A. W. WILKINSON.

Stop Cocks.

No. 123,534. Patented Feb. 6, 1872.

Fig. 1.

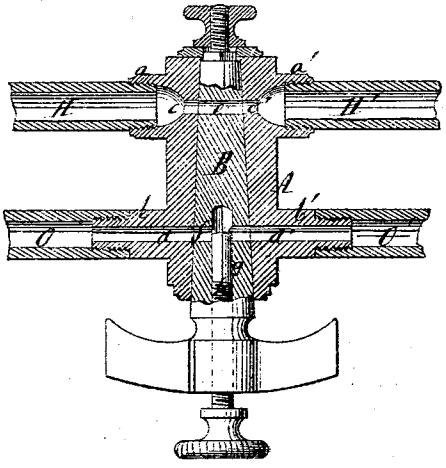
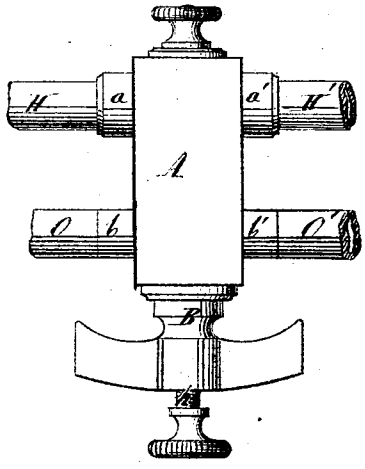


Fig. 2.



Witnesses

Ernst Bilhuber.
E. F. Kastenhuber

Inventor.

Asa W. Wilkinson
By VanSantvoord & Hauff
his attys

UNITED STATES PATENT OFFICE.

ASA W. WILKINSON, OF NEW YORK, N. Y.

IMPROVEMENT IN STOP-COCKS.

Specification forming part of Letters Patent No. 123,534, dated February 6, 1872.

To all whom it may concern:

Be it known that I, ASA W. WILKINSON, of the city, county, and State of New York, have invented a new and useful Improvement in Stop-Cocks; 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 drawing—

Figure 1 represents a longitudinal section of this invention. Fig. 2 is a side view of the same.

Similar letters indicate corresponding parts.

This invention relates to a stop-cock, the plug of which is perforated with two holes and provided with an adjusting-screw, extending through the end of the plug, and serving to regulate the exposed area of one of the holes in the plug in such a manner that by turning said plug the communication between two distinct sets of pipes can be opened or closed simultaneously, and at the same time the quantity of liquid or fluid passing through one set of pipes can be regulated by means of the adjusting-screw entirely independent of the quantity of liquid or fluid passing through the other set of pipes.

In the drawing, the letter A designates the shell of my stop-cock, which is bored out in a longitudinal direction to receive the plug B. On the opposite sides of the shell are provided nipples *a a' b b'*, which are furnished with internal or external screw-threads to receive pipes H H' O O', and these pipes communicate with the bore of the shell A through channels *c c' d d'* extending through the nipples. The plug B is perforated with holes *e f*, which, when the plug is in position and turned, can be brought in line with the channels *c c'* and *d d'*, respectively, so that the communication between both these channels is opened and closed at the same time. The holes *e f*, and also the channels *c c' d d'*, may be made of any suitable size, and they may be of the same or different sizes, according to the nature of the liquids or fluids to be passed through them. Through the large end of the plug B is bored a hole, *g*, which extends transversely through the lower hole *f*, and which is tapped to receive a screw, *h*, and this screw is provided with an extension, the diameter of which is equal to or larger than that of the hole *f*, so that when said screw is screwed up the hole *f* can be partially or wholly stopped. The pipes H and O are intended to connect with reservoirs containing different gases or liquids, and the pipes H' and O' are intended to conduct these gases or liquids to the spot where they are to be mixed, and by turning the plug B in the proper position both sets of pipes are opened simultaneously and the gases or liquids pass through them. If it is desired to diminish the quantity of gas or liquid passing through the pipes O O', the adjusting-screw *h* is screwed up so as to stop up partially the hole *f*; and if it is desired to let on only one kind of gas or liquid, the hole *f* in the plug can be stopped up entirely.

My stop-cock is of particular value for oxy-hydrogen-gas-burners, and by means of the adjusting-screw the quantity of oxygen admitted to the burner can be adjusted with the greatest nicety, so as to obtain the best possible effect, according to the quality of the combustible gas. If desired, the adjusting-screw can be in the form of a plain tapering plug held in position by suitable means.

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

The plug B, provided with two transverse holes, *e f*, and with an adjusting-plug, *g*, passing in through its end, in combination with the shell A and channels *c c'* and *d d'*, substantially in the manner herein shown and described.

A. W. WILKINSON.

Witnesses:
W. HAUFF,
E. F. KASTENHUBER.