

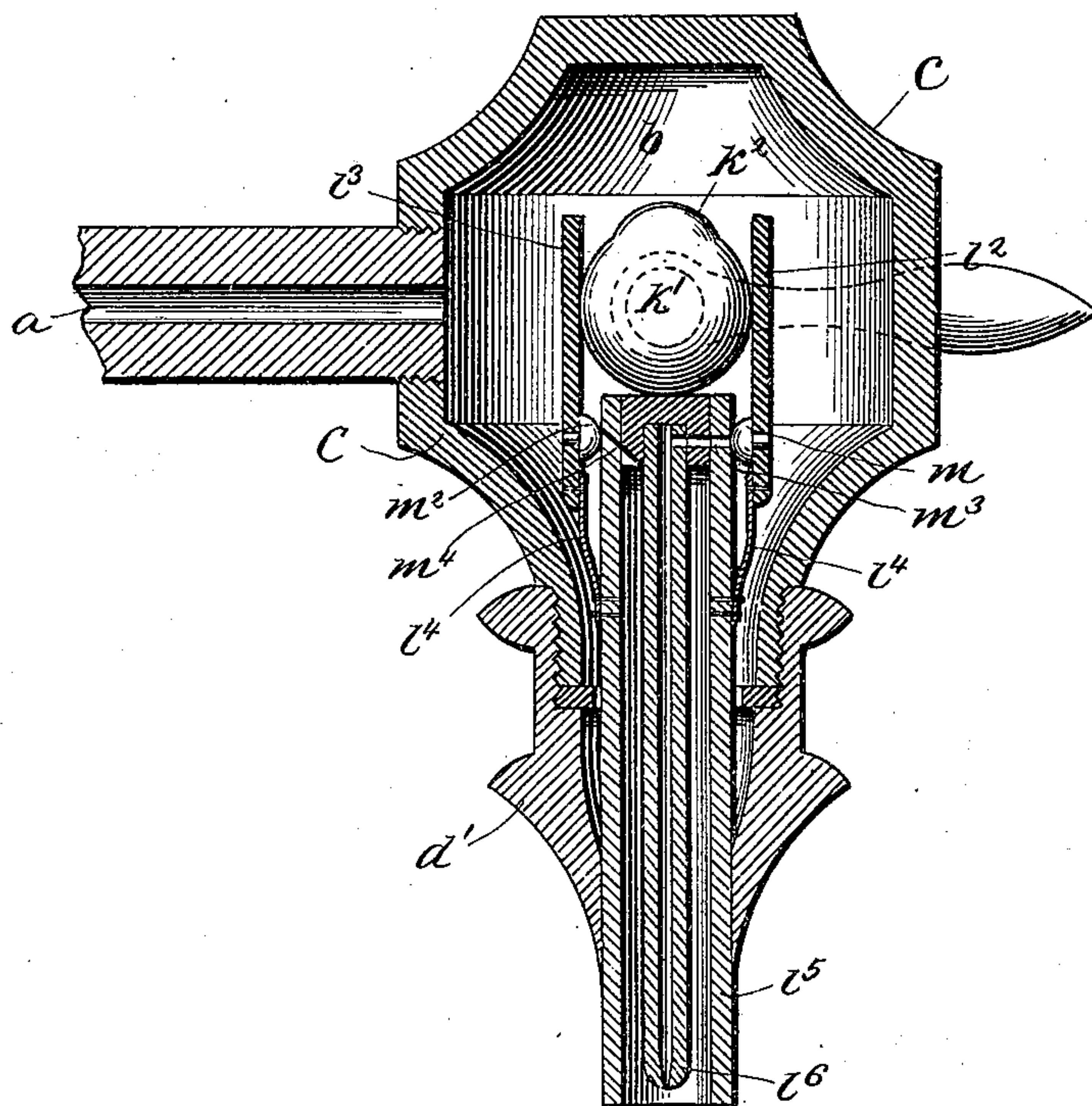
No. 617,790.

Patented Jan. 17, 1899.

H. L. WILLARD.
DRAFT TUBE FOR SODA FOUNTAINS.

(Application filed Nov. 30, 1896.)

(No Model.)



Witnesses:
E. A. Allen.
J. A. Deichert.

Inventor:
Horatio L. Willard
by his attorneys,
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UNITED STATES PATENT OFFICE.

HORATIO L. WILLARD, OF SOMERVILLE, MASSACHUSETTS.

DRAFT-TUBE FOR SODA-FOUNTAINS.

SPECIFICATION forming part of Letters Patent No. 617,790, dated January 17, 1899.

Application filed November 30, 1896. Serial No. 613,855; (No model.)

To all whom it may concern:

Be it known that I, HORATIO L. WILLARD, a citizen of the United States, residing at Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Draft-Tubes for Soda-Fountains or other Like Apparatus, of which the following is a specification, reference being had therein to the accompanying drawing, which is a vertical central section of a draft-tube embodying my invention.

My invention relates to that class of draft-tubes through which a coarse or fine stream of fluid under pressure is dispensed.

The object of my invention is to produce a draft-tube of economical construction; and my invention consists in the constructional features pointed out in the claim.

In the drawing, *a* is the main supply-pipe, which discharges in chamber *b* in the casting *c*, having in this instance an ornamental chambered extension *d'*. A coarse-stream tube *l*⁵ is mounted in the extension *d'* and extends well up into chamber *b*. Its upper end is closed by a suitable plug, in which the fine-stream tube *l*⁶ is mounted. This tube is within the coarse-stream tube *l*⁵ and has an opening at its lower end. The upper end of tube *l*⁶ is formed with a valve-controlled port *m*⁴, controlled by the valve *m*², the port leading from chamber *b* into the space between the inner wall of tube *l*⁵ and the outer wall of tube *l*⁶. A port *m*³ leads from chamber *b* into tube *l*⁶, and a valve *m* controls this port. The valves *m* and *m*² are mounted on plates *l*³ and *l*², each of which is attached by

a spring *l*⁴ to any suitable support—such, for example, as is afforded in this instance by the upper part of tube *l*⁶. The valves *m* and *m*² project from the plates *l*² and *l*³, respectively, toward and against the outer ends of the ports *m*³ and *m*⁴, respectively, and are held in place to close the ports by the springs *l*⁴. The plates extend beyond the inner end of the tube *l*⁶, and a cam *k'*, having a lobe *k*², is mounted between the plates. This cam is carried by the usual handle, and by rocking the cam so as to bring lobe *k*² against plate *l*² valve *m* is pushed away from the port *m*³ and a fine stream dispensed. By rocking cam *k'* so as to bring lobe *k*² against plate *l*³ valve *m*² is pushed away from port *m*⁴, so that a coarse stream is dispensed.

What I claim is—

In a draft-tube, the combination of a coarse-stream tube and a fine-stream tube with a chambered casing having an inlet-port; ports leading from said coarse-stream tube, and fine-stream tube to the said chambered casing; the valves *m* and *m*² covering said ports, the springs *l*⁴, *l*⁴ attached to the arms *l*² and *l*³ to which said valves are secured and the cam *k'* provided with the lobe *k*², substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 28th day of November, A. D. 1896.

HORATIO L. WILLARD.

Witnesses:

EDWARD S. BEACH,
E. A. ALLEN.