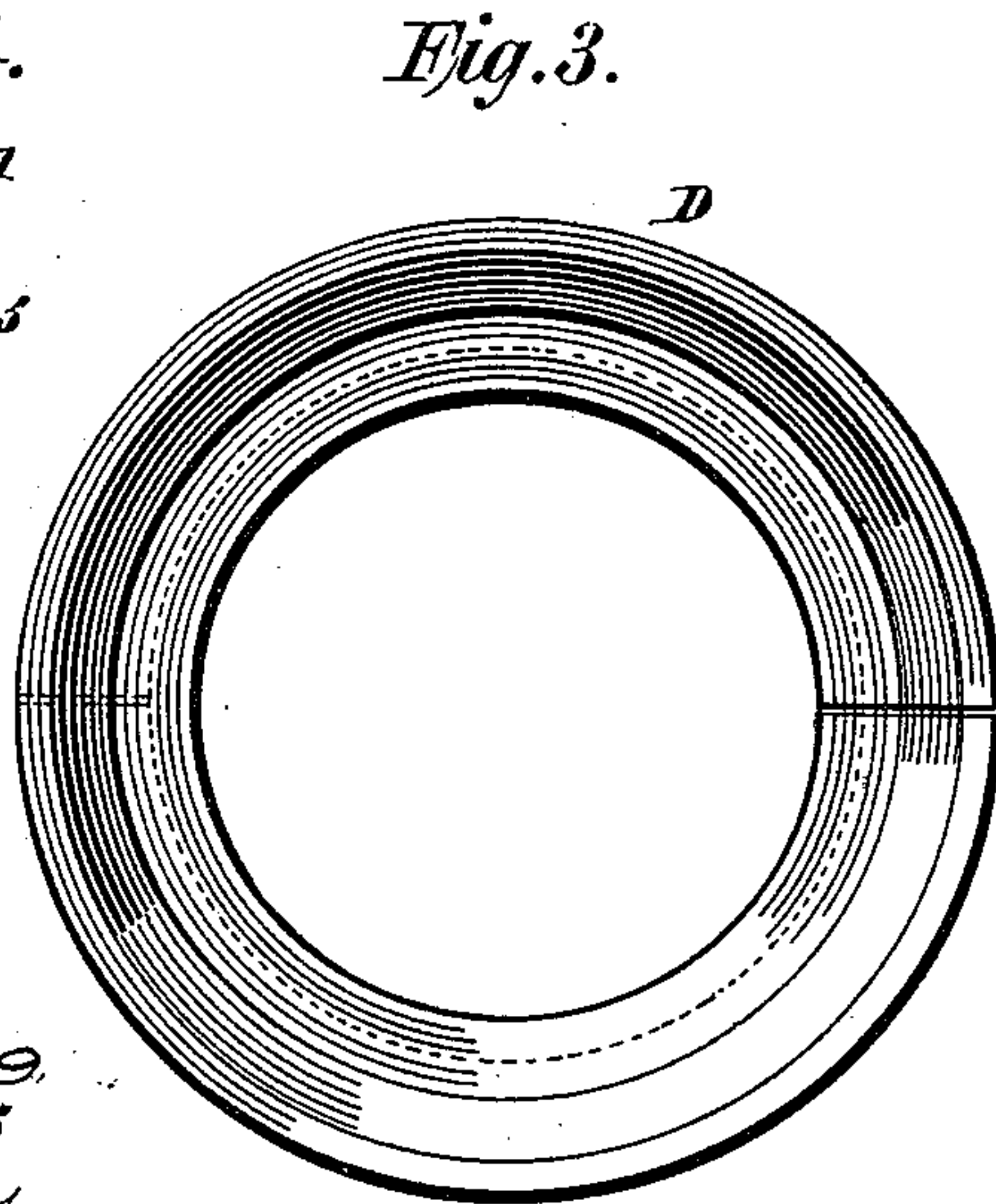
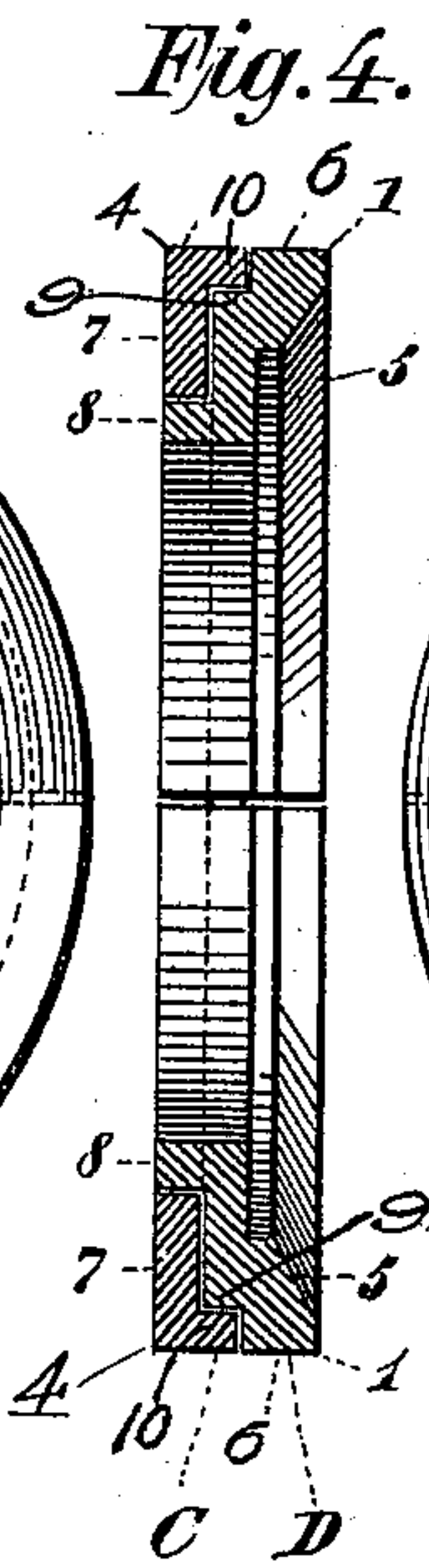
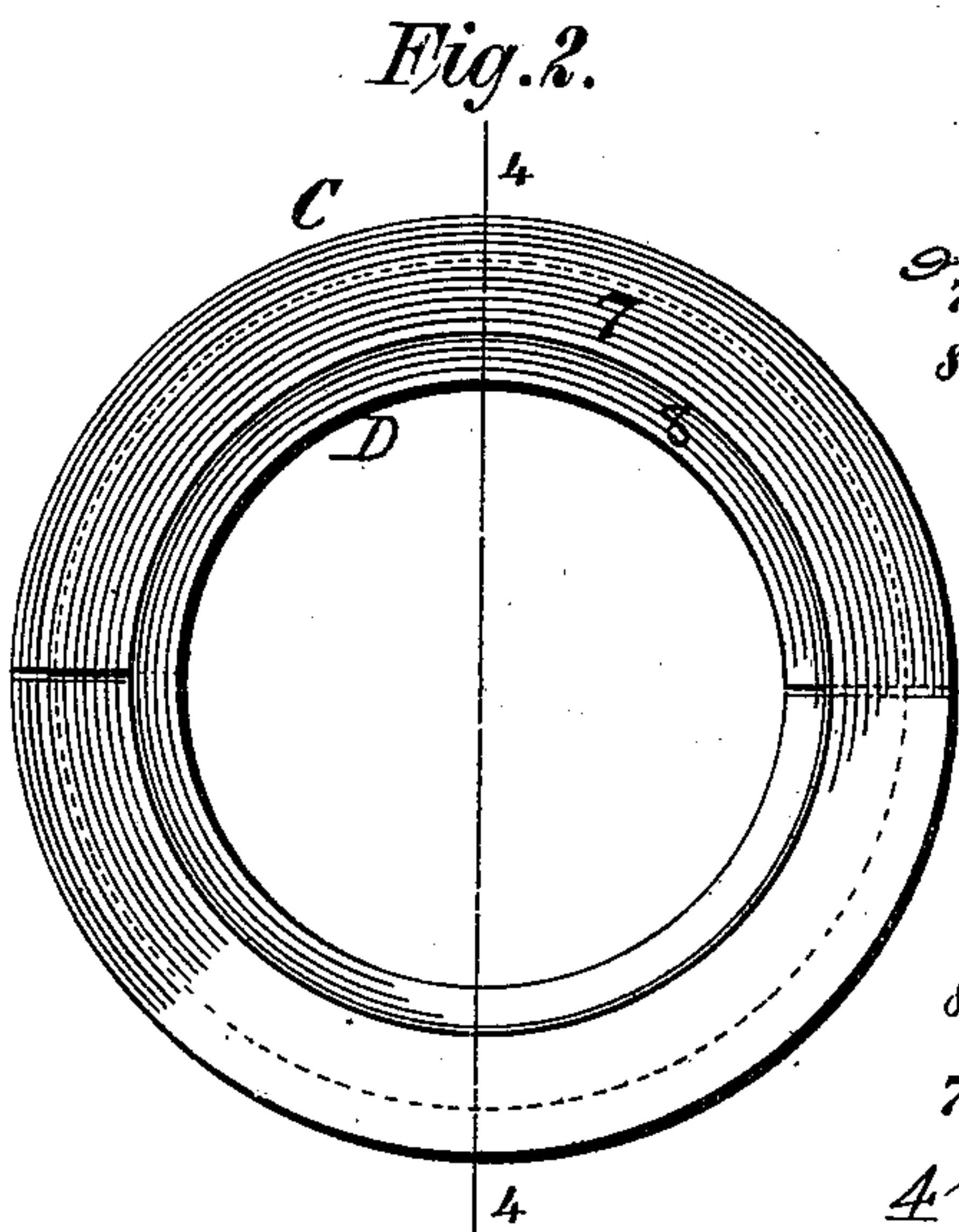
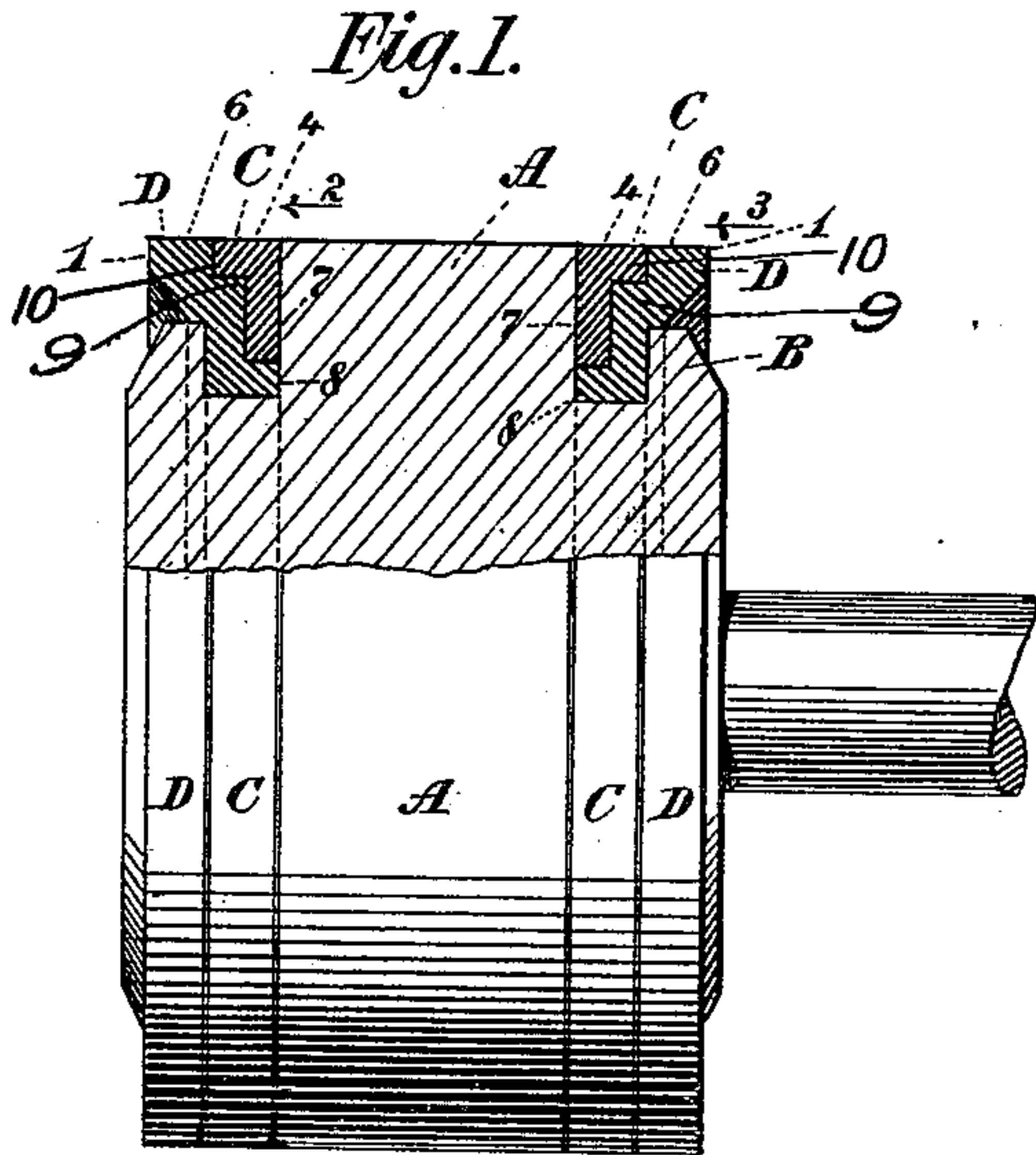


No. 653,408.

Patented July 10, 1900.

A. A. TRIPOLD.
PACKING FOR PISTONS.
(Application filed Apr. 2, 1900.)

(No Model.)



WITNESSES:

Gustav Dietrich
Geo. A. Moore

INVENTOR

Ambrose A. Tripold

BY *Briesen & Knauth*
ATTORNEYS

UNITED STATES PATENT OFFICE.

AMBROSE A. TRIPOLD, OF NEW YORK, N. Y., ASSIGNOR TO THE AMBROSE MACHINE COMPANY, OF SAME PLACE.

PACKING FOR PISTONS.

SPECIFICATION forming part of Letters Patent No. 653,408, dated July 10, 1900.

Application filed April 2, 1900. Serial No. 11,096. (No model.)

To all whom it may concern:

Be it known that I, AMBROSE A. TRIPOLD, a citizen of the United States, residing in the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Packing for Pistons, of which the following is a specification.

In the drawings forming part hereof, in which like reference characters indicate like parts in all the views, Figure 1 is a side elevation, partly in section, of a piston and packing in which my invention is embodied. Fig. 2 is a face view of two of the packing-rings, the said face view being taken in the direction of the arrow 2 in Fig. 1. Fig. 3 is a view of the opposite face of this ring structure, the direction of view being that indicated by the arrow 3 in Fig. 1. Fig. 4 is a section through the rings.

The object of my present invention is to produce a packing for pistons and the like which shall be an improvement upon the structure shown in Patent No. 473,182, dated April 19, 1892, and granted to myself and Charles F. Davenport. In that patent the narrow ring C is apt, under certain abnormal conditions of pressure, to become slightly displaced in its seat on the ring D; and my present invention has for its principal object to improve the action of the said ring by making the wearing or bearing surfaces of the two rings of substantially equal extent and locking the rings together in an improved manner, all of which will be fully set forth.

In the drawings, A is a suitable piston-head, preferably annularly recessed or grooved at or near its ends to produce a lip or overhanging wall B, which is preferably beveled. Seated in each of these grooves is a split metallic packing-ring D, which is made with a flange 1, having the outer bearing-surface 6 and with a depressed face 9, upon which the flange 10 of the inner ring C is seated. The inner end of the ring D has a flange 8 to serve as a rest for the body of the ring C. This ring C is of a general L shape, so as to fit against the step-shaped face 9 8 of the ring D, and is provided with a bearing-surface 4 of substantially the same extent as the bearing-surface 6 of the ring D, so that an equalization of pressure is thereby brought about. The

flange 8 of the ring D extends out flush to the surface 7 of the ring C, so that the inner face of the packing is composed in part by the face of the flange 8 and the face 7 of the ring C. The ring C is likewise a split ring, and the splits in the two rings are so placed as to break joints with each other, as shown in Fig. 2. I preferably place a pair of these rings at each working end of the piston, where the steam-pressure will cause the said rings to set tightly against the interior of the cylinder, the inherent elasticity or expansive power of the rings being augmented by the pressure of the steam or other fluid acting within the rings themselves and against the beveled outer faces of the ring D. It will thus be seen that as the bearing or working surfaces of the two rings are of substantially the same extent the pressure exerted by the said two rings will be substantially equalized and all danger of displacement or undue wear will be obviated.

It will be obvious that the part of the piston intervening between the two sets of packing-rings may be either solid or sectional, according to circumstances.

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

1. A piston-packing comprising a ring D provided with an outer flange 1 having a bearing-surface 6 and an inner flange 8, and intermediate depression 9 and a ring C substantially L-shaped in cross-section rested partly on the flange 8 and partly on the depression 9 of the ring D and having a bearing-surface 4, the bearing-surface 6 of the ring D and the bearing-surface 4 of the ring C being of substantially-equal extents, whereby equalization of pressure is effected.

2. A packing for steam and other pistons formed of two split expansive rings C and D, the ring D having the flanges 8 and 1, and intermediate depression 9, the flange 8 and the depression 9 being within the ring C, the bearing-surfaces of the said two rings being of substantially-equal extent, whereby equalization of the pressure is effected.

AMBROSE A. TRIPOLD.

Witnesses:

GEO. E. MORSE,

OTTO V. SCHRENK.