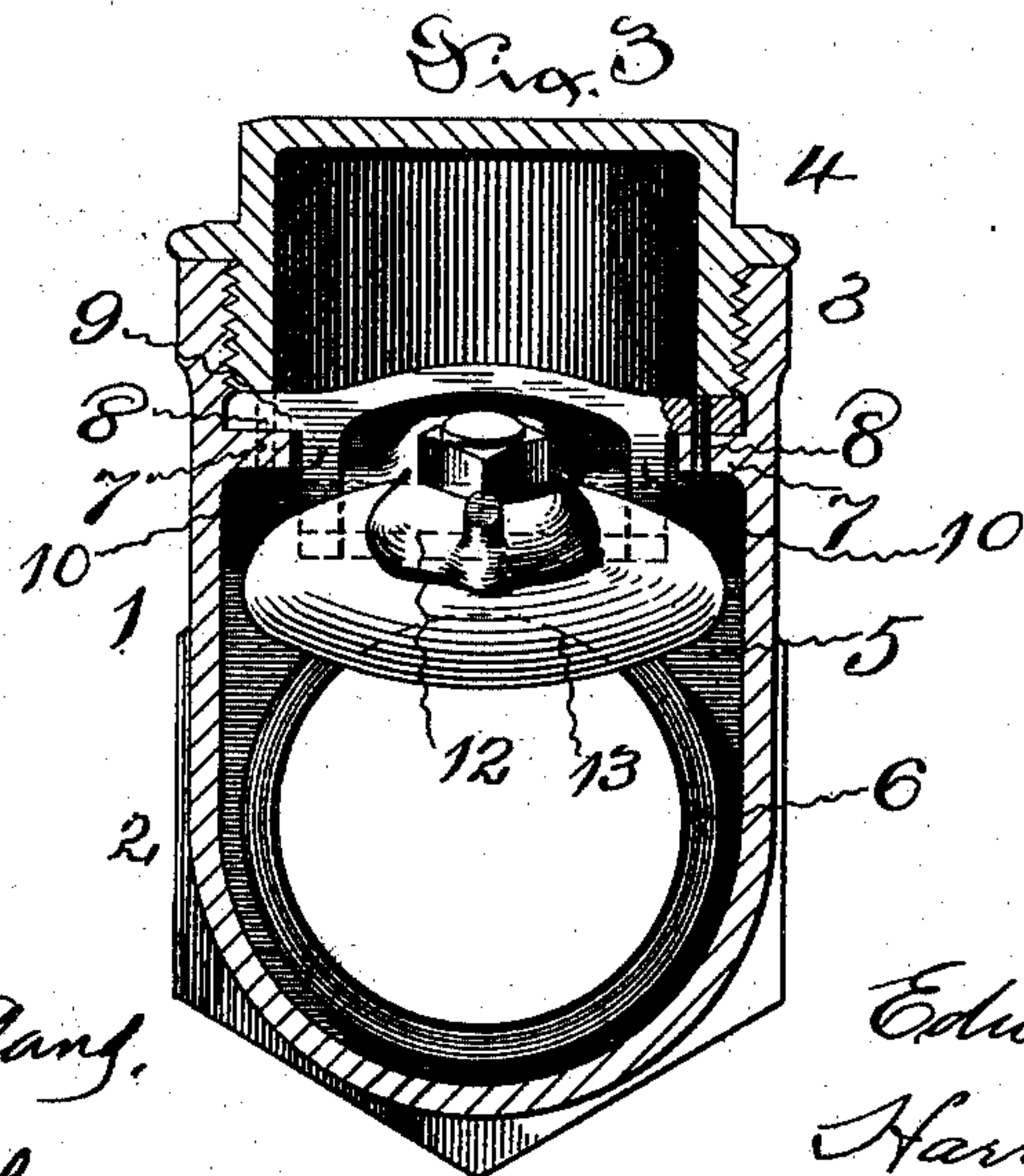
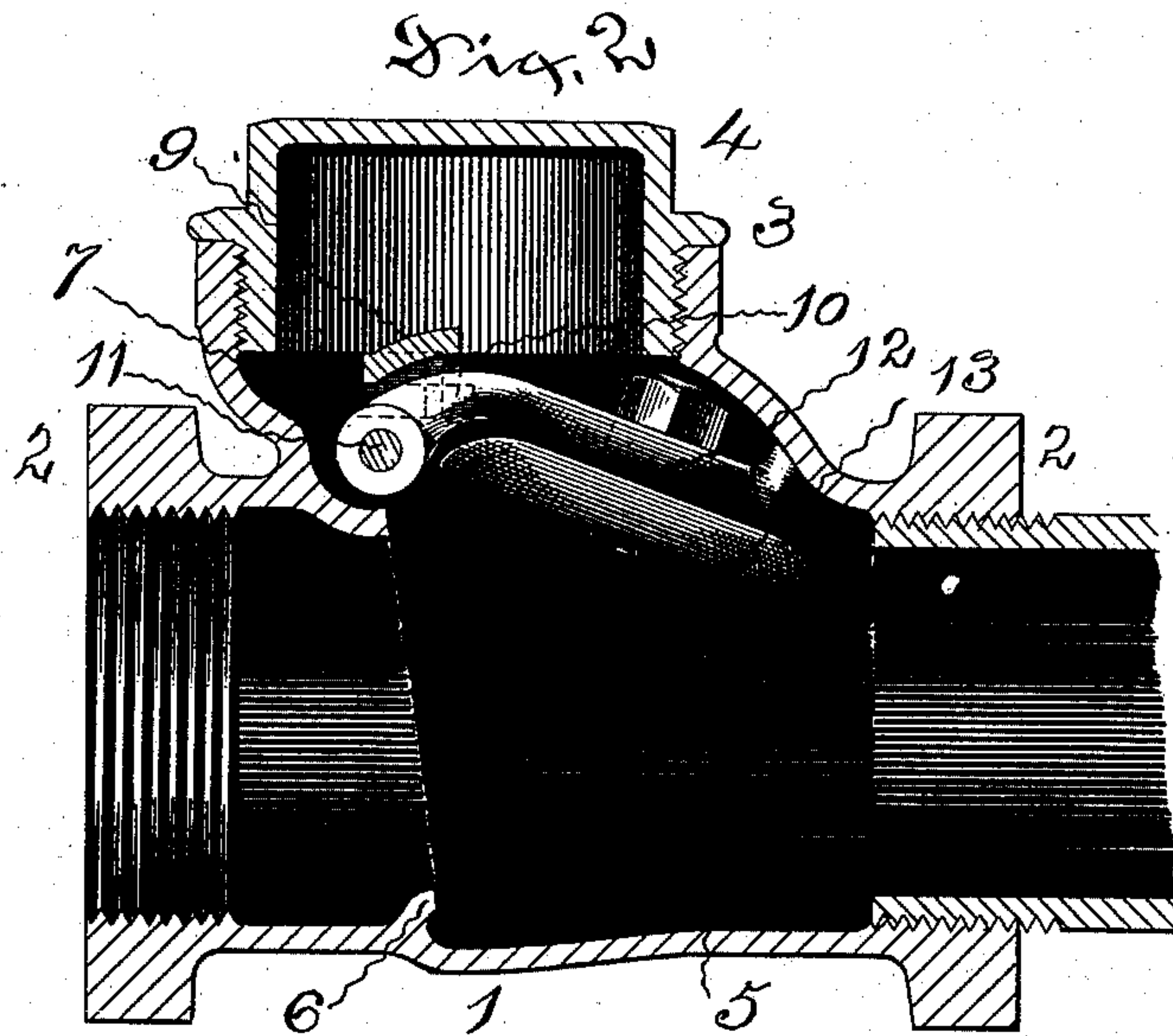
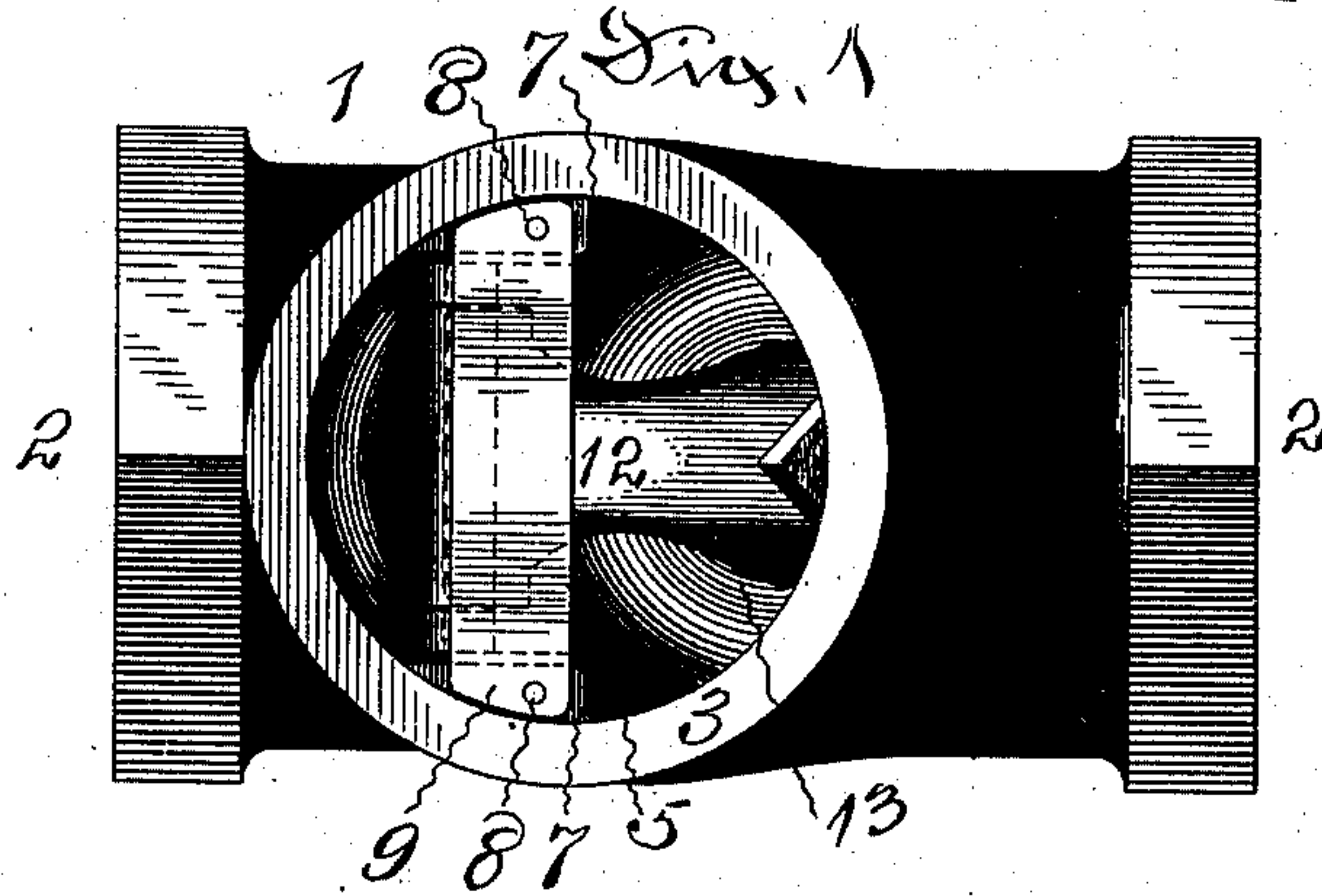


(No Model.)

E. C. HENN.
VALVE.

No. 505,792.

Patented Sept. 26, 1893.



Witnesses:

O. E. Beckland,
C. H. Longley

Inventor
Edwin C. Henn, by
Harry R. Williams
Atty

UNITED STATES PATENT OFFICE.

EDWIN C. HENN, OF BLOOMFIELD, ASSIGNOR TO THE STANDARD MANUFACTURING COMPANY, OF HARTFORD, CONNECTICUT.

VALVE.

SPECIFICATION forming part of Letters Patent No. 505,792, dated September 26, 1893.

Application filed June 27, 1892. Serial No. 438,224. (No model.)

To all whom it may concern:

Be it known that I, EDWIN C. HENN, a citizen of the United States, residing at Bloomfield, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Valves, of which the following is a full, clear, and exact specification.

The invention relates to the class of straight-way check or back pressure valves having a removable disk, the object being to provide a simple, cheap, light and strong valve of this class having interchangeable parts, in which the disk, that will set tightly and securely every time in the same position against the seat, can be quickly and accurately inserted in position or removed therefrom for the purpose of cleaning, repairing or renewing; and to this end the invention resides in a valve consisting of a body having ports, disk chamber, and seat, with ears or lugs on the body extending into the disk chamber, a bridge to which the disk is pivoted supported by the lugs, dowel pins or studs removably securing the ends of the bridge to the lugs, and a cap to cover an opening into the disk chamber, as more particularly hereinafter described and pointed out in the claim.

Referring to the accompanying drawings:—
30 Figure 1 is a plan, with the cap removed. Fig. 2 is a longitudinal section; and Fig. 3 is a transverse section of a valve embodying the invention.

In the views 1 indicates the body which is cast to shape of any common metal, as iron, brass or bronze, in the usual manner, with the pipe ends 2 which may be flanged, belled or screw-threaded as shown for connecting the valve with the system in which it is to be used; a cap end 3 for a cap 4 that may be taken off for inserting or removing the disk; a disk chamber 5, and a seat 6 around one of the ports.

Usually cast integral with the side walls of the body on the interior of the disk chamber, are ears or lugs 7 which are perforated, bored or tapped to receive dowel pins or studs 8 that are riveted, screwed or otherwise firmly secured to the lugs so as to project upward from their top surface.

Extending across the chamber from side to

side and resting on the lugs is a bridge 9 having perforations or sockets that receive and fit the dowel pins on the lugs, so that when the bridge is placed in position the pins pass into the perforations and hold the bridge securely and accurately in place.

Projecting from the bridge are ears which can be readily machined to exact gage and bored to receive the pivot 11 that bears the swinging arm 12 to which is secured, usually by a screw and nut, a disk 13 having its face formed and adapted to fit closely against the seat when the valve is shut. When the bridge is placed upon the lugs the dowel pins center as well as hold it and insure that it will remain in the exact position for the disk to shut correctly against the seat, in which position the bridge is securely held by the cap when the latter is secured in place over the cap end of the body.

To remove the disk the cap is unscrewed and the bridge lifted from the lugs, it readily sliding off the pins. The valve is strong as there are no openings through the walls, therefore can be made light in weight, the parts can all be readily machined and the dowel pins cheaply secured to the lugs on the body so that the bridge which can be accurately and cheaply bored for the purpose will slip easily upon the pins and be held in exact position each time so that the parts are made interchangeable and the valve always shut tight.

I claim as my invention—

A valve consisting of a body having pipe and cap ends, a disk chamber and seat, with two ears projecting from the side walls of the body into the disk chamber, a narrow bridge extending across the chamber, with its ends resting upon the ears, small guiding and holding pins projecting from one part into the other to temporarily secure the ends of the bridge to the ears, an arm pivoted to the bridge, a disk secured to the arm, and a cap held upon the cap end, substantially as specified.

EDWIN C. HENN.

Witnesses:

H. R. WILLIAMS,
C. E. BUCKLAND.