

J. W. FULLER.
 STEAM GAGE COCK.
 APPLICATION FILED APR. 4, 1910.

1,037,176.

Patented Aug. 27, 1912.

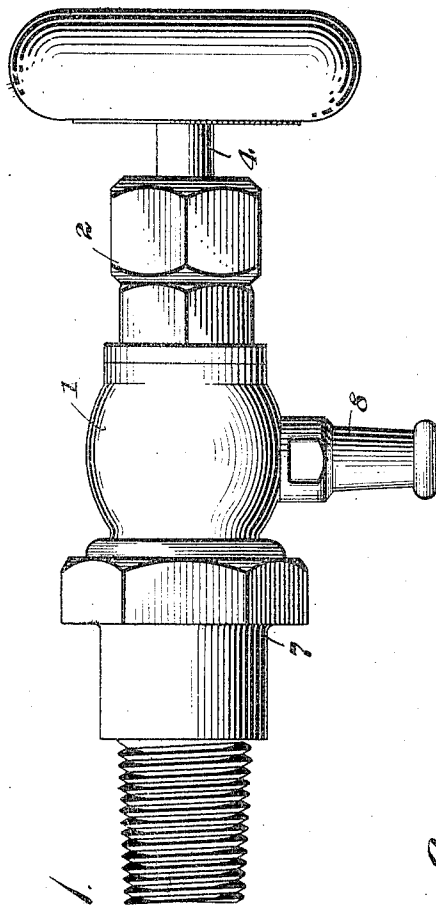


Fig. 1.

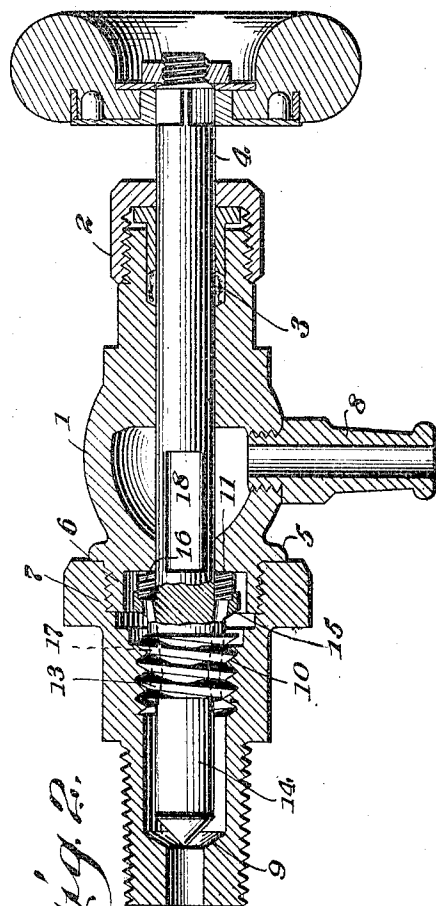


Fig. 2.

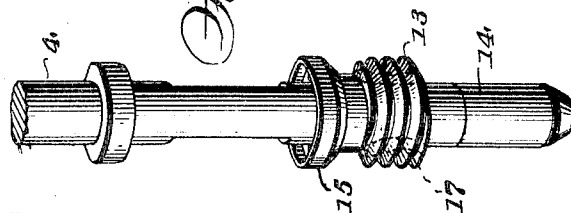


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN W. FULLER, OF JERSEY CITY, NEW JERSEY, ASSIGNOR OF ONE-HALF TO W. E. NEARPASS, OF JERSEY CITY, NEW JERSEY.

STEAM GAGE-COCK.

1,037,176.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed April 4, 1910. Serial No. 553,430.

To all whom it may concern:

Be it known that I, JOHN W. FULLER, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented new and useful Improvements in Steam Gage-Cocks, of which the following is a specification.

This invention relates to improvements in steam gage cocks, and the object is to provide a cock of simple and improved construction which will operate in an effective manner and which is durable in construction.

With the above object in view, the invention consists in the novel features of construction hereinafter fully described, particularly pointed out in the claims, and clearly illustrated by the accompanying drawing, in which—

Figure 1 is a side elevation of a steam-gage cock constructed in accordance with my invention; Fig. 2, a longitudinal sectional view through the same, and Fig. 3, a view of the valve-stem.

Referring now more particularly to the drawing, the numeral 1 indicates the body or globe, and 2 the gland threaded upon the upper end thereof, packing 3 being arranged at that end for the valve-stem 4. At its lower end the body is formed with a flange 5 and a screw-threaded portion 6 to engage the screw-threaded upper end of the barrel or shank 7 which is exteriorly threaded at its lower end to screw into the boiler, the flange 6 forming a steam-tight joint. The body is provided with the nipple 8 as illustrated. The barrel or shank is formed at its lower end with a seat 9 and near its upper end with screw-threads 10 at the upper end of which is a chamber in which one of the valves carried by the valve stem is movable to engage with a seat 11 formed at the upper end of the chamber.

12 designates the valve stem having a handle at its outer end by means of which it may be rotated to seat or unseat its valves. It is provided near its lower end with a threaded portion 13 to engage the screw-threads 10 of the barrel or shank, the threads 10 and those of the stem being left-hand. At its lower end said stem carries a valve 14 which is screwed thereon so as to be detachable. This valve is of hard material and it may be detached and ground

without the necessity of a special machine. Said stem carries, above the screw-threaded portion, a substantially cup-shaped valve 15 in which a disk 16 preferably of hard-rubber is inserted, which is adapted to engage the seat 11. The cup-shaped valve holds the disk from breaking or spreading. Extending through the screw-threaded portion are passages 17 for water, while the stem above and adjacent to the valve 15 is formed on opposite sides with grooves 18 to permit the steam to pass to the globe or body and the nipple.

My gage cock will not leak water when there is no pressure on the boiler, as it is not shut off by boiler pressure, being closed and operated by a screw stem turned by the hand, and if there should be a leak through the disk it can be screwed up tightly a few times, making a new steam tight joint without putting on a new disk.

It is impossible for my valve to get cross threaded while shutting it off to make repairs as there is only one thread on which the cock is operated and further it will not get plugged up as a wire can be drawn through the small holes while the pressure is on the boiler.

If the disk gives out on the road the cock can be screwed down and operated on the hard seat also the cock can be operated on both seats.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent of the United States, is:—

1. A steam gage cock comprising a barrel, a body portion removably mounted on said barrel, a valve-stem threaded into the barrel and having passages therein and two valves rigidly arranged on said stem and interposed between the barrel and body-portion, said valves adapted to seat at opposite limits of movement of the stem.

2. A steam gage cock comprising a barrel, a body portion removably mounted on said barrel, a valve-stem threaded into the barrel and having passages therein, valves carried by the stem, one above and one below, the threaded connection of the stem with the barrel, and seats in the barrel and body for said valves.

3. A steam gage cock comprising a barrel, a valve seat formed within said barrel, an internally threaded portion above said

valve seat, a second threaded portion above
said first mentioned threaded portion, a
threaded body portion adapted to screw
into said second mentioned threaded por-
5 tion, a valve stem extending through said
body portion and barrel, an outlet member on
said body portion, a valve at the lower end
of said valve stem and adapted to co-act with
said valve seat in the barrel, screw threads
10 on said valve stem above said valve and

adapted to co-act with said first mentioned
threaded portion, and by-pass ports for con-
ducting the fluid past said threaded portion
of the valve stem.

In testimony whereof I affix my signa- 15
ture in the presence of two witnesses.

JOHN W. FULLER.

Witnesses:

CHAS. F. TAYLOR,
CHRIS McLELLAN.