

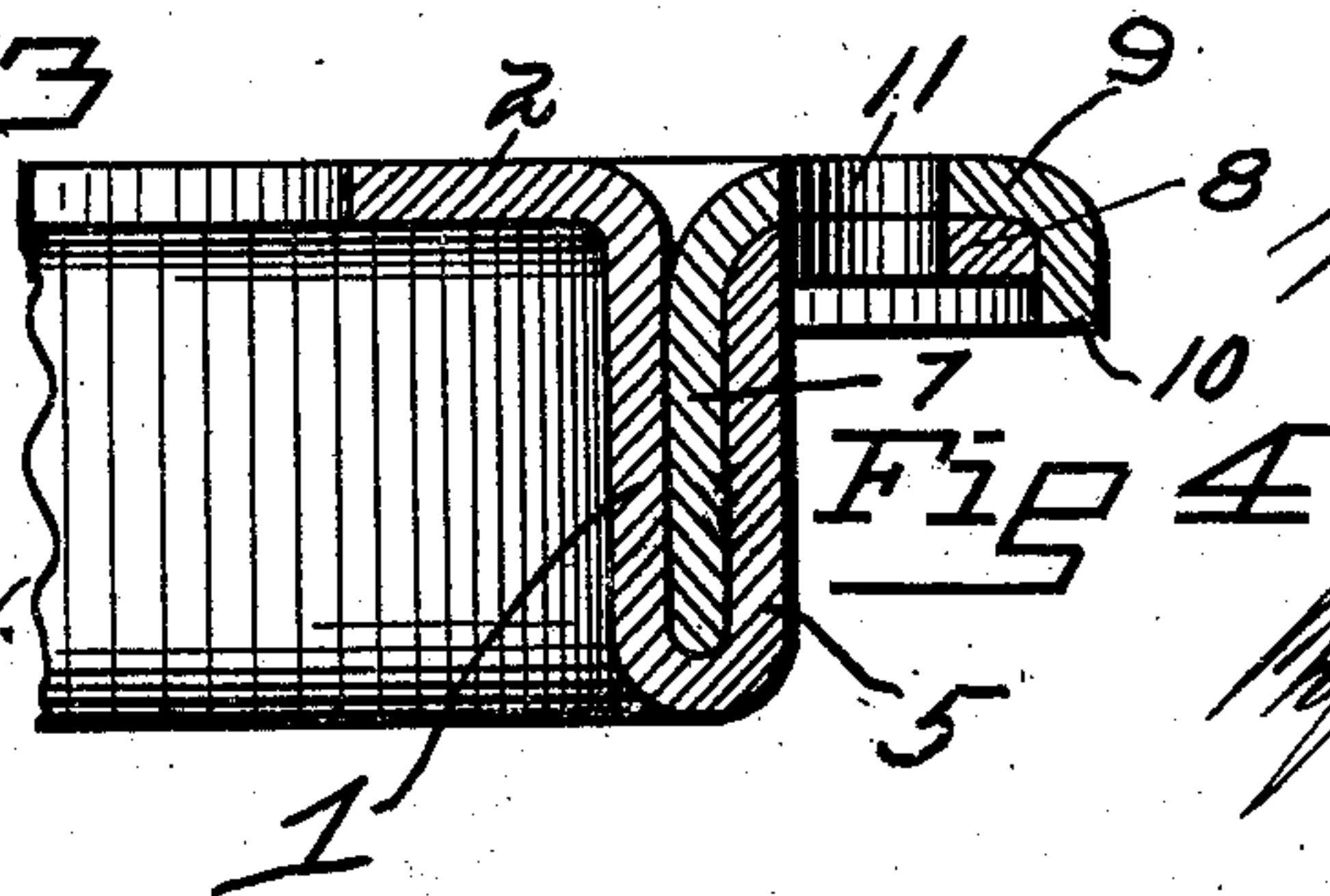
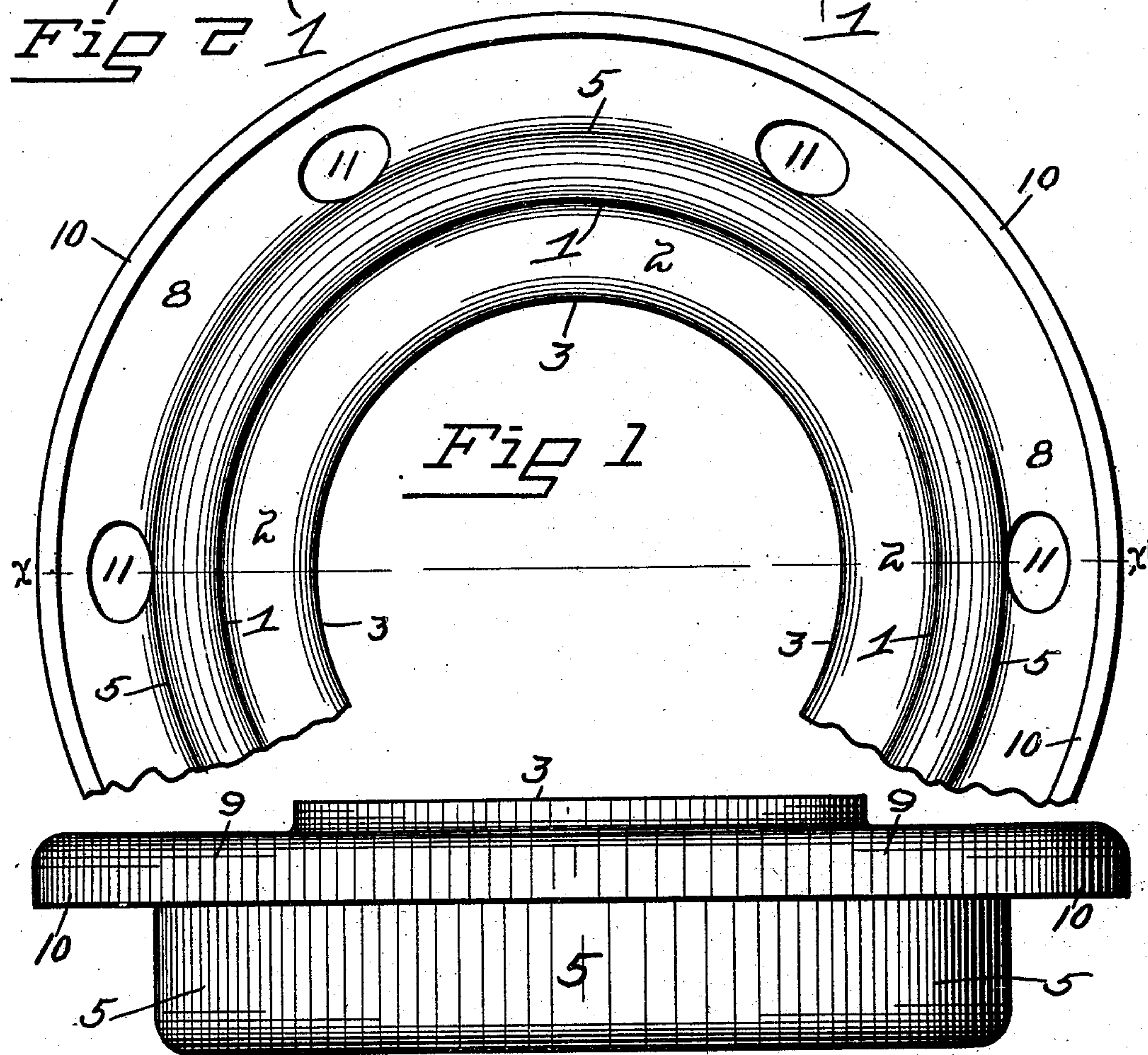
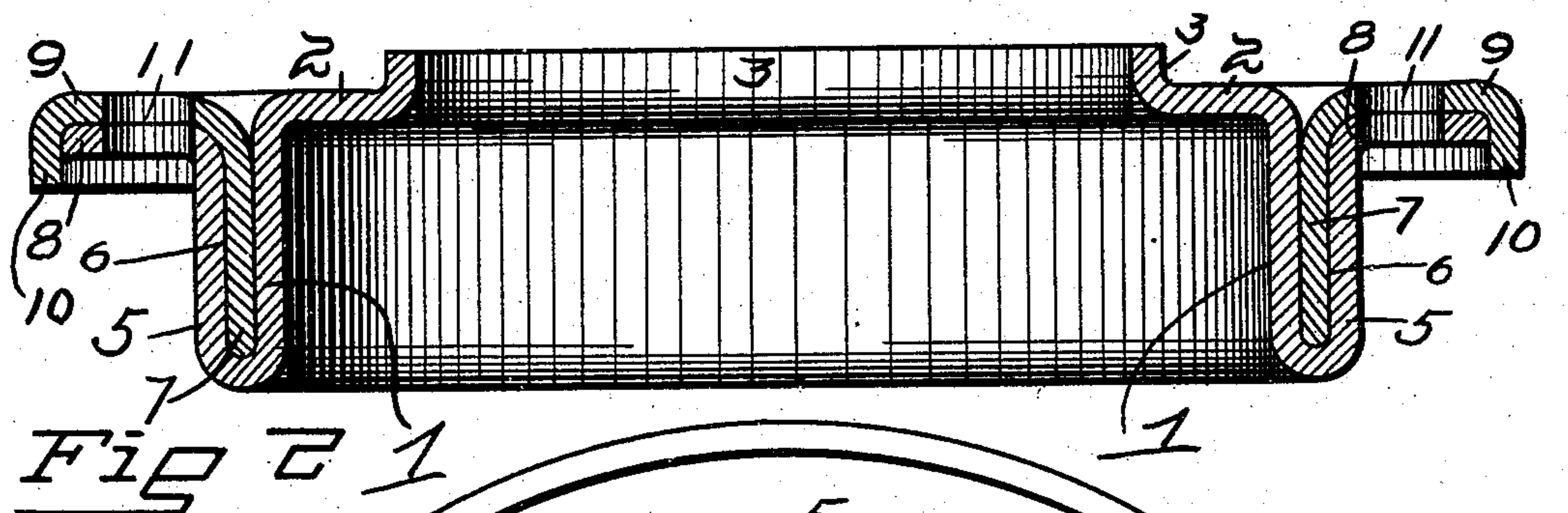
No. 841,814.

PATENTED JAN. 22, 1907.

W. W. PRICE.

CLAMPING RING FOR PIPE COUPLINGS.

APPLICATION FILED JUNE 28, 1906.



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UNITED STATES PATENT OFFICE.

WILLIAM W. PRICE, OF DAYTON, OHIO.

CLAMPING-RING FOR PIPE-COUPPLINGS.

No. 841,814.

Specification of Letters Patent.

Patented Jan. 22, 1907.

Application filed June 28, 1906. Serial No. 323,927.

To all whom it may concern:

Be it known that I, WILLIAM W. PRICE, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Clamping-Rings for Pipe-Couplings; 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in clamping-rings for underground pipe couplings or joints.

The invention consists in the construction of a clamping-ring having the structural characteristics hereinafter described and claimed, the same being formed by the union of two pieces of sheet-steel or boiler-plate, which are united by means of suitable cooperating dies, which combine to give the clamping-ring, as a whole, its desirable formation and strength.

The object of the invention is to provide a clamping-ring for pipe-couplings which possesses a maximum degree of strength and the manufacture of which is correspondingly reduced in point of cost and labor.

My improved clamping-ring is amply illustrated in the accompanying drawings, of which—

Figure 1 is a plan view of the under side of the completed clamping-ring, a portion of which is broken away. Fig. 2 is a cross-sectional view on the line *xx* of Fig. 1. Fig. 3 is an elevation of the clamping-ring. Fig. 4 is a detail sectional view showing a slight modification.

In a detail description of the invention similar reference characters indicate corresponding parts.

The clamping-ring is constructed from two blanks of sheet-steel or boiler-plate of suitable uniform thickness, said blanks being punched to provide the necessary dimensions and openings to produce the finished product. The blank, which subsequently forms the main body portion of the clamping-ring, is essentially of greater dimensions than the blank from which the reinforcing member is constructed. When these assembled blanks are operated upon by means of suitable dies, one of said blanks forms the inner

member or body, the annular wall 1 of which extends inwardly in an inclosing wall 2 at one side of the ring and thence outwardly in a short marginal flange 3, which lies parallel with the wall 1, and forms the reduced opening through which a pipe-section (not shown) projects. Extending from this annular wall 1 is a similar annular wall 5, lying parallel with said wall 1 and providing an intervening annular pocket 6. The parallel wall 5 is of a length coinciding with that of the inner wall 1, and the pocket 6, lying between said parallel walls 1 and 5, is of a corresponding depth. The wall 5 terminates in an outwardly-lying marginal flange 8, which is in substantially the same plane as the inwardly-lying wall 2, extending from the inner wall 1.

In the operation of compressing the two blanks together a portion of the reinforcing member forms a third parallel wall 7, which projects into the intervening pocket 6, between the parallel walls 1 and 5, and is there rigidly secured. The ring is thus provided with a circumference consisting of three thicknesses of plate. The said inclosed wall 7 of the reinforcing member terminates in an outwardly-lying flange 9, which embraces the inner parallel flange 8, forming a terminal of the outer wall 5. This flange 9 overlaps the circumferential edge of the inner flange 8 and forms a flange 10, which is parallel with the walls 1-5 and 7 and forms the outermost circumference of the ring. The said overlying terminal flange 10 engages the circumferential edge of the inner flange 8, and thus the two united members of the clamping-ring become as one rigid member. The overlapping flanges 8 and 9 are provided with a suitable number of bolt-holes 11, through which bolts (not shown) pass in uniting two of these clamping-rings in coupling two sections of pipe.

Fig. 4 illustrates a slight modification of the clamping-ring due to the omission of the inner circumferential flange 3. The inwardly-extending inclosing wall 2 in this construction terminates in the same plane.

I claim—

1. A clamping-ring for pipe-couplings, consisting of two members formed from sheet metal, one of said members having two parallel annular walls which inclose a third annular wall formed from the other member of the ring.

2. A clamping-ring for pipe-couplings consisting of two members formed from

sheet metal, one of said members having two circumferential walls and the other of said members having a single circumferential wall inclosed by the two circumferential walls of the other member, and all of said walls being in parallelism and constituting a triple reinforced annular wall of the clamping-ring.

3. In a clamping-ring for pipe-couplings, a major portion forming the main annular body of the ring, one end of said body extending annularly in the direction of the axis of the ring, and the other end of said body terminating in an outward wall lying parallel with the body of the ring, a minor portion forming the reinforcing member of the ring, said minor portion engaged between the annular parallel walls of the major portion, and said major and minor portions terminating in outwardly-lying annular flanges, one overlapping the other, and said flanges having a suitable number of bolt-holes therein.

4. In a clamping-ring for pipe-couplings, a member having two parallel walls forming an intervening pocket, a flange extending inwardly from the inner wall and reducing the opening of the ring, the outer wall extending outwardly in a marginal flange, and a rein-

forcing member having a portion projected into the annular pocket between said parallel walls and forming a third parallel wall, said reinforcing member having an outturned flange overlapping the marginal flange of the outer wall of the ring and inclosing the circumference of said marginal flange.

5. In a clamping-ring for pipe-couplings, a body member having two parallel annular walls with an intervening pocket, the inner wall terminating inwardly at right angles and reducing the opening of the ring, and the outer wall extending outwardly at right angles, a reinforcing member having a portion projected into the pocket between said parallel walls of the body member and forming a third annular reinforcing-wall, said reinforcing member terminating in an outwardly-extending flange, the margin of which incloses the circumferential edge of the outwardly-extending flange of the outer wall of the body member.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM W. PRICE.

Witnesses:

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