H ALEXANDER.

Faucet.

No. 207,931. Patented Sept. 10, 1878.

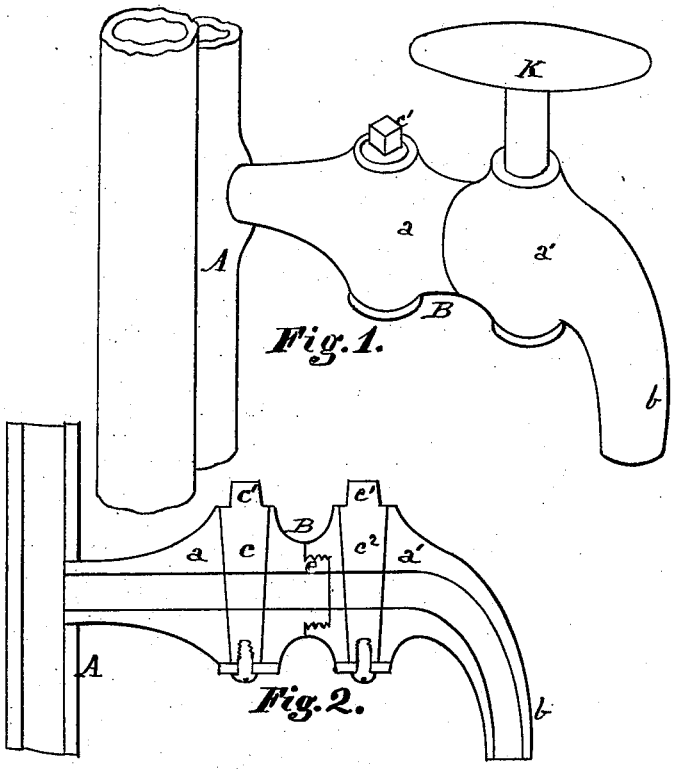

Fig. 1.

Fig. 2.

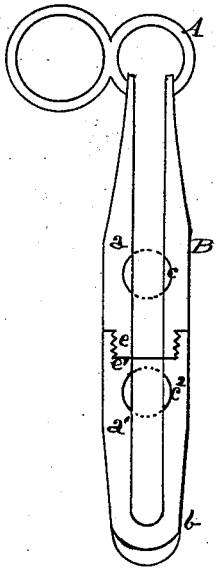

Fig. 3

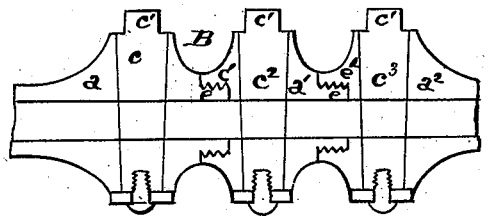

Fig. 4

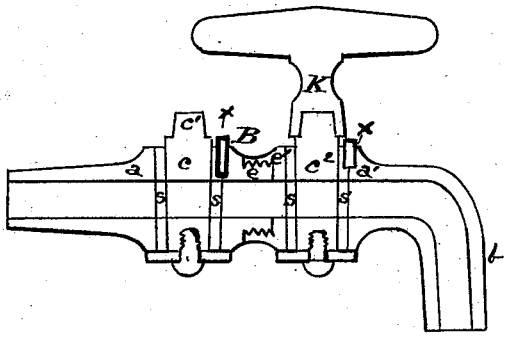

Fig. 5.

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UNITED STATES PATENT OFFICE.

HEZEKIAH ALEXANDER, OF ALBANY, NEW YORK.

IMPROVEMENT IN FAUCETS.

Specification forming part of Letters Patent No. **207,931**, dated September 10, 1878; application filed March 29, 1878.

To all whom it may concern:

Be it known that I, HEZEKIAH ALEXANDER, of the city and county of Albany, State of New York, have invented certain new and useful Improvements in Faucets for Pen-Stocks and Hydrants, which improvements are fully set forth and described in the following specification and accompanying drawings, in which—

Figure 1 represents a perspective view of a faucet embodying the improvements in my invention. Fig. 2 is a sectional elevation of the same. Fig. 3 is a horizontal sectional view. Fig. 4 is a sectional elevation of the same extended to three sections, and Fig. 5 is a sectional elevation illustrating other improvements in this invention.

The object of this invention is to provide faucets with sectional parts, which, when worn, may be readily removed and replaced by new parts of duplicate character without necessitating the removal of the solder uniting the faucet with the pipe and a resoldering of the same, and also enable the flow of the water through the faucet to be cut off when it is required to replace a worn section by a new one.

In the drawings, A is the supply-pipe, and B is the faucet. The said faucet is composed of two or more sections, a a^1 or a, a^1, and a^2, as shown. The section a is so formed at its rear end as to be capable of being made to enter the supply-pipe A through an opening provided in the same, and being secured to the pipe by a soldered wipe-joint or other means as practiced by the trade, and is provided with the plug c, made in any of the forms heretofore employed. The upper end of the said plug is provided with a nut-shaped projection, c^1, of any form that will adapt it for engagement with a key, K, Figs. 1 and 5. The forward end of the section a is provided with a screw-threaded coupling-stem, e, intended to be employed for securing the next section, a^1, to section a, as shown. The sections a^1 and a^2 are each also provided with plugs c^2 c^3, made with the same form as plug c, and provided with a similar nut-form projection, c^1. In the rear end of section a^1, and also of section a^2, if two are employed with section a, is made a screw-threaded recess, e', corresponding with the screw-threaded stem e made with section a, so as to nicely fit the same, and, when screwed together, produce a water-tight joint. A packing-ring may be placed between, if required.

When a third section, a^2, is employed, I make with the front end of section a^1 a screw-threaded stem, e, similar to that made with section a, and adapted to be screwed in a screw-threaded recess, e', made in the third section, a^2, as shown in Fig. 4. With the last section, a^1, if but two sections are employed to form the faucet, I make the spout b, from which the liquid drawn will pour; but when three or more sections are employed I make the said spout with the last section, as shown in Fig. 5.

With the plugs c and c^2, I employ a bush or thimble, s, in which the said plugs fit with a ground joint. The bushes or thimbles are set each in one of the several sections forming the faucet, and each is fixed from turning in its seat by the pin or key x, as shown in Fig. 5. The said thimbles are to be removable, so that when worn by the action of the plugs they may be replaced with new bushes and their plugs.

The faucet is provided with a single key, K, provided with a suitable handle, and may be secured to either of the plugs, as may be required, by a pin or key passing through the socket of the key and the nut-form head c^1 of the plug, as shown in Fig. 5.

It may be readily seen that by this improvement the faucet, when once secured to the supply-pipe, need not be removed for the purpose of repairs, and that when any one of the plugs have been worn so as to become leaky, it, with its bush or thimble, may be removed and replaced with a new one, with its associate new bush. It may also be readily seen that when the plug in any one of the sections a^1 or a^2, if used, is out of order and permits leaking, the leaky section may be disconnected from the others and replaced with a new one. It may also be readily seen that when it is desired to repair the faucet in either the section a^1 or a^2, the flow of the liquid from the supply-pipe may be cut off by simply turning the plug c in the first section, a, a quarter round, when the sections a^1 or a^2, or the bush or thimble

in the same, may be removed and replaced without any inconvenience whatever, and without necessitating a cutting off the flow of the water in the street, or at a point intermediate between the faucet and the street-main.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A faucet consisting of two or more sections detachably fastened together, each being provided with a plug, substantially as and for the purposes set forth.

2. In a faucet, the combination of detachable sections, each having a plug, with detachable thimbles for said plugs, substantially as and for the purpose set forth.

3. In a faucet, the combination of detachable sections and plugs with thimble *s* and locking-pin *x*, applied to one or more of said plugs, substantially as set forth.

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