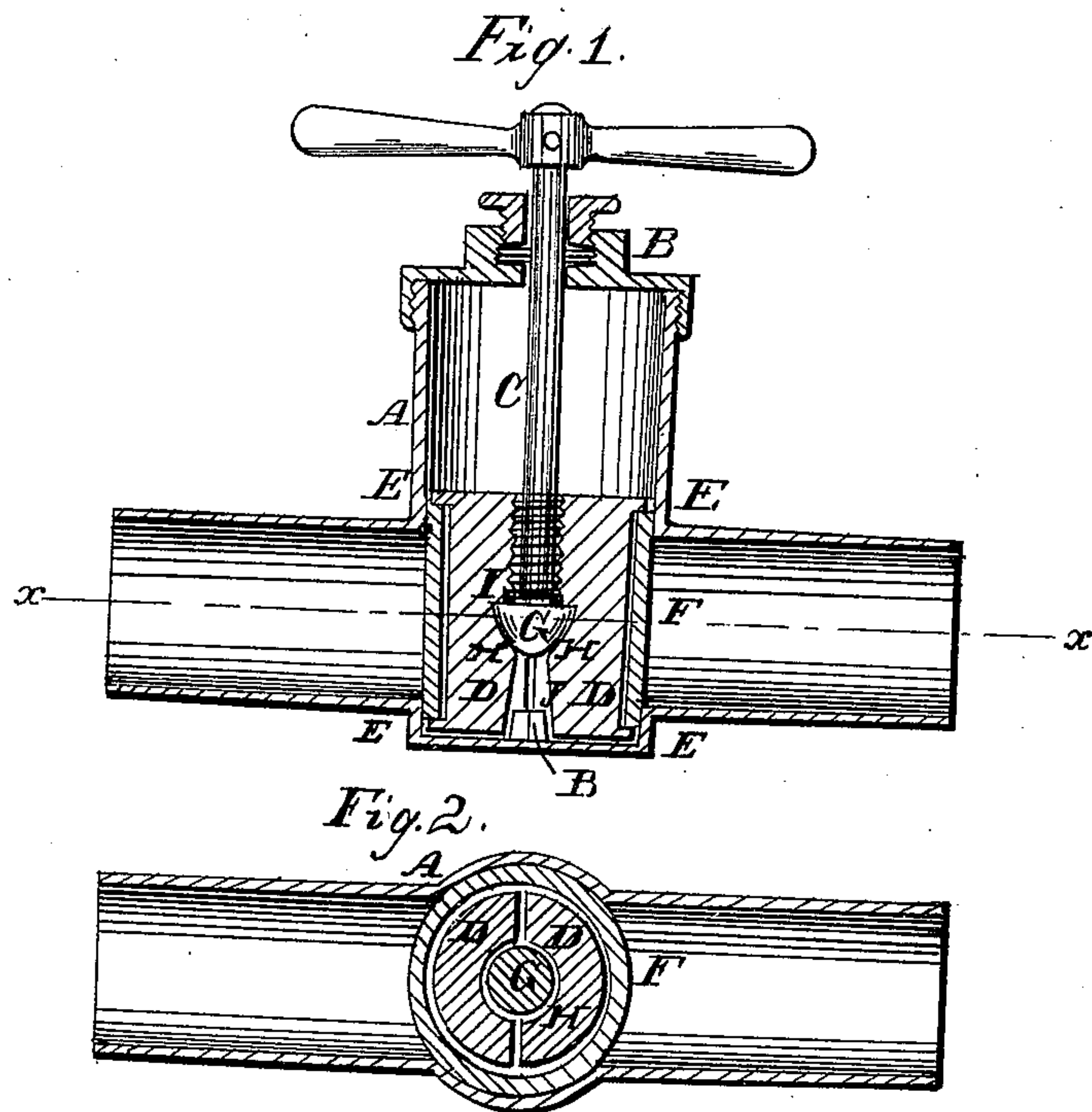


S. J. PEET.

Stop Valve.

No. 99,943.

Patented Feb. 15, 1870.



Witnesses:

C. Wahlers
C. F. Hastenhuber

Inventor:

S. J. Peet
per
Vandewater & Hoff
Attys.

United States Patent Office.

S. J. PEET, OF NEW YORK, N. Y.

Letters Patent No. 99,943, dated February 15, 1870.

IMPROVEMENT IN STOP-VALVES FOR STEAM AND OTHER ENGINERY.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern :

Be it known that I, S. J. PEET, of the city, county, and State of New York, have invented a new and useful Improvement in Stop-Valves; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a central section of a valve made according to my invention.

Figure 2 is a transverse section in the line *xx* of fig. 1.

Similar letters indicate corresponding parts.

My invention relates to valves or cocks for steam, water, or other fluids, wherein the valve proper is composed of independent parts or pieces, operated by a closing or lifting wedge arranged on the stem of the valve, as shown in my Letters Patent of the United States, No. 60,932, dated January 1, 1867.

In my present improvements the same principle of construction is applied to round valves and valve-seats, and

The improvements consist, among other things, in inclosing the divided valve with a rubber ring or band; also, in tinning the surfaces of the valve and its shell to prevent injury to the metal from the action of sulphur contained in the rubber.

The letter *A* designates the shell of the valve, which may be made of brass, iron, or other suitable material, of the shape of an inverted *T*, the ends being intended to connect with the pipes to which the valve is to be attached, the central part being closed by the cap *B*, the center of which is perforated and provided with a stuffing-box in the usual manner, through which the valve-stem *C* is free to slide.

The valve proper is composed of two or more parts, by whose separation or contraction the opening or closing thereof is effected. In this example I have made it of two parts or halves, *D D*, which separately have the general outline of semi-cylinders, and together form the general outline of a cylinder, each part *D*, at its ends, being provided with flanges *E E*, which serve to keep the rubber coat of the valve in place.

This coat is formed of a rubber ring or band, *F*, which embraces the divisions *D D*, and holds them together, forming the surface which closes or comes upon

the valve-seats, and also operating as a spring to contract the valve when the parts *D D* are relieved from the action of the wedge or cone *G*.

The lower or inner end of the stem which carries the expanding wedge or cone is received between the divisions *D D*, which are hollowed out so as to form, when the divisions are brought together, a wedge-shaped or conical cavity, *H*, of similar form to the wedge *G*, the wedge being provided with a square shoulder, *I*, that catches under corresponding projections in the divisions *D*, as shown in my previous patent.

That part of the stem which is inclosed by the divisions *D D* above the wedge or cone *G* is provided with a screw-thread, which engages with screw-threads cut in the said divisions, so that if, after the valve has been pushed down to its proper place in the shell, the stem is then turned, the screw-threads cause the wedge to enter further into the valve between said divisions and to separate them, thereby forcing them toward their seats.

The bottom of the shell has a pyramidal projection, *R*, truncated, which rises from its center and enters a corresponding opening, *J*, with tapering sides made in the bottom of the valve, one-half thereof in each division, the arrangement being such that the projection *R* acts both as a guide to the valve and as a means of insuring its expanding at the bottom.

In order to preserve the valve and shell and other parts from the injurious action of the sulphur in the rubber, I coat them with tin, and such coating can be renewed whenever it is found necessary.

What I claim as new, and desire to secure by Letters Patent, is—

1. Inclosing a valve, made of two or more separate divisions, by a rubber covering or ring, substantially as set forth.

2. Tinning the surfaces of the valve and shell which are exposed to the action of the sulphur of the rubber, substantially as and for the purposes described.

This specification signed by me this 17th day of June, 1869.

S. J. PEET.

Witnesses:

C. BONSOR,

W. H. WATSON.