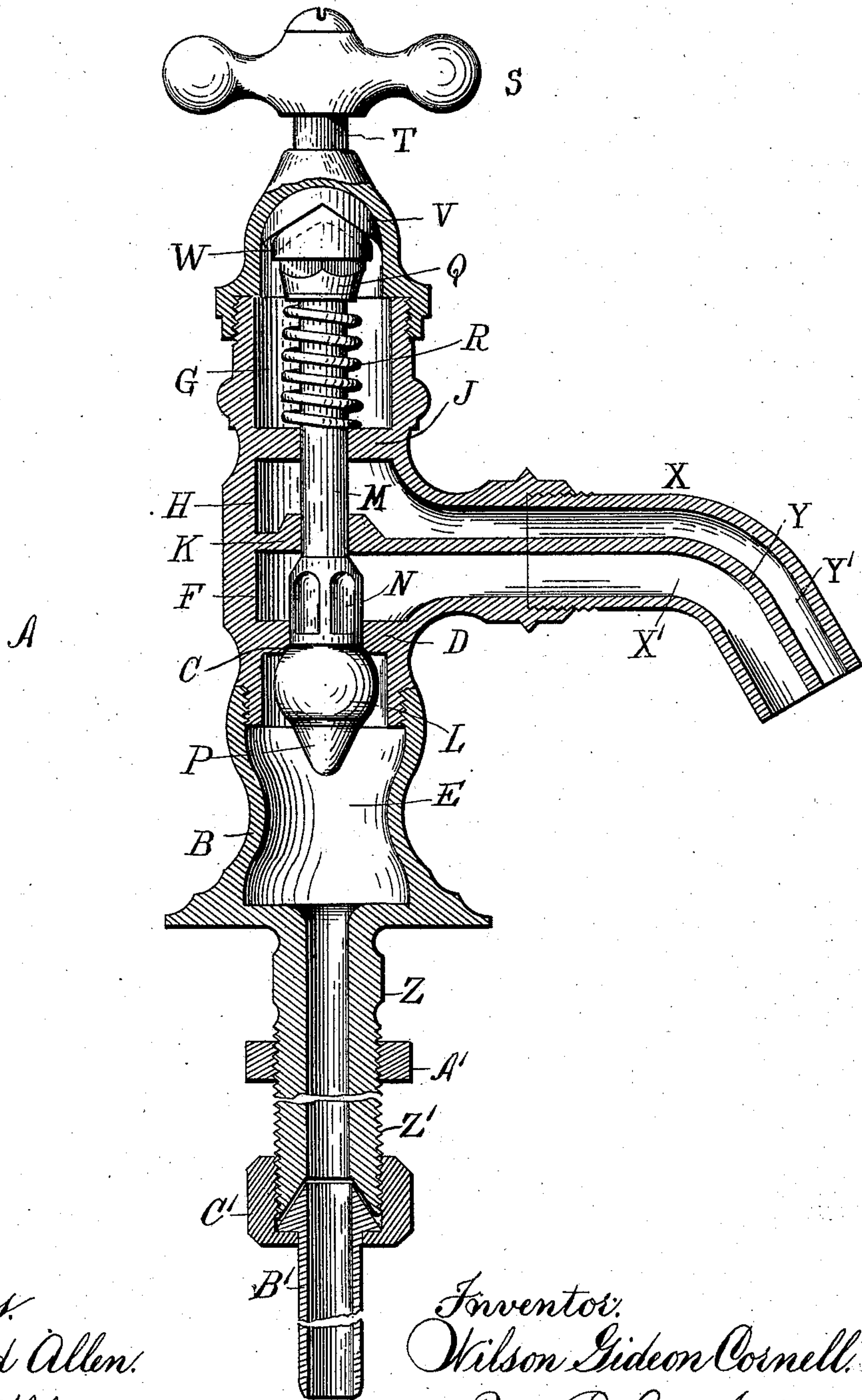


(No Model.)

W. G. CORNELL.
SELF CLOSING BASIN FAUCET.

No. 576,035.

Patented Jan. 26, 1897.



Witnesses.
W. Ellwood Allen.
Walter Allen

Inventor.
Wilson Gideon Cornell.
By Robt. Aiton.
Attorney

UNITED STATES PATENT OFFICE.

WILSON GIDEON CORNELL, OF CHICAGO, ILLINOIS.

SELF-CLOSING BASIN-FAUCET.

SPECIFICATION forming part of Letters Patent No. 576,035, dated January 26, 1897.

Application filed September 23, 1895. Serial No. 563,394. (No model.)

To all whom it may concern:

Be it known that I, WILSON GIDEON CORNELL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Self-Closing Basin-Faucets, which improvement is fully set forth in the following specification and accompanying drawings.

My invention has for its object a construction of faucet which will render unnecessary the use of packing around the valve-stem or handle of the same and at the same time prevent liquid in the faucet from coming in contact with the seating-spring of the valve; and for this purpose it consists of the combination and arrangement of parts hereinafter described.

In the drawing, which represents a vertical central section of a faucet embodying my invention, A designates a faucet consisting of a sectional casing or shell B, having a valve-seat C therein, formed on the partition D, which latter is between the pressure-chamber E and the receiving-chamber F of the faucet.

In the upper part of the shell B is a dry chamber G, and between the latter and the chamber F is a reservoir-chamber H, formed by the partitions J and K and the shell.

L designates a valve formed, preferably, of a rubber ball and secured on a stem M by means of the nut P, said valve-stem closely fitting and working in openings in the partitions J and K and having a head or nut Q on the upper end of the same, against which nut and the partition J a spring R bears to seat said valve.

The valve-stem is enlarged just above the valve and has recesses N in said portion, so as to permit the passage of the water through the opening in the partition D when the valve is off its seat.

The handle S has on the lower end of its stem T a cam or eccentric U, which bears against an inner face or facing V on the cap W of the casing or shell B, so as to cause the stem when turned to lower in said cap and press against the upper end of the valve-stem, thereby removing the valve from its seat.

X designates a spout having a partition Y therein, forming separately outlets X' and Y' to the chambers F and H, said partition being a continuation of the partition K, which is between and separates the said chambers

F and H. The said partition Y extends to the extremity of the spout, so that the discharged water from the outlet X' does not interfere or close the entrance of air into the passage or outlet Y', whereby there is at all times a quantity of air in the chamber H.

At the base of the chamber E is an angular boss or sleeve Z, which is inserted into the marble or other support for the faucet, said boss having a threaded cylindrical part Z' for the lock-nut A', which is tightened against the under side of said support. The tail-piece B' is secured to said boss Z by a universal nut C'.

It will be apparent that any fluid which may enter the chamber H from the chamber F will pass out through the portion X' of the spout X and will not pass up through the partition J into the chamber G, whereby the spring R and the cam D are kept free from contact with the fluid and thereby preserved from rust, thus adding to the duration of said parts.

The invention is applicable to self-closing faucets for kitchen-sinks, slop-sinks, urinals, &c.

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

A self-closing faucet having a sectional casing, one section of which has partitions forming at the ends thereof pressure and dry chambers respectively and intermediate receiving and reservoir chambers, a valve with stem closely fitting in said partitions, a spring in said dry chamber for seating said valve, a cap-section, means having a bearing in said cap-section for operating said stem and valve, and a nozzle on said first-mentioned section with a partition therein forming passages leading from said receiving and said reservoir chambers respectively, said partition extending to the outer end of said nozzle and being continuous of the partition between said receiving and reservoir chambers, substantially as and for the purpose set forth.

In testimony whereof I hereunto subscribe my signature and affix my seal, in the presence of two witnesses, in Chicago, county of Cook, and State of Illinois, the 21st day of September, A. D. 1895.

WILSON GIDEON CORNELL. [L. S.]

Witnesses:

J. M. HILL,
GRACE FERN.