

V. Giroud,
Steam Gage Cock,
Nº 49,623, Patented Aug. 29, 1865.

Fig: 1

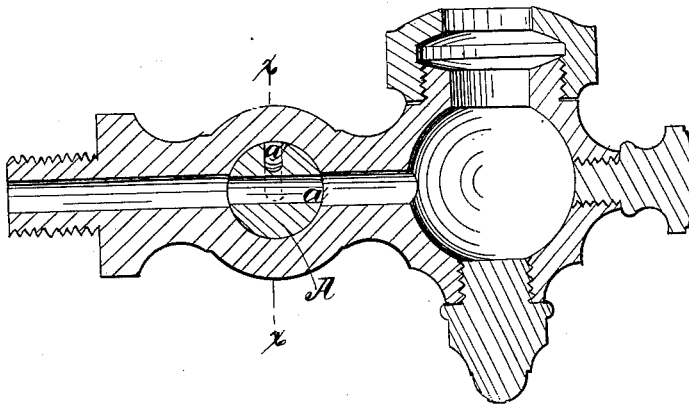
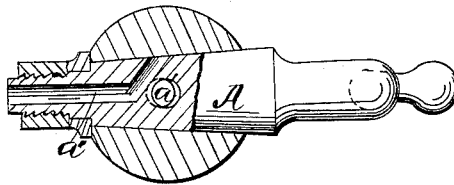


Fig: 2.



Witnesses:
J. W. Columbus
Geo. W. Reed.

Inventor:
V. Giroud

UNITED STATES PATENT OFFICE.

VICTOR GIROUD, OF NEW YORK, N. Y.

IMPROVEMENT IN STEAM-GAGE COCKS.

Specification forming part of Letters Patent No. **49,623**, dated August 29, 1865.

To all whom it may concern:

Be it known that I, VICTOR GIROUD, of the city, county, and State of New York, have invented a new and useful Improvement in Cocks for Water and Steam Gages and for other Purposes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a longitudinal vertical section of the lower socket and cock of a glass water-gage constructed according to my invention. Fig. 2 is a vertical transverse section in the plane indicated by the line *xx* in Fig. 1.

Similar letters of reference indicate corresponding parts in both figures.

This invention consists in a novel arrangement of passages in the plug or spigot of a cock, whereby, in its application to a water or pressure gage, it is made to serve the purpose of forming and closing the communication between the boiler or other vessel and the gage, and also provide for blowing out the socket or tube of the same, thereby obviating the necessity of a separate cock for blowing out, and is made to blow out the water or steam in such direction as will not be productive of injury to the engineer or fireman, or to surrounding articles or structures.

In order to instruct others skilled in the art to construct and use my invention, I will proceed to describe it with reference to the drawings and letters thereon.

The ordinary construction of a cock for a water or pressure gage is provided with a plug, A, which is furnished with the two ways *a'* and *a''*, the former of which runs through the plug in a direction perpendicular to its axis. This way forms the through-communication, when open, with the boiler or vessel to which it is attached and the gage. The second way, *a''*, commences in the same line of rotation, and the center of its aperture is at an angle of ninety

degrees to the way *a'*, and runs obliquely toward the center of rotation of the plug, and alters its course by a bend, the latter part of which runs parallel and concentric with the linear center of the plug, and opens outward to the air upon the side of the gage through the plug A. This arrangement of ways prevents the water, steam, or sediment which may be blown out from coming in contact with the person attending to it, as it would if it were blown out forward of the gage, or at its lower part, in a vertical descending direction.

The plug A is represented in a position for the passage *a'* to form a communication between the boiler or other vessel and the tube of the gage. The way *a''* is brought into communication with the glass or tube of the gage and the atmosphere by turning the plug A the distance of a quarter-circle from the position above described to the right, bringing the handle or lever of the plug into an upright position; and to make a communication with the boiler or other vessel and the atmosphere the plug A must occupy a position directly opposite to that last described. This description relates exclusively to the bottom cock of a water-gage. The same arrangement will apply to the upper cock, excepting the motions of the plug, which will be reversed or in a contrary direction.

This cock is not confined in its uses simply to water-gages upon steam-boilers, but may be applied to any water or steam fixture where such an arrangement is necessary.

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

The arrangement of the way *a''*, as herein described, in relation to the way *a'* in the plug of the cock, for the purpose herein set forth.

V. GIROUD.

Witnesses:

J. W. COOMBS,
GEO. W. REED.