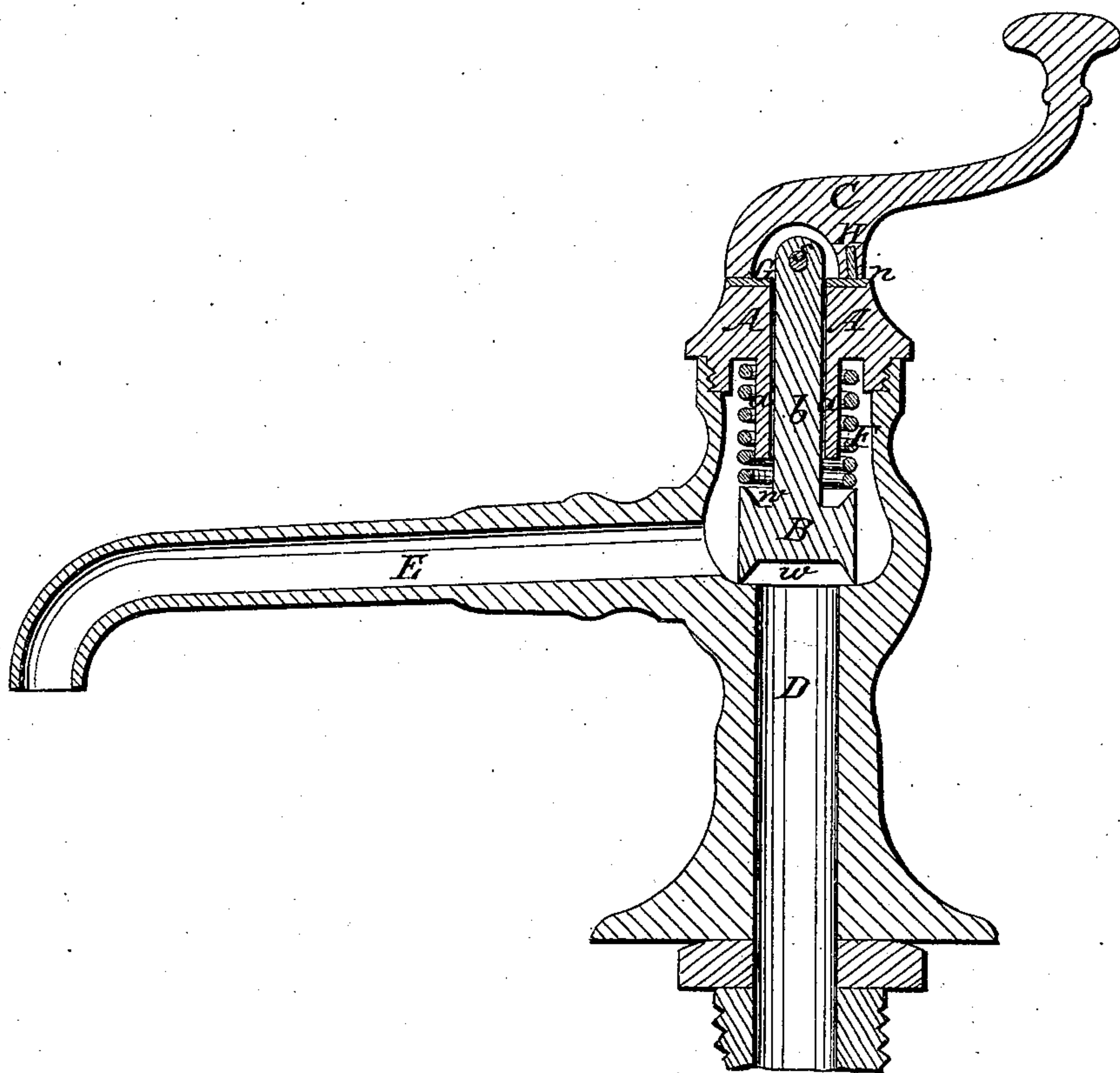


*Patented, Feb, 22, 1870.*



Inventor.  
James M. A. Deru

# United States Patent Office.

JAMES M. A. DEW, OF CHICAGO, ILLINOIS.

Letters Patent No. 100,126, dated February 22, 1870; antedated February 18, 1870.

## IMPROVEMENT IN FAUCETS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAMES M. A. DEW, of the city of Chicago, in the county of Cook, and State of Illinois, have invented certain new and useful Improvements in "Faucets;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making a part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention is intended to be applied to washing-basin faucet, water-cooler faucet, or any other faucets, when a limited supply of liquid is desirable; and

Its nature consists in arranging a faucet in such a manner that when raising the cock or plug and admitting the liquid to flow through the discharge-pipe, said plug would shut off at the same time said liquid from entering into the upper part of the faucet, and escaping out of it through the opening of the cap, in which the stem of the said plug is inserted.

A is the cap and B is the plug, the stem *b* of which is coupled by screw *s* with the base of the faucet-handle C.

The plug being raised or lowered opens or closes the supply-pipe D of the hydrant or other fixture.

On the bottom and on the top the plug is provided with India-rubber washers *w w*.

E is a discharge-pipe, and

F is a coil spring wound around the tube *a*, and between plug B and cap A, for the purpose of keeping the plug down when the faucet is closed.

The improvement principally consists in the extension *a* of the cap A in the shape of a tube, through which the stem *b* of the plug B is passing. The length of the said tube *a* is so regulated that when

the faucet is closed the distance between the lower end of this tube and the top of the plug B is equal to the height to which plug B can be raised by the handle C, the short arm of the lever raising said plug to said required height being between the rear point *n* of the base of the handle C and the center of the coupling-screw *s*. The result of this combination is that when handle C is pressed down and plug B is raised so as to admit the liquid from pipe D to pipe E, the top of said plug butts against the lower end of the tube *a* and shuts off the liquid that would get into the upper part of the faucet from penetrating into tube *a* and flowing out through the cap of the faucet; but after the plug is put down, whatever little liquid will remain in the faucet, it is discharged through the pipe E.

To prevent the rapid wear of metal of which ordinary faucets are generally made, I affix a steel washer, G, on the top of the cap A, and insert a piece of steel, H, inside of the handle C, at the rear point *n* of the base of the same.

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

1. The combination of the tubular extension *a* of the cap A with the sliding valve B having the packing *w*, when arranged to operate as described, so that the opening of the outlet-passage shall close the passage around the stem *b* of the valve, as set forth.

2. The steel washer G, affixed on the cap A, and the piece of steel H, inserted at the rear point *n* into the body of the handle C, substantially as and for the purposes herein set forth and specified.

JAMES M. A. DEW.

Witnesses:

J. B. TURCHIN,  
G. A. MARINER.