

(No Model.)

A. HALLOWELL.

HYDRAULIC COCK.

No. 304,316.

Patented Sept. 2, 1884.

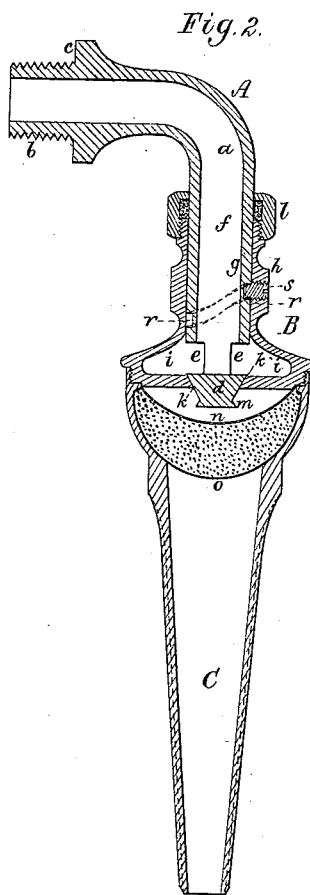
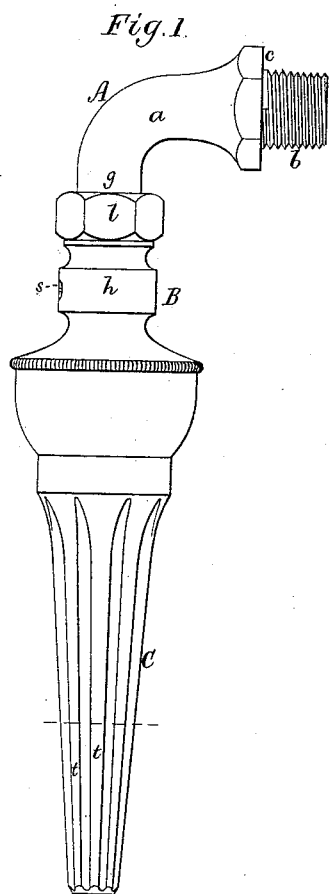


Fig. 3.



Witnesses.
S. N. Piper
E. B. Pratt.

Inventor.
Albert Hallowell.
by R. W. May atty.

UNITED STATES PATENT OFFICE.

ALBERT HALLOWELL, OF LOWELL, MASSACHUSETTS.

HYDRAULIC COCK.

SPECIFICATION forming part of Letters Patent No. 304,316, dated September 2, 1884.

Application filed January 7, 1884. (No model.)

To all whom it may concern:

Be it known that I, ALBERT HALLOWELL, of Lowell, in the county of Middlesex, of the Commonwealth of Massachusetts, have invented a new and useful Improvement in Hydraulic Cocks; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a side elevation, and Fig. 2 a longitudinal section, of a cock containing my invention, the nature of which is defined in the claim hereinafter presented. Fig. 3 is a transverse section of the fluted eduction-handle.

In this cock the induct is tubular and carries a valve and the valve-case furnished with an eduction-handle, and a valve-seat revolves on the induct, and they are provided with means of moving the valve on or off its seat when the case is turned on the induct.

In the drawings, A denotes the tubular induct, which I usually form with a bend, as shown at *a*, and provide it at its upper end with a coupling-screw, *b*, and shoulder *c*, as represented. At its lower end the tubular induct has a valve, *d*, and above such one or more discharging-openings, *e*, such opening or openings leading laterally out of the induct from its bore *f*. The portion *g* of the induct furnished with the valve is cylindrical, and arranged within the neck *h* of the valve-case B, chambered in its lower part, as shown at *i*, and having leading out of the bottom of such chamber an opening, *k*, which, as shown, is conical, and serves as the seat of the conical valve *d*. In the neck *h* is a stuffing-box, *l*, that encompasses the induct A, and forms about such a water-tight joint. Furthermore, there is to the valve a deflector, *m*, which, as shown, is conical or a conic frustum, it being for the purpose of deflecting laterally a stream of water on its discharge through the opening of the valve-seat. From the case B there is projected downward a tapering and hollow eduction-handle, C, in and extending across the upper part of which I usually have one or more woven-wire or other proper strainers, *n*

o, and in case of there being two or more of such the space or spaces between them may be charged or filled with a suitable filtering medium or substance—such as charcoal or fine sand. In the external surface of the part *g* of the tubular induct there is a spiral groove, *r*, into which there extends a stud or screw, *s*, which is fixed or screwed into the neck *h*.

On taking hold of the eduction-handle C and revolving it in one direction the case B will turn on the induct A, and at the same time will be moved downward thereon, so as to open the valve or move it off its seat. Under these circumstances, should water or a liquid under pressure be within the induct and the chamber *i*, such water or liquid will be discharged through the opening of the valve-seat and into and through the tubular handle C, in which such water will be strained or filtered, in case of there being within the handle C a strainer or filter, as described. The handle C is tapering, as shown, and its outer surface is fluted or grooved lengthwise of it, as represented at *t*, such being to enable the handle to be inserted within the neck of a bottle and air to escape from such bottle through the flutings while the bottle may be in the act of receiving water or liquid from the handle.

From the above it will be seen that the handle not only serves the purpose of a handle to revolve the valve-case, but as an educt thereto, and also as a means of supporting within it a strainer or filtering device.

I claim—

The tubular induct provided with a spiral groove, openings, a valve, and a deflector to the valve, as described, in combination with the necked valve-case adapted to receive and turn on the said induct, and having the open chamber and valve-seat thereto, and also having a stud or screw to enter the spiral groove, all being substantially as represented.

ALBERT HALLOWELL.

Witnesses:

R. H. EDDY,
E. B. PRATT.