

E. SCRANNAGE, Jr.
Faucets.

No. 138,700.

Patented May 6, 1873.

Fig. 1.

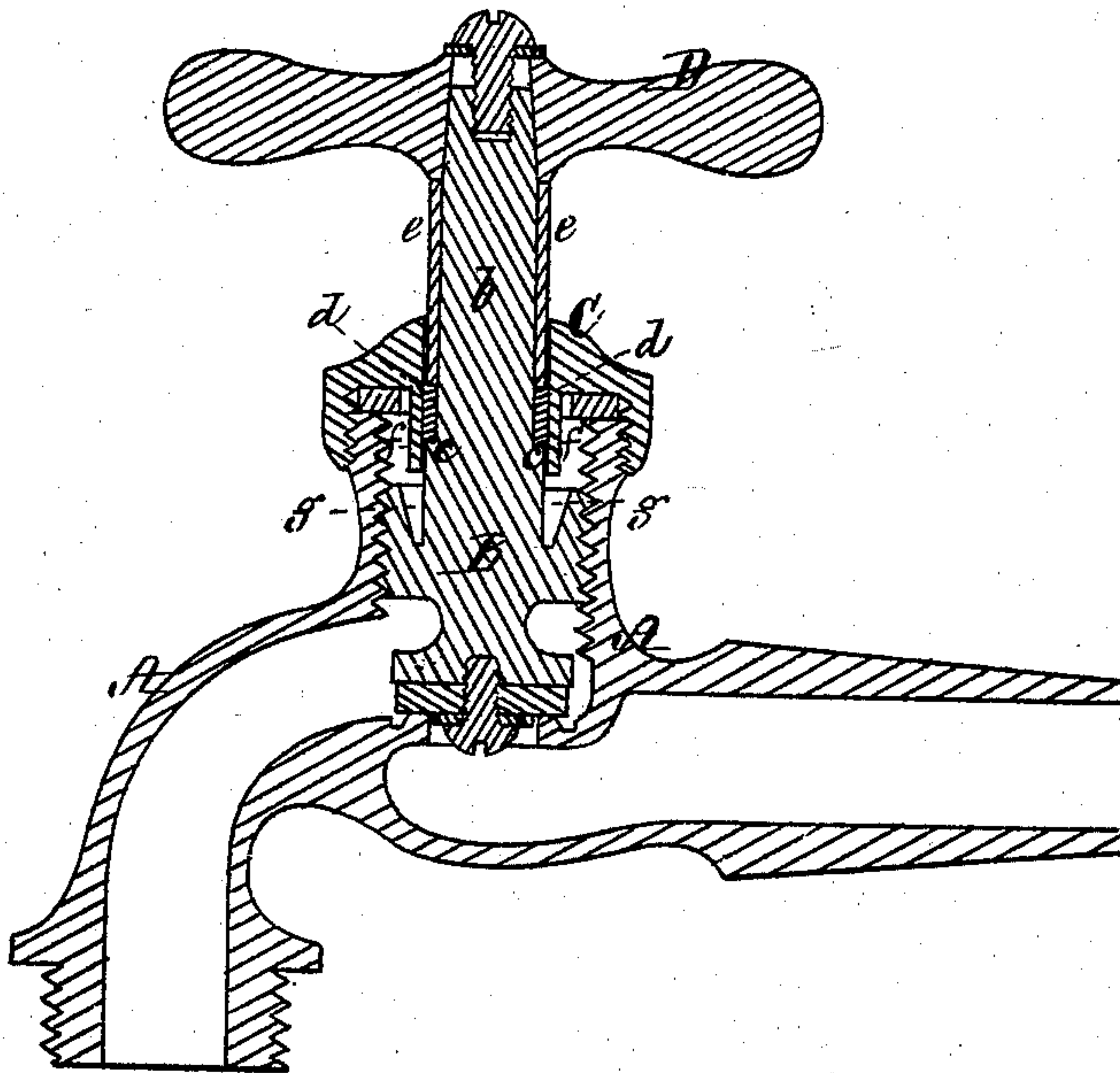


Fig. 2.

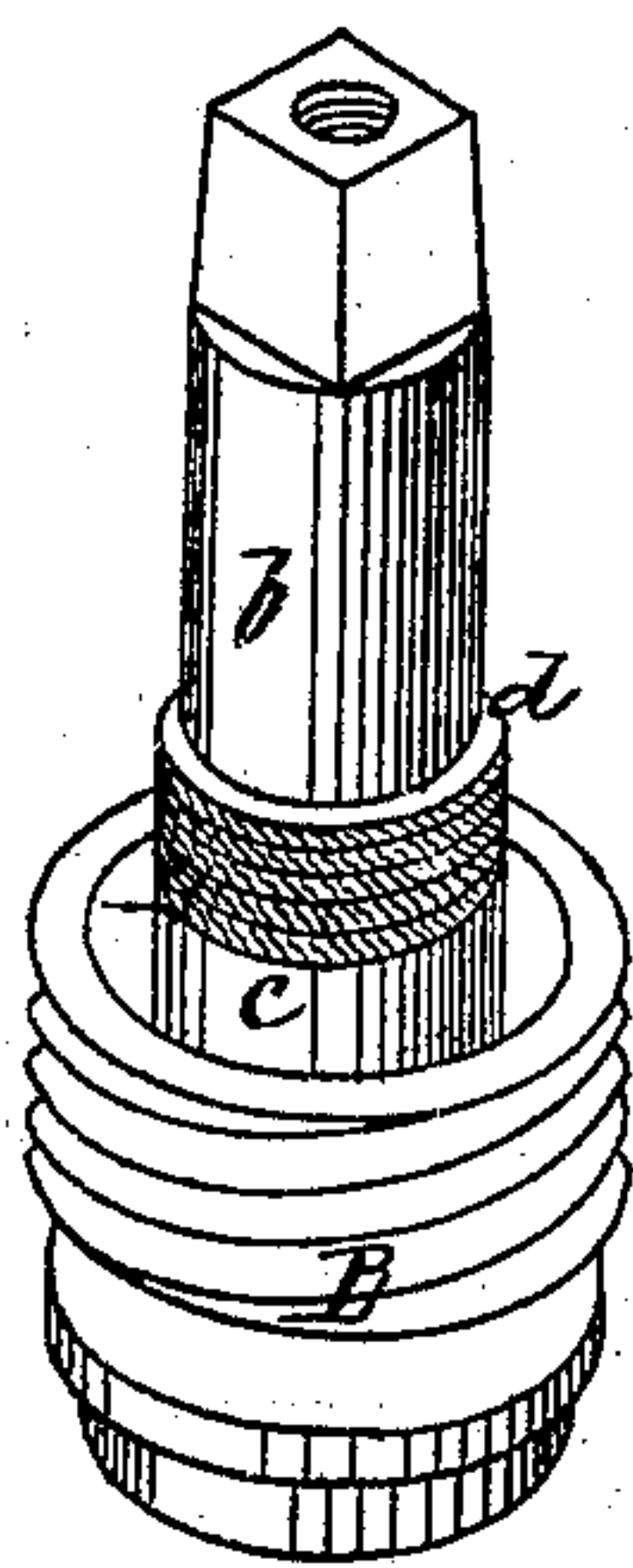
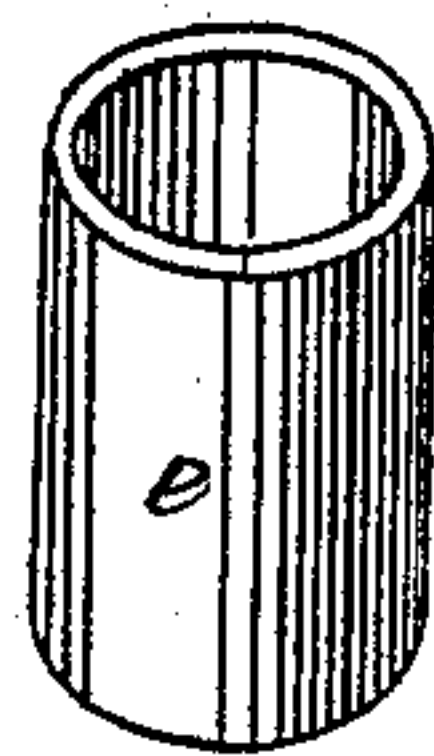


Fig. 3.



Witnesses,
R. E. Stearns
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Inventor,
Edward Scrannage Jr.

UNITED STATES PATENT OFFICE.

EDWARD SCRANNAGE, JR., OF MELROSE, MASSACHUSETTS, ASSIGNOR TO
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IMPROVEMENT IN FAUCETS.

Specification forming part of Letters Patent No. **138,700**, dated May 6, 1873; application filed
February 17, 1873.

To all whom it may concern:

Be it known that I, EDWARD SCRANNAGE, Jr., of Melrose, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Faucets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a longitudinal vertical section through a faucet having my improvement applied thereto; Figs. 2 and 3, details in perspective illustrating my improvement.

This invention relates to a peculiar method of packing the spindle of a faucet so as to insure a tight joint between it and the cap; and consists in confining the packing upon the spindle between a shoulder thereon and a removable sleeve or tube, by which construction the packing is caused to move with the spindle, and is held tightly in place thereon while it may be readily removed when worn out and a new packing substituted therefor.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawing, A represents the body or shell of the faucet, within the vertical portion of which is fitted the screw-plug B, which is provided with a spindle, *b*, which passes up through the screw-cap C, and has secured to its upper end the "crutch" or handle D, by which it is turned.

The construction of the plug B, and the manner in which it is operated, forming no part of my invention, will not here be particularly described.

The lower portion of the spindle *b* is of somewhat larger diameter than the remaining portion, forming a shoulder at *c*, and against this shoulder is placed the packing *d*, which consists of greased twine wound around the spindle or of other suitable material. This packing is confined tightly in place by means of a hollow sleeve or short tube, *e*, Figs. 1 and 3, which fits snugly over the spindle *b*, and is

held down upon the packing by the handle D. As the spindle is raised or lowered, the packing *d* moves therewith, and consequently an extended bearing-surface within the cap C becomes necessary, which is afforded by the flange *f*, extending down from the inside of the cap C, and the necessity of making the top of the cap of great thickness is thus avoided. If desired, however, the flange *f* may be dispensed with, and the top of the cap extended up to the required height to give an inside bearing of sufficient length. The top of the plug B is recessed out at *g* for the reception of the end of the flange *f* when the plug is raised, and when the parts are in their proper position the spindle cannot be raised or lowered sufficiently to expose the packing above or below its bearing within the cap, and it is thus securely confined and prevented from becoming displaced, which renders it extremely durable.

When the packing becomes worn and a new one is required, it is merely necessary to remove the handle D and sleeve *e*, when the new packing can be readily applied by any person of ordinary intelligence, and much of the inconvenience and delay usually occasioned may thus be avoided.

The above-described method of packing the spindle of a faucet or stop-cock is simple, cheap, and effective, and is particularly adapted for hot water, steam, or gas.

Claim.

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

The spindle *b* with its shoulder *c*, packing *d*, and removable sleeve or tube *e*, in combination with the cap C, operating substantially in the manner and for the purpose set forth.

Witness my hand this 25th day of January, A. D. 1873.

EDWARD SCRANNAGE, JR.

In presence of—

P. E. TESCHEMACHER,
W. J. CAMBRIDGE.