W. Krull,

Basin Faucet,

No. 49,894. Patented Sep. 12, 1865.

Fig: 1

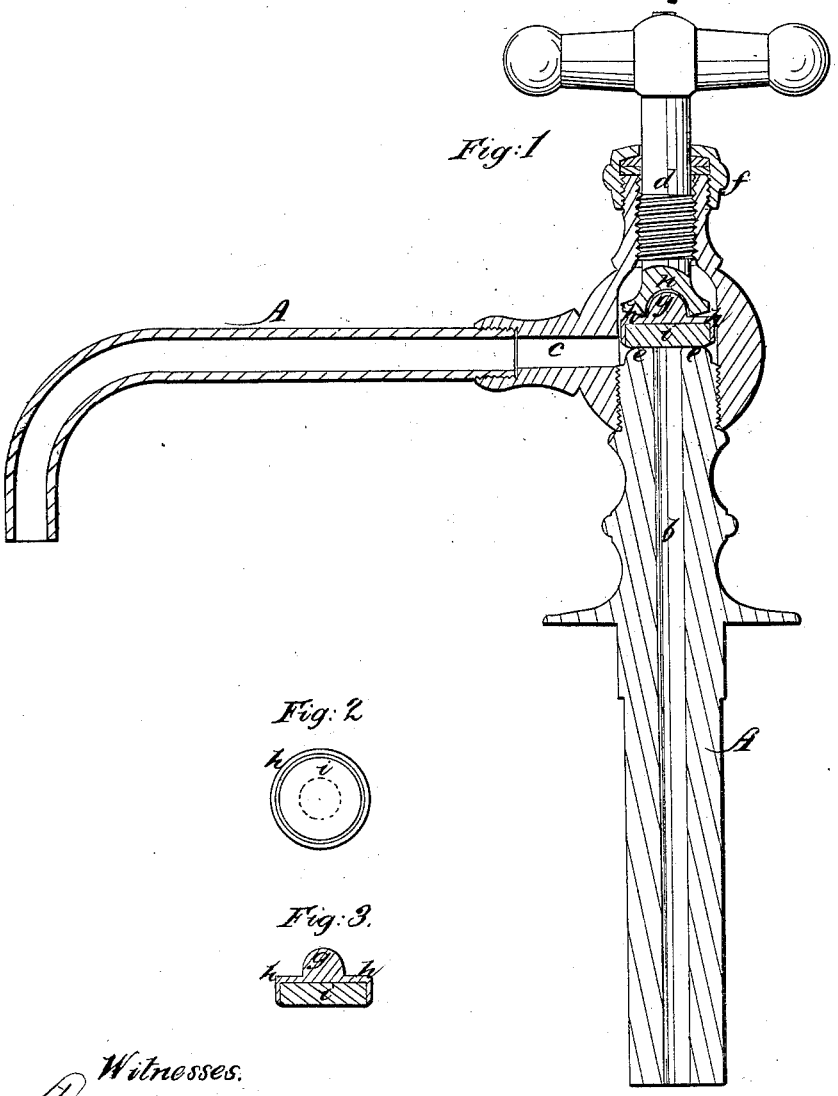

Fig: 2

Fig: 3.

Witnesses.

Geo. W. Reed

F. W. Coombs

Inventor.

W. Krull

UNITED STATES PATENT OFFICE.

WILLIAM KRULL, OF NEW YORK, N. Y.

IMPROVEMENT IN STOP-VALVES FOR FAUCETS.

Specification forming part of Letters Patent No. **49,894**, dated September 12, 1865.

To all whom it may concern:

Be it known that I, WILLIAM KRULL, of the city, county, and State of New York, have invented a new and useful Improvement in Stop-Valves; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of a faucet with my improvement. Fig. 2 is an inverted plan view of the valve. Fig. 3 is a vertical section of the same.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to stop-valves of the puppet kind, which are held against their seats; and it consists in a certain construction of the valve, whereby it is made to readily adapt itself to its seat and close perfectly tight under all circumstances, and is rendered very durable.

A is the shell of the faucet.

b is the inlet-passage, and *c* the outlet-passage.

e is the valve-seat at the top of the inlet-passage.

d is the screw for pressing the valve to its seat, working through a stuffing-box, *f*, and having a central hemispherical cavity, *n*, in its lower end to receive a central teat, *g*, of corresponding form, on the back of the valve.

h is the shell of the valve, made of brass or other hard metal, of the form of a shallow inverted cylindrical box, and having the teat *g* on its back.

i is the filling of soft metal or alloy, cast, soldered, or otherwise firmly secured in the shell and projecting below the edges thereof to form the face of the valve, which may be made flat or of any other suitable form to fit the seat *e*.

The valve being detached from the stem and fitted thereto with the hemispherical teat *g* on its back is permitted to adapt itself with certainty to the seat, and the soft-metal face yields readily to slight inequalities in the seat or to any sand or other hard material that may be accidentally interposed between the valve and seat, and so insures the tight closing of the valve when pressed to its seat by the screw.

This valve may be applied to all kinds of faucets and stop-cocks. The soft-metal face adapts itself to inequalities in the seat and yields to any hard material—such as sand—which gets between it and the seat, as well as india-rubber, than which it is more durable, and it never requires regrinding, like a hard metallic face.

The filling *i* may be composed of pewter or other soft metal or alloy.

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

The stop-valve, composed of a shell, *h*, of hard metal, having on its back a hemispherical teat, *g*, fitted to a corresponding cavity, *n*, in the screw or spindle *g*, and a filling, *i*, of soft metal, part of which forms the face, substantially as herein specified.

W. KRULL.

Witnesses:
J. W. COOMBS,
GEO. W. REED.