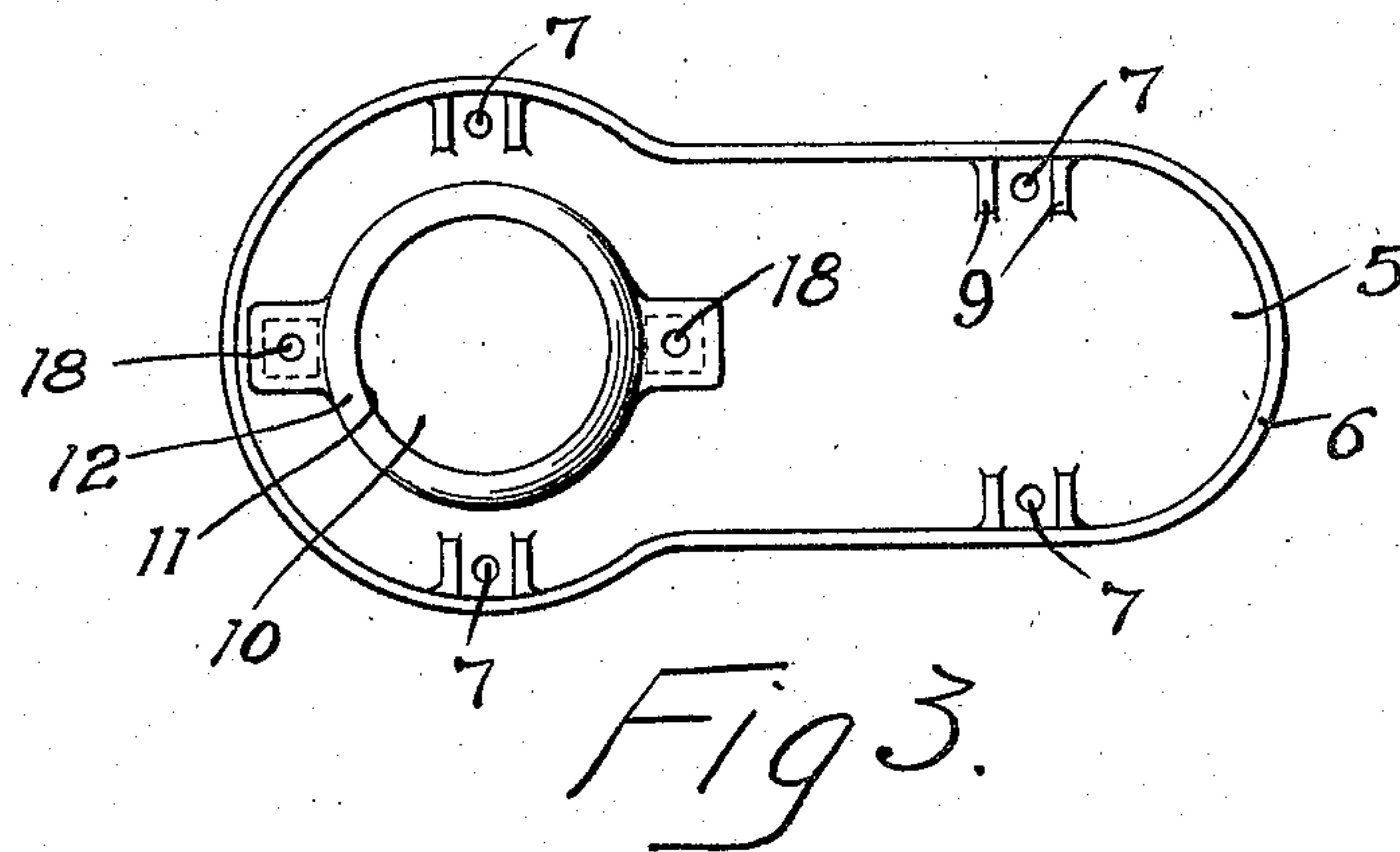
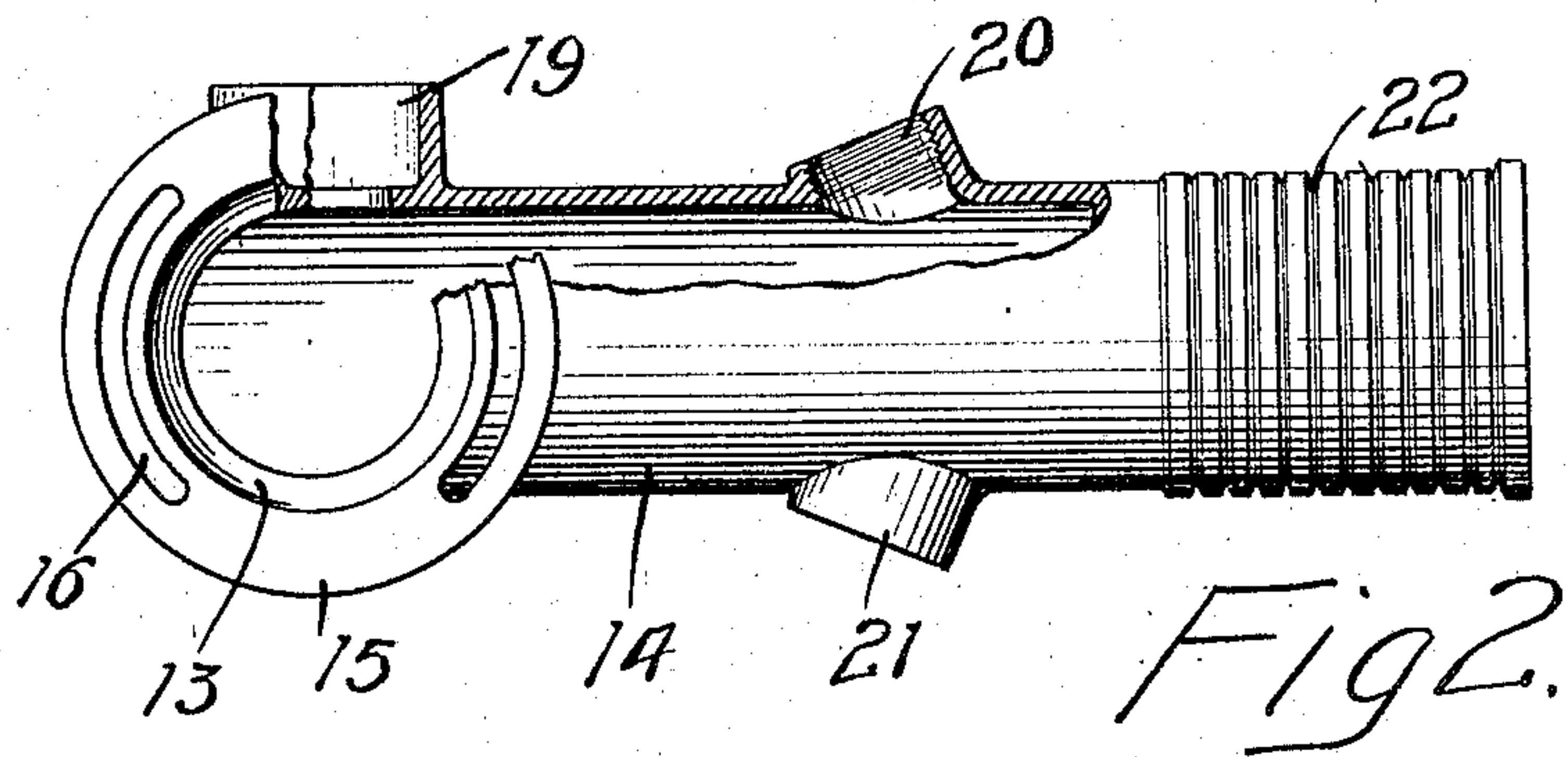
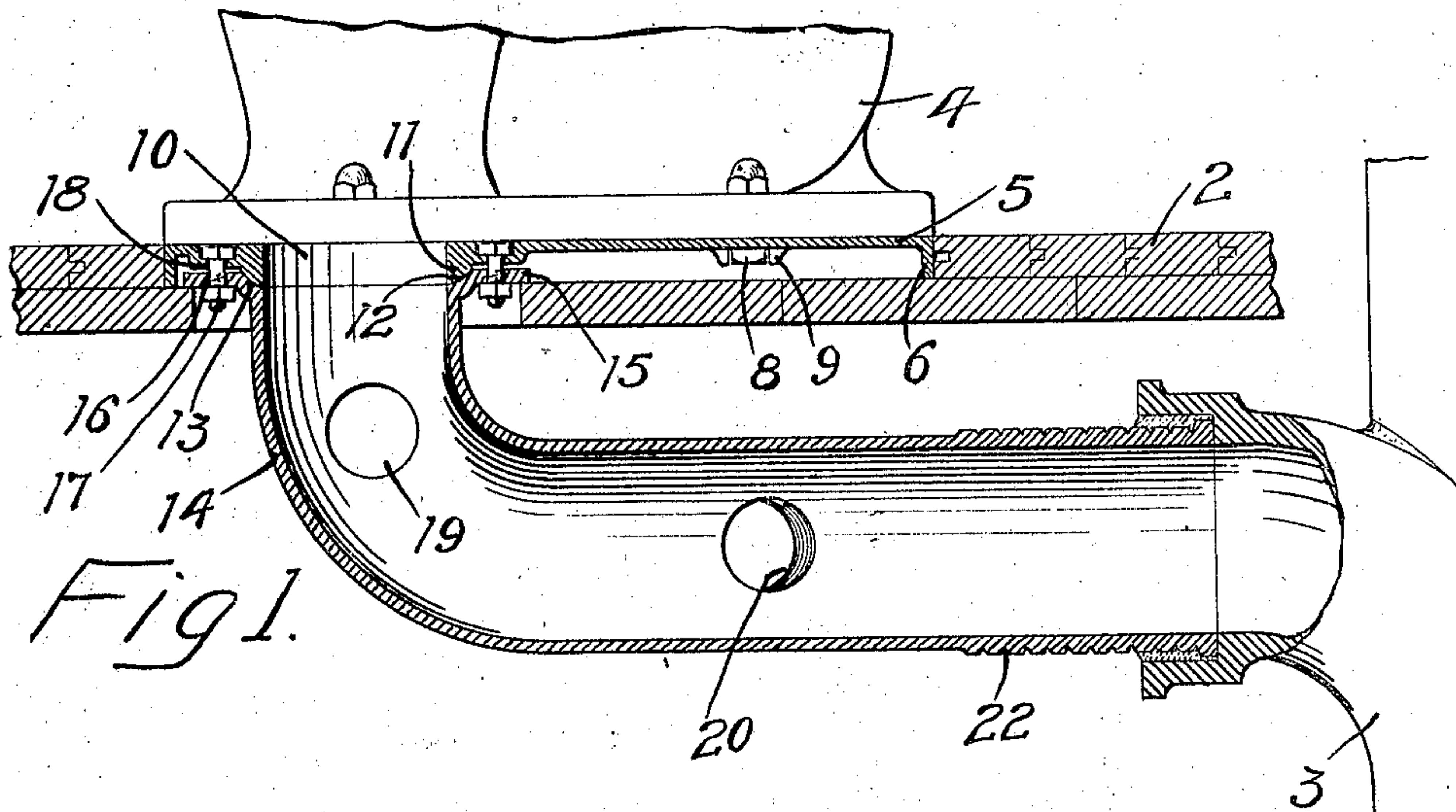


J. J. McGUIRE.
WATER CLOSET.
APPLICATION FILED APR. 1, 1907.

911,748.

Patented Feb. 9, 1909.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN J. McGUIRE, OF MINNEAPOLIS, MINNESOTA.

WATER-CLOSET.

No. 911,748.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed April 1, 1907. Serial No. 365,681.

To all whom it may concern:

Be it known that I, JOHN J. McGUIRE, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification.

The object of my invention is to provide an improved connection between the water closet base and waste pipe, whereby the ordinary lead bend may be dispensed with and all danger of leakage arising from breaks in the joints through settling of the floor or for other causes will be entirely avoided.

The invention consists generally in providing a base having a connection with the waste pipe and on which base the water closet is secured.

In the accompanying drawings, forming part of this specification, Figure 1 is a view illustrating my invention in use, the base and connection with the waste pipe being shown in section. Fig. 2 is a detail view partially in section of the pipe connection between the closet base and the waste pipe. Fig. 3 is a view of the under side of the base.

In the drawing, 2 represents the floor, 3 the waste pipe and 4 the lower portion of a water closet. Generally these closets are secured to the floor by bolts or screws and connected by a lead bend with the waste pipe. It is difficult to secure the closet to a tile or cement floor and it often happens when the floor settles or becomes uneven through any cause, that the closet will be tilted sufficiently to break the joint between it and the waste pipe connection and cause a leak. Furthermore, owing to the position of the waste pipe it is often difficult to make the connection with the closet. To obviate all these objections, I provide a base 5, preferably of cast metal, having a depending flange 6 on its edge that corresponds in width substantially to the thickness of the finish floor so that the top of the base will be flush with the floor. A series of holes 7 are provided in the base to receive bolts 8 which secure the closet to the base, and ribs 9 are preferably formed on each side of the said holes on the under side to engage the bolt heads and prevent the bolts from turning when the closet is being mounted. The bases will be made to fit the standard types of closets.

Near one end the base is provided with a comparatively large opening 10 having a depending flange 11 on its under side provided

with a curved bearing surface 12 that is adapted to fit an oppositely curved surface 13 in the end of a pipe 14. These surfaces when placed together form in effect a ball and socket joint and allow the pipe to be tilted up or down or to the side in fitting it to the waste or soil pipe, so that the plumber in putting in the closet can easily adjust the pipe to fit the connections without disturbing the horizontal position of the base. When the pipe has been fitted the bolts are tightened and the joint formed by the ball and socket will be rigid and immovable. The pipe 14 has a horizontal flange 15 around the surface 13, said flange having curved slots 16 therein and bolts 17 which pass through said slots and into holes 18 in said base on each side of the opening 10 therein. The holes 18 are counter-sunk to receive the heads of the bolts and the nuts are tightened on the under side of the flange 15 to hold the base and pipe securely together after connection has been made with the waste pipe. The slots 16 are of sufficient length to allow the pipe to be revolved with respect to the base or the base turned on the pipe to permit convenient connection to the waste pipe regardless of its position with respect to the closet. This construction will be found very convenient as it is often difficult to make a satisfactory connection between the closet and the waste pipe. The pipe 14 has a vent 19 either right or left hand, and connections 20 and 21 for the tub and lavatory. The end of the pipe 14 that extends to the waste pipe is provided with a series of annular grooves 22 so that the plumber can easily and quickly adapt the pipe for the distance between the closet and waste pipe, sawing off the pipe in one of the grooves until the requisite length is obtained. These bases are made of any suitable size and their shape may be varied without altering the character of my invention.

I claim as my invention:

1. The combination with a water-closet and a vertical waste pipe located at one side thereof, of a pipe connection having an upwardly turned elbow at one end and a horizontal portion at its other end, said elbow and horizontal portion being formed in one piece and said elbow end having a laterally extending flange provided with curved slots and bolts passing through said slots and permitting rotary or horizontal adjustment of said elbow end and said horizontal portion

and said elbow end having a ball and socket bearing on the base of said water-closet and the connections between said elbow end and said water-closet permitting the horizontal
5 end portion of said pipe connection to be tilted up or down or to one side or moved horizontally to adapt it to the position of the inlet opening of said waste pipe whereby the use of lead bends and joints is avoided, sub-
10 stantially as described.

2. The combination with a water-closet having a base and a discharge opening and a vertical waste pipe arranged near said base and opening, of a pipe connection having an
15 elbow at one end and a straight portion at its other end, said elbow and said straight

portion being formed in one piece and said elbow end having a laterally extending flange and provided with curved slots and bolts passing through said slots and into said base and permitting rotary movement of said elbow and the horizontal adjustment of said straight pipe section to accommodate said pipe to the position of the inlet opening in said waste pipe, substantially as described.

In witness whereof, I have hereunto set my hand this 30th day of March 1907.

JOHN J. MCGUIRE.

Witnesses:

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