

(No Model.)

J. JUNGBLUTH.
GAGE COCK.

No. 444,360.

Patented Jan. 6, 1891.

Fig. 1.

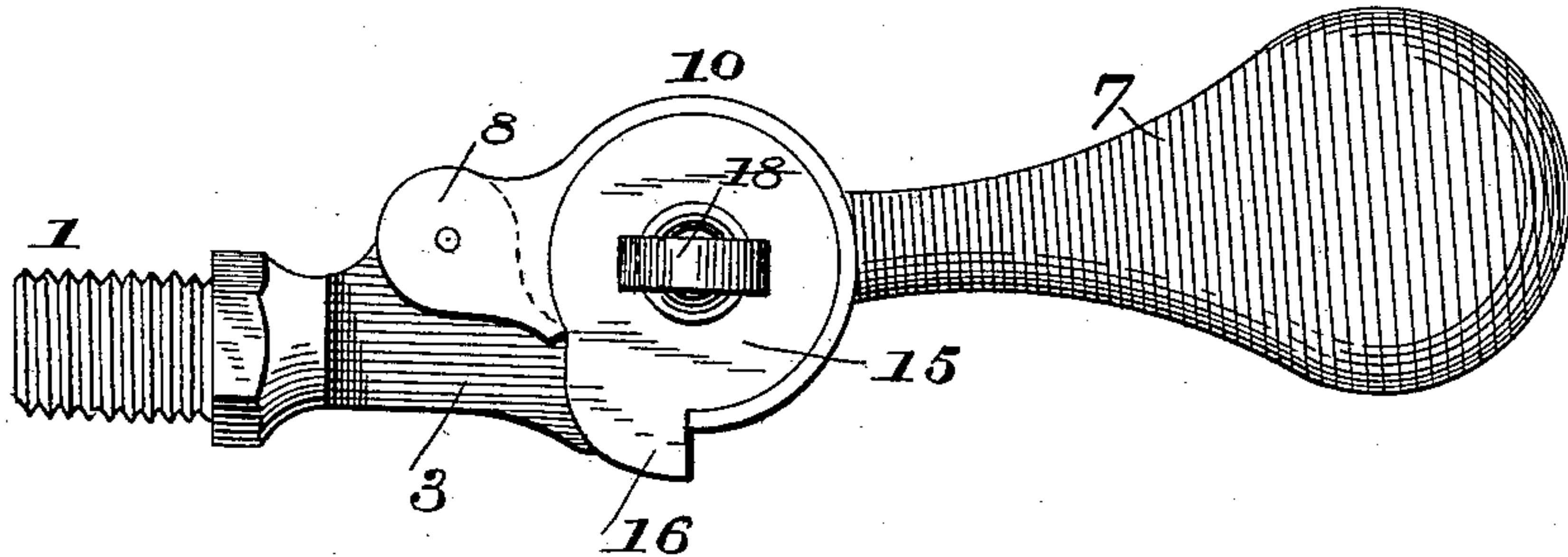


Fig. 2.

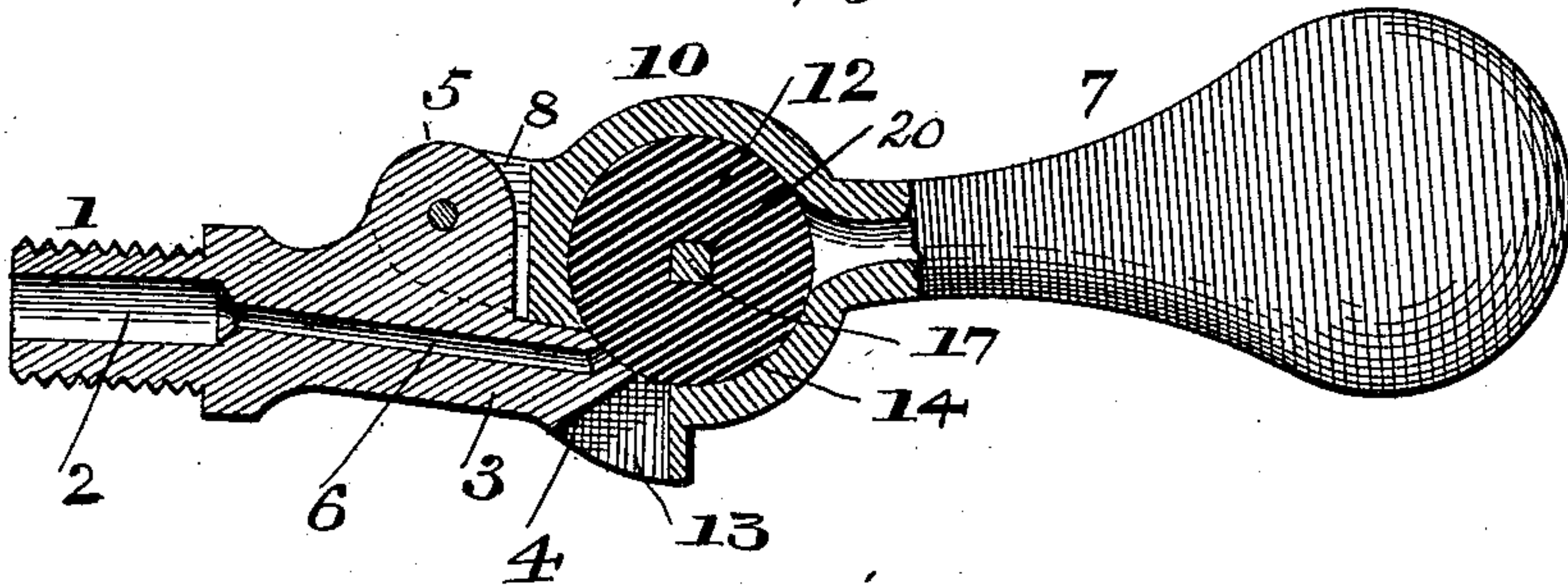
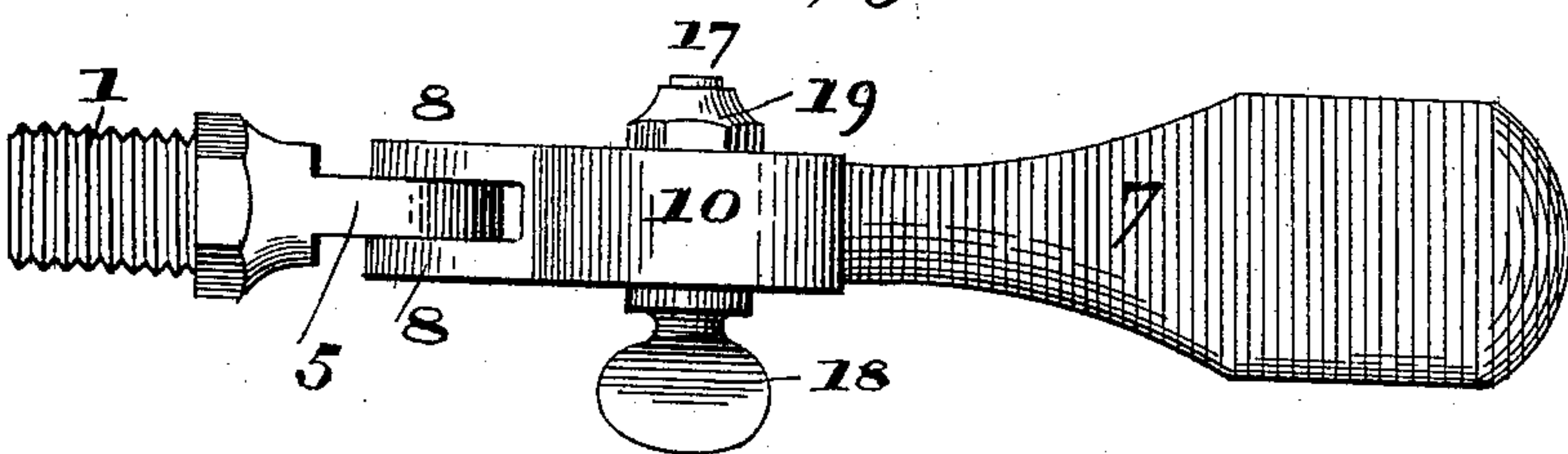


Fig. 3.



WITNESSES:

F. L. Ourand
J. L. Bloomer

INVENTOR:

Joseph Jungbluth
J. Davis Caggett & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

JOSEPH JUNGBLUTH, OF ERIE, PENNSYLVANIA.

GAGE-COCK.

SPECIFICATION forming part of Letters Patent No. 444,360, dated January 6, 1891.

Application filed August 12, 1890. Serial No. 361,841. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH JUNGBLUTH, a citizen of the United States, and a resident of Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Gage or Test Cocks for Steam-Boilers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to improvements in gage or test cocks for steam-boilers of that class in which the steam orifice or passage is closed by means of a valve carried by a weighted lever, which is held in proper position by gravity.

The object of the invention is to provide a device of the above description which shall be simple and economical in construction, durable in use, and effective and reliable in operation, and in which the valve carried by the weighted lever closing the steam-passage can be shifted or adjusted so as to present a new surface thereto in order to compensate for wear.

The invention consists in the novel combination and construction of parts herein-after fully described, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of a gage-cock constructed in accordance with my invention. Fig. 2 is a central sectional view, and Fig. 3 is a plan view, of the same.

In the said drawings, the reference-numeral 1 designates a nozzle or coupling provided with screw-threads at one end, by which it may be inserted and secured in a steam-boiler and having a central bore 2. The other end of this nozzle is formed with a flat extension 3, having its ends double-beveled, as at 4. It is also formed with an upwardly-projecting lug 5 and has a steam-passage 6 communicating with the bore of the nozzle and terminating at the upper beveled part 4.

The numeral 7 designates a weighted lever provided with the studs 8 8, which embrace and are pivoted to lug 5. Intermediate of the studs 8 8 and the ball or weighted end 9

of the lever is a circular portion 10, provided with an annular recess to receive the valve 12, which consists of a disk of rubber, leather, metal, asbestos, or other material which may be found suitable. The lower part of this circular portion is provided with a groove or is cut away at 13, which receives the free end of the nozzle 1. 6c

The numeral 14 designates an annular recess, within which seats the washer 15, having peripheral projections 16, said washer forming a cover to the recessed portion 10, and is provided with a central aperture, through which passes a stem or rod 17, and which also passes through the valve and the wall of the said circular portion. One end of this rod or stem is formed with a thumb-piece 18, while its other end is screw-threaded and provided with a binding-nut 19, while the intermediate portion is square or angular to prevent the disk from turning thereon. 70

The operation will readily be understood. When in normal position, the valve-disk will seat against the beveled end of the nozzle or coupling, closing the steam-passage, being held in this position by gravity. To open the valve, it is only necessary to raise the ball or weighted end of the pivoted lever. In order to present a new valve-seat to the steam-passage to compensate for wear, the binding-nut 19 is loosened and the disk slightly turned by means of the thumb-piece 18, and in case the disk should become completely worn out it can be replaced by another by simply taking off nut 19, withdrawing the stem 17 and washer 15, and removing the disk and placing a new one on the stem. The parts are then put together and the binding-nut applied and screwed home. 80 85 90

From the above it will be seen that the valve-disk can present a large number of different seats or faces to the steam-passages, as in adjusting it to form a new seat it is only necessary to give it but a very slight turn. The disk can also be removed and replaced by another under full boiler-pressure, and the invention possesses other advantages not necessary here to enumerate, as they will be obvious to those skilled in the art. 95 100

Having thus described my invention, what I claim is—

1. In a gage-cock, the combination, with a

coupling having a steam-passage, of a pivoted lever having a circular recessed portion, a washer, a disk-valve, and a stem having a thumb-piece, a screw-threaded end, and a
5 square or angular intermediate portion, substantially as described.

2. The combination, with the coupling 1, having steam-passage, and projecting lug 5, of the lever 7, having weighted end and studs
10 8 8, a circular recessed portion 10, having groove 13 and annular recess 14, the washer

15, having peripheral projections 16, the stem or rod 17, having thumb-piece 18, square or angular portion 20, and the binding-nut 19, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOSEPH JUNGBLUTH.

Witnesses:

LOUIS ALBRACHT, Jr.,

HERMAN J. CURTZE.