

**No. 712,859.**

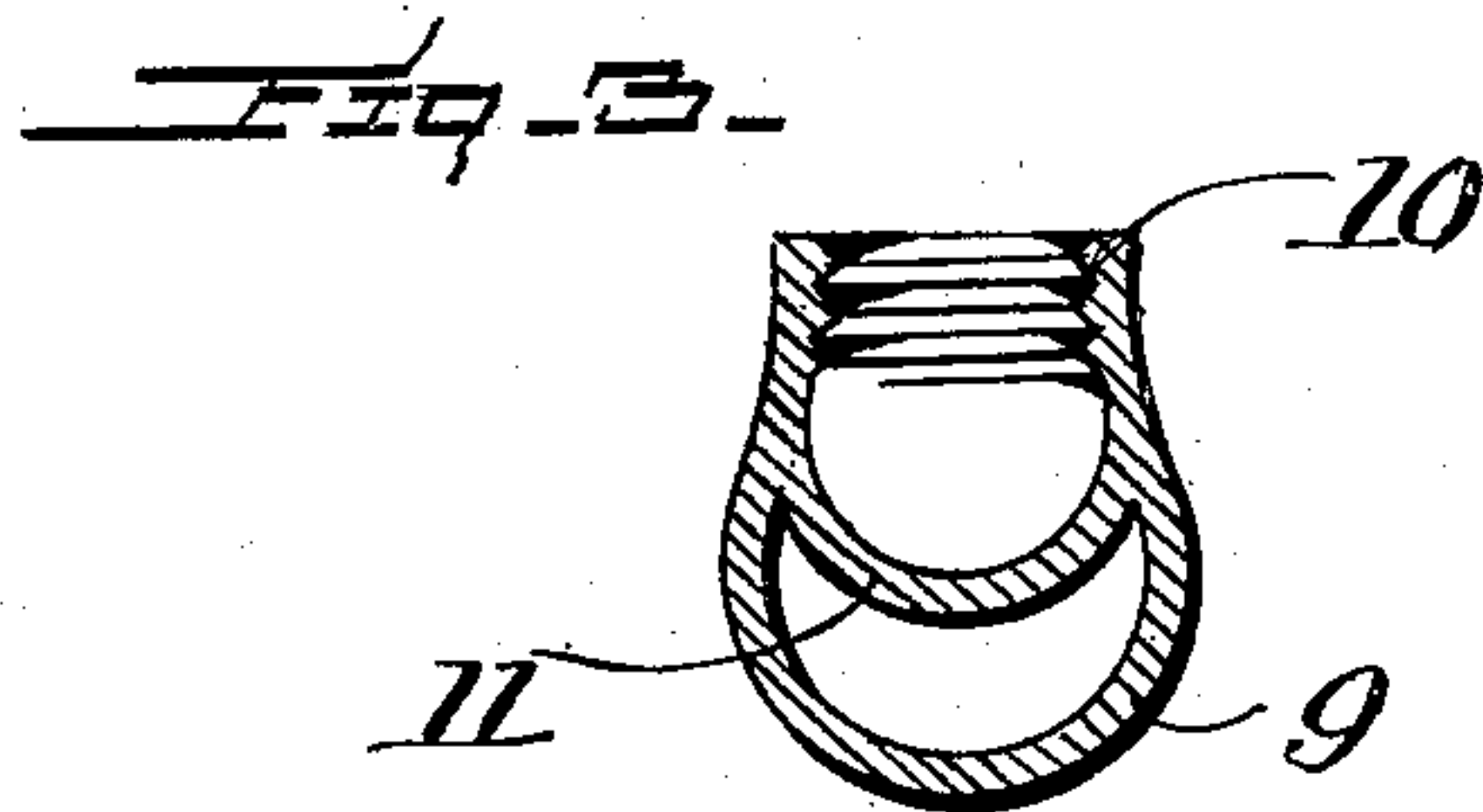
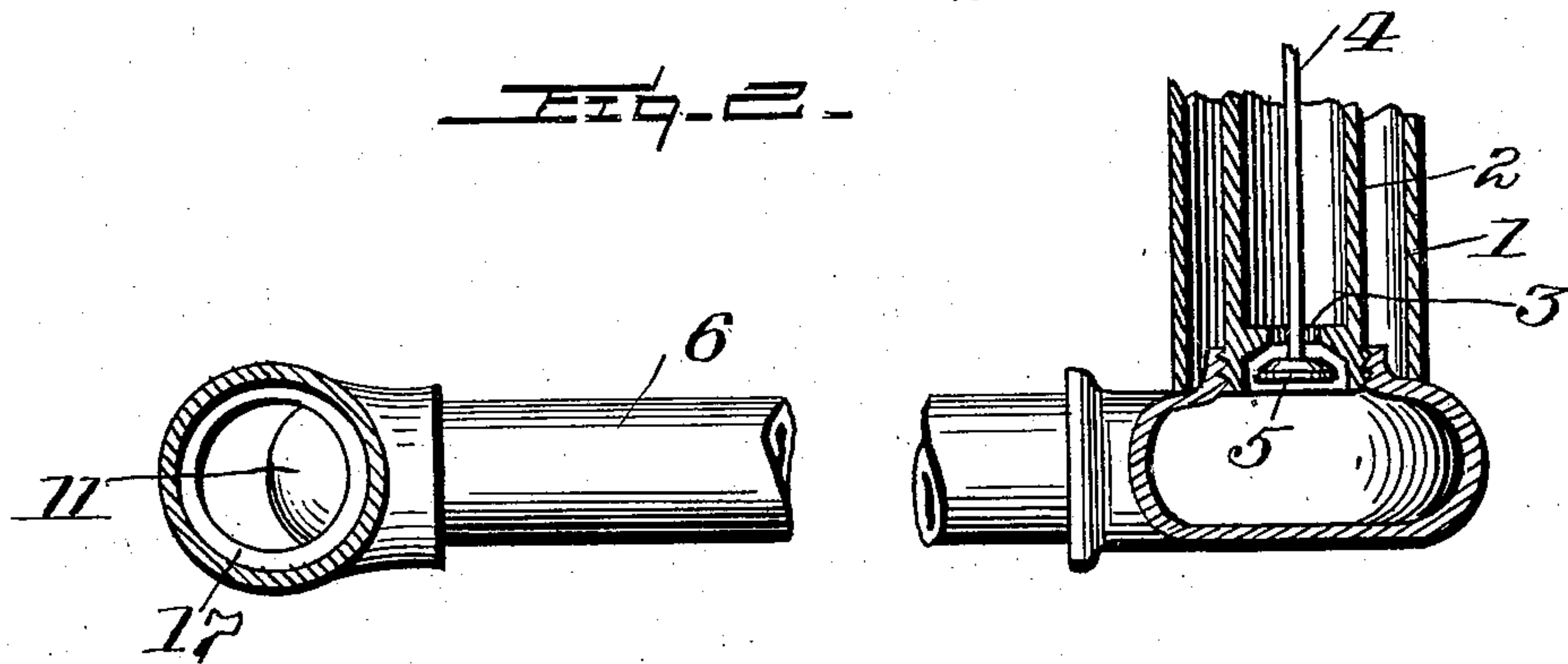
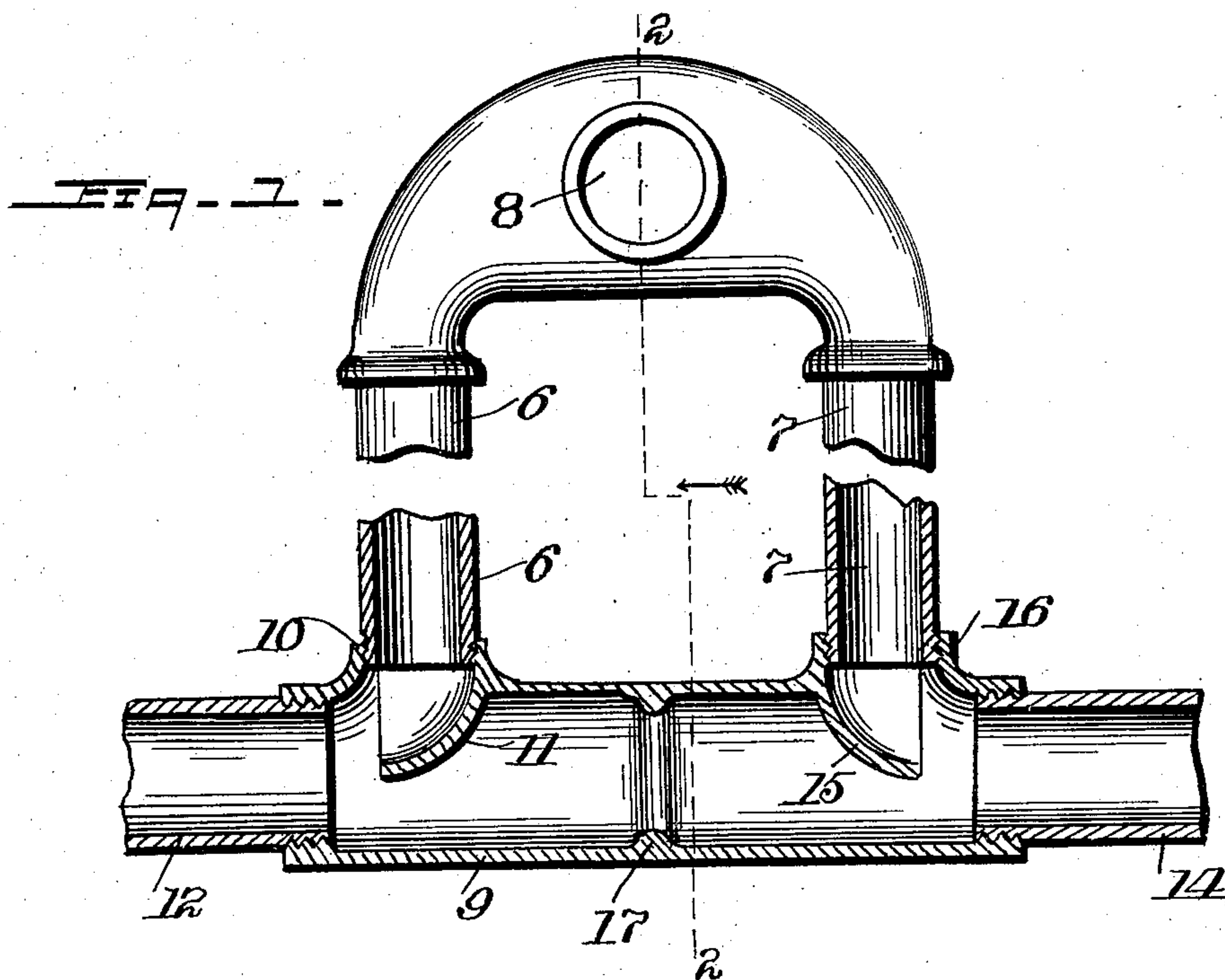
**Patented Nov. 4, 1902.**

**H. SHEERMESSER.**

**FIRE PLUG.**

(Application filed Jan. 31, 1902.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

HENRY SHEERMESSEER, OF MCKEESPORT, PENNSYLVANIA.

## FIRE-PLUG.

SPECIFICATION forming part of Letters Patent No. 712,859, dated November 4, 1902.

Application filed January 31, 1902. Serial No. 92,001. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY SHEERMESSEER, a citizen of the United States of America, residing at McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fire-Plugs, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to certain new and useful improvements in fire-plugs, and more particularly to the main and by-path employed in connection therewith, and has for its object a device of this character wherein the water traveling along the water-main is deflected in its course to flow around the by-path to the fire-plug, and thus prevent the accumulation of any foreign substances, which would eventually clog and render the plug inoperative.

15 My invention has for its further object a fire-plug which obviates the necessity of the well-known periodical flushing, as well as one wherein the rapidity of the flow of the water may be checked in the main, so as to cause the water to readily circulate in the by-path and from thence through the plug to the hose.

20 Further objects of the invention reside in the simplicity and economical construction, as well as the efficient operation.

25 With the above and other objects in view the invention consists in the novel combination and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

30 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification and wherein like numerals of reference indicate like parts throughout the several views, in which—

35 Figure 1 is a top plan view, partly in horizontal section, showing my invention complete. Fig. 2 is a sectional view taken on the line 2 2, Fig. 1. Fig. 3 is a vertical sectional view of one of the deflector-cups.

40 In the accompanying drawings the fire-plug has the usual outer casing 1 and the inner casing 2, the latter having the valve-seat 3, through which operates the stem 4, carrying the valve 5, all of which construction is well known in the art. The by-path comprises two pipes 6 7, secured one to each end of the

casing 8 and having their lower end exteriorly threaded. Communicating with the pipes 6 7 is the main 9, which has the interiorly-threaded collars 10 16 formed integral with the side thereof receiving the threaded ends of the pipes 6 7. These collars have inwardly-extending deflecting-cups 11 15 formed integral therewith, which are of a substantially arc shape, the lower portion thereof extending about midway of the height of the main, the cups extending entirely across the latter. For the purpose of receiving the main pipes 12 14 the ends of the main 9 are interiorly threaded.

45 We will assume that the water is running in a direction left to right, in which event a portion of the water will be deflected by cup 11 in a direction transverse to its course, the remainder of the water continuing in its normal direction. In order to retard the rapidity of flow of the water continuing in the horizontal direction, I form integral with the interior of the main 9 an annular ridge or projection 17, located approximately central of the ends thereof. Thus when the water is engaged by the ridge or projection its flow will be checked, permitting a greater quantity to enter the pipe 6 and from thence flow to the plug. When the plug is not in operation, the water will circulate along pipe 6 through the casing 8 and from there through the pipe 7, when it will be engaged by the deflecting-cup 15 and will then continue on its course through the main pipe 14. It will be thus seen that a continual flow of water through the casing 8 is maintained at all times, which effectually prevents the accumulation of foreign substances, and thereby eliminates the necessity of flushing, as well as materially decreasing the liability of the water becoming frozen within the plug.

50 It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

1. The combination with the fire-plug having a by-path connected thereto, of a main carrying oppositely-disposed deflecting-cups one in proximity to each end thereof, collars car-

ried by the main above said cups and connected to the by-path, and a projection located within said main adapted to retard the flow of water, substantially as described.

5 2. The combination with the fire-plug having a by-path connected thereto, of a main interposed between the ends of the by-path and carrying interiorly-threaded collars at each end connected thereto, a deflecting-cup formed  
10 integral with each collar and extending en-

tirely across the main, and a projection on the interior of the main located substantially central thereof and adapted to retard the flow of the water, substantially as described.

In testimony whereof I affix my signature 15  
in the presence of two witnesses.

H. SHEERMESSER.

Witnesses:

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