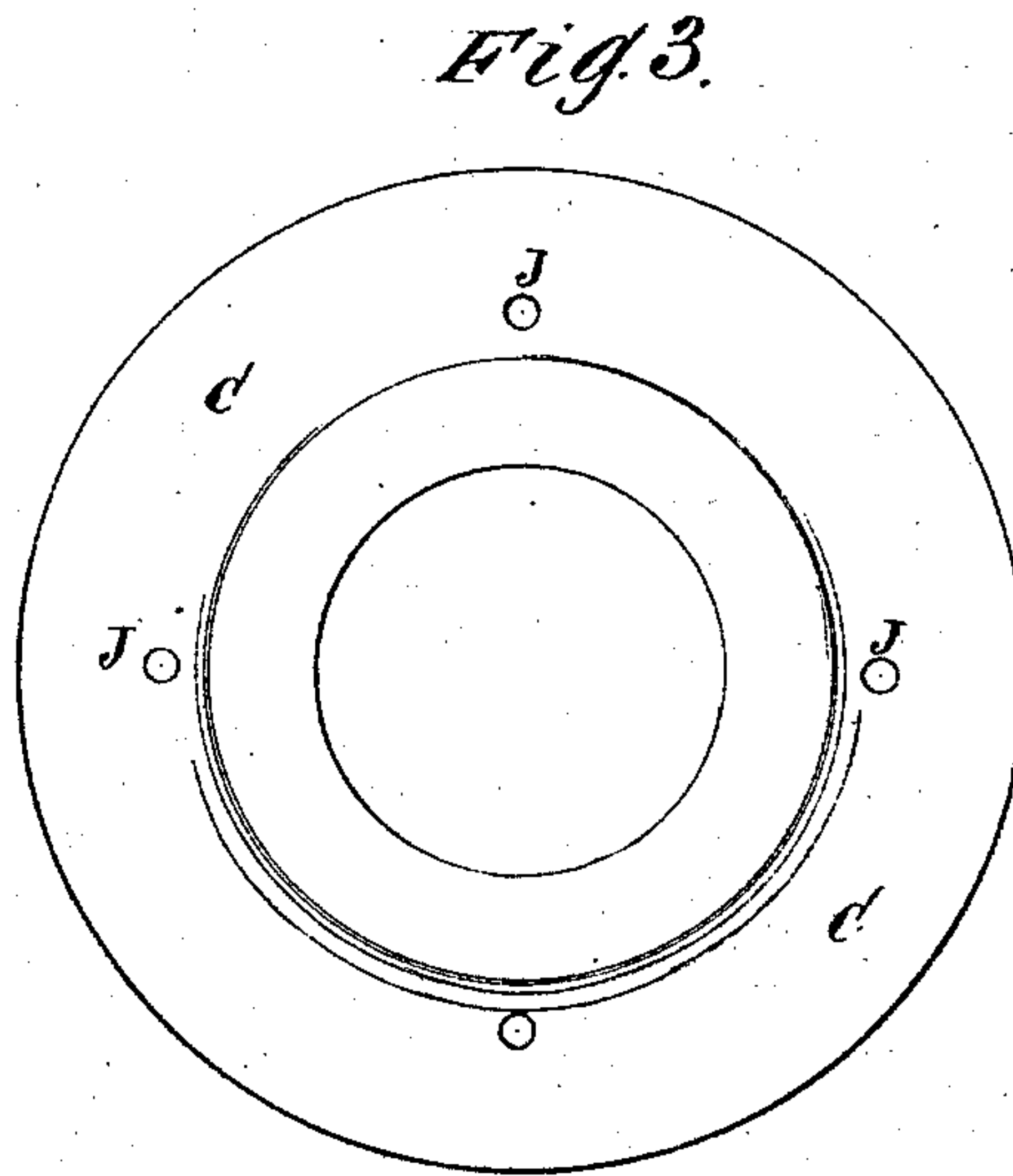
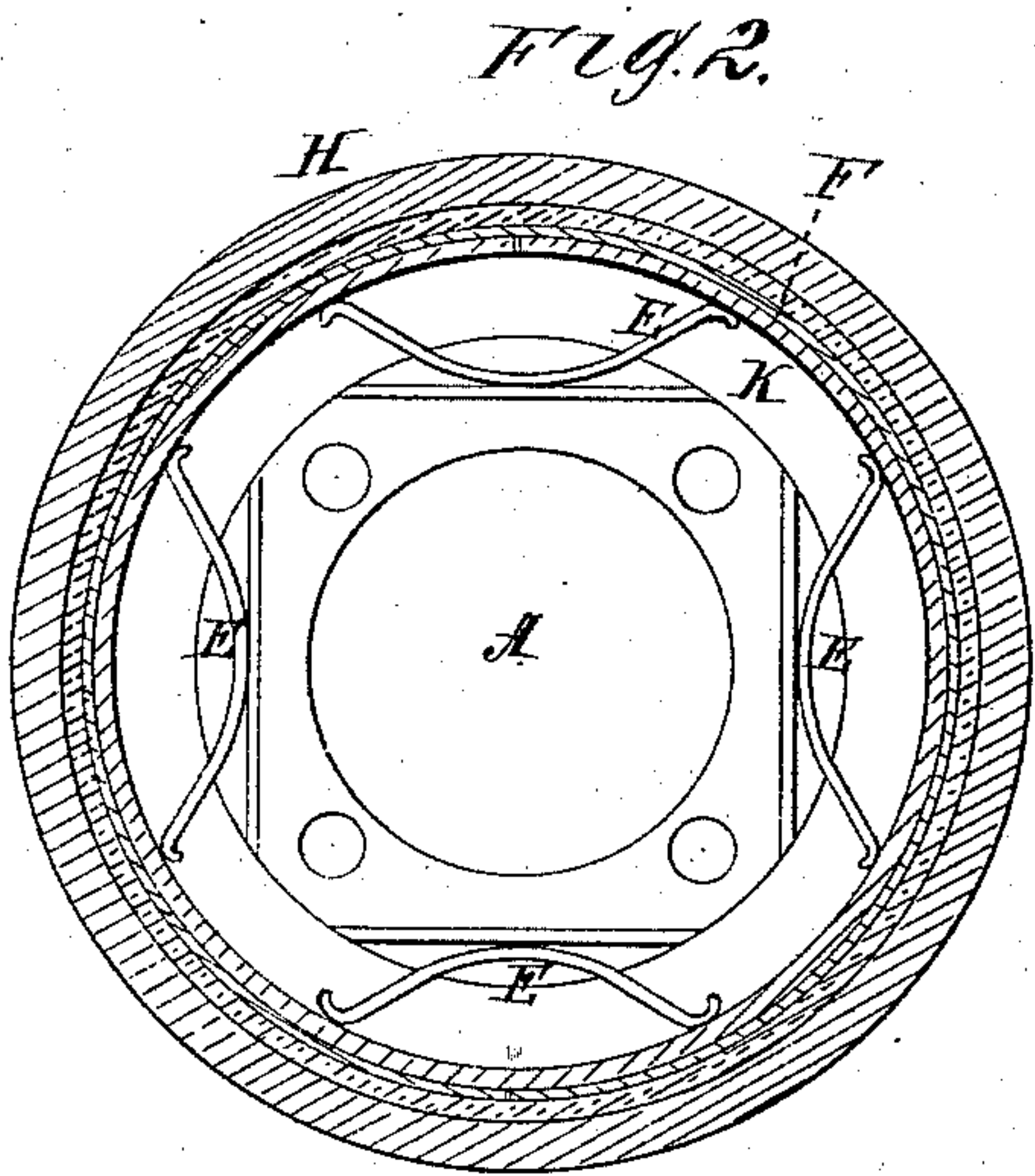
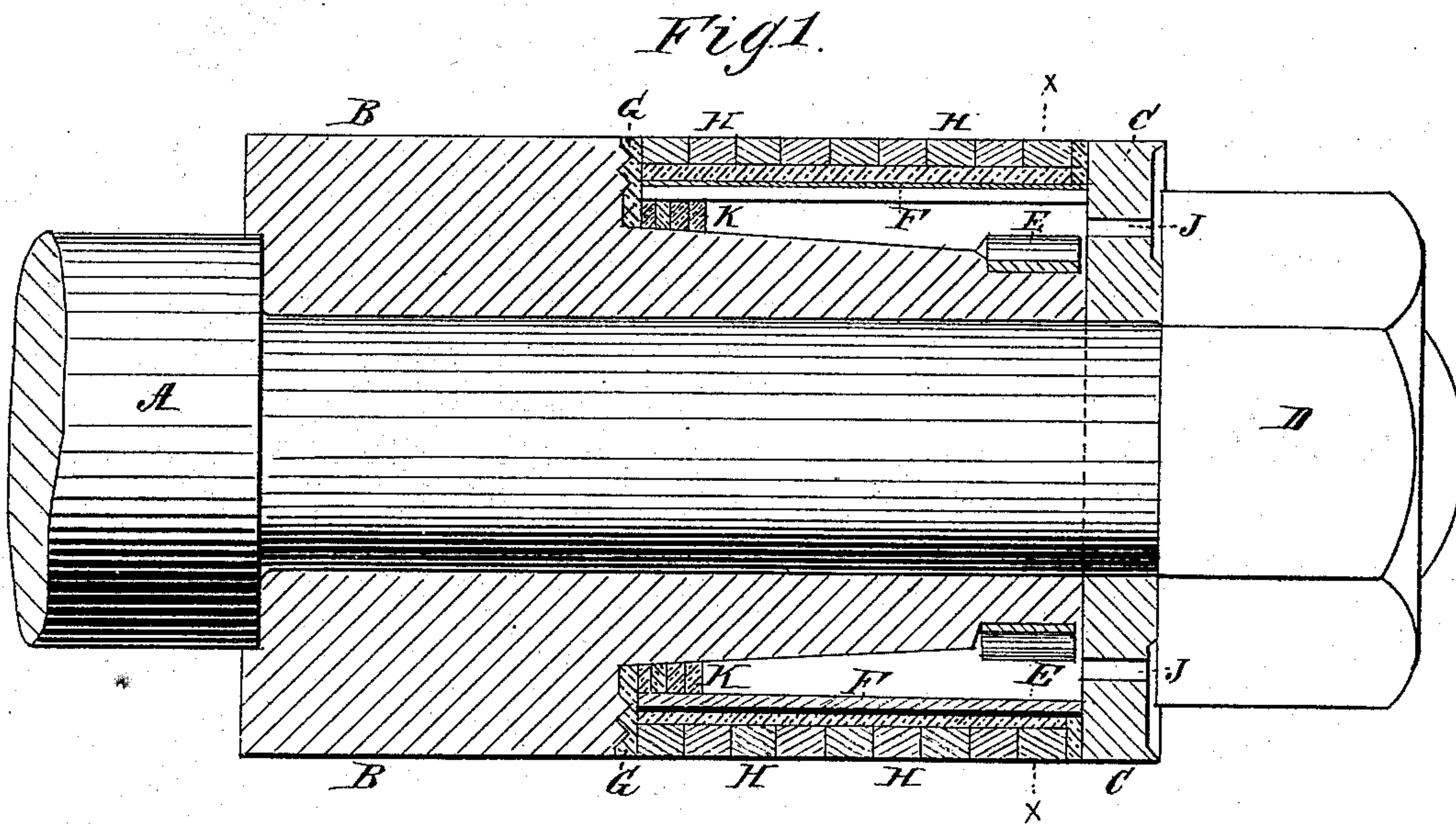


J. F. TAYLOR.

Pistons for Steam and Hydraulic Presses.

No. 157,888.

Patented Dec. 15, 1874.



WITNESSES:

WITNESSES:
G. Matthews.
Solon C. Kemron

INVENTOR:

John F Taylor
Wm V B

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN F. TAYLOR, OF CHARLESTON, SOUTH CAROLINA.

IMPROVEMENT IN PISTONS FOR STEAM AND HYDRAULIC PRESSES.

Specification forming part of Letters Patent No. **157,888**, dated December 15, 1874; application filed October 7, 1874.

To all whom it may concern:

Be it known that I, JOHN F. TAYLOR, of the city and county of Charleston and State of South Carolina, have invented a new and Improved Water-Piston for Steam and Hydraulic Presses; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a longitudinal sectional elevation. Fig. 2 is a transverse sectional elevation in line *x x*, Fig. 1.

The invention relates to and consists in the putting together of the different parts of a piston, as hereinafter fully described, and subsequently pointed out in the claim.

A represents the piston-rod; B, piston-block; C, follower; D, nut, securing piston-block and follower to piston-rod; E, springs; F, metal rings; G, leather or rubber disks; H, piston-packing; J, holes through follower; K, packing between rings and piston-block. The two metal rings (which are cut to allow them to spring out as the packing wears) rest on the top of the leather or rubber disk G, and are deep enough to be squeezed into the

disk when the follower is screwed hard down, making a tight joint between the lower edge of the rings and the piston-block. As a further security against leak at that point, I use the packing K driven tightly between the metal rings and the piston-block, grooves having been made in the piston-block to prevent the disk from being forced out. The four springs E at the follower end of the piston are for the purpose of forcing out the metallic rings, and packing hard against the cylinder, until the pressure inside of the piston is increased by the water or other fluid passing through the holes J in the follower.

Having thus described all that is necessary to a full understanding of my invention, what I claim as new is—

A water-piston having block B, provided with internal water-chamber and perforated follower, the rings F H, held by the latter around the former, and the supporting-disk G of elastic material, as shown and described.

JOHN F. TAYLOR.

Witnesses:

A. G. ROSE, Jr.,
ARTHUR BRYAN.