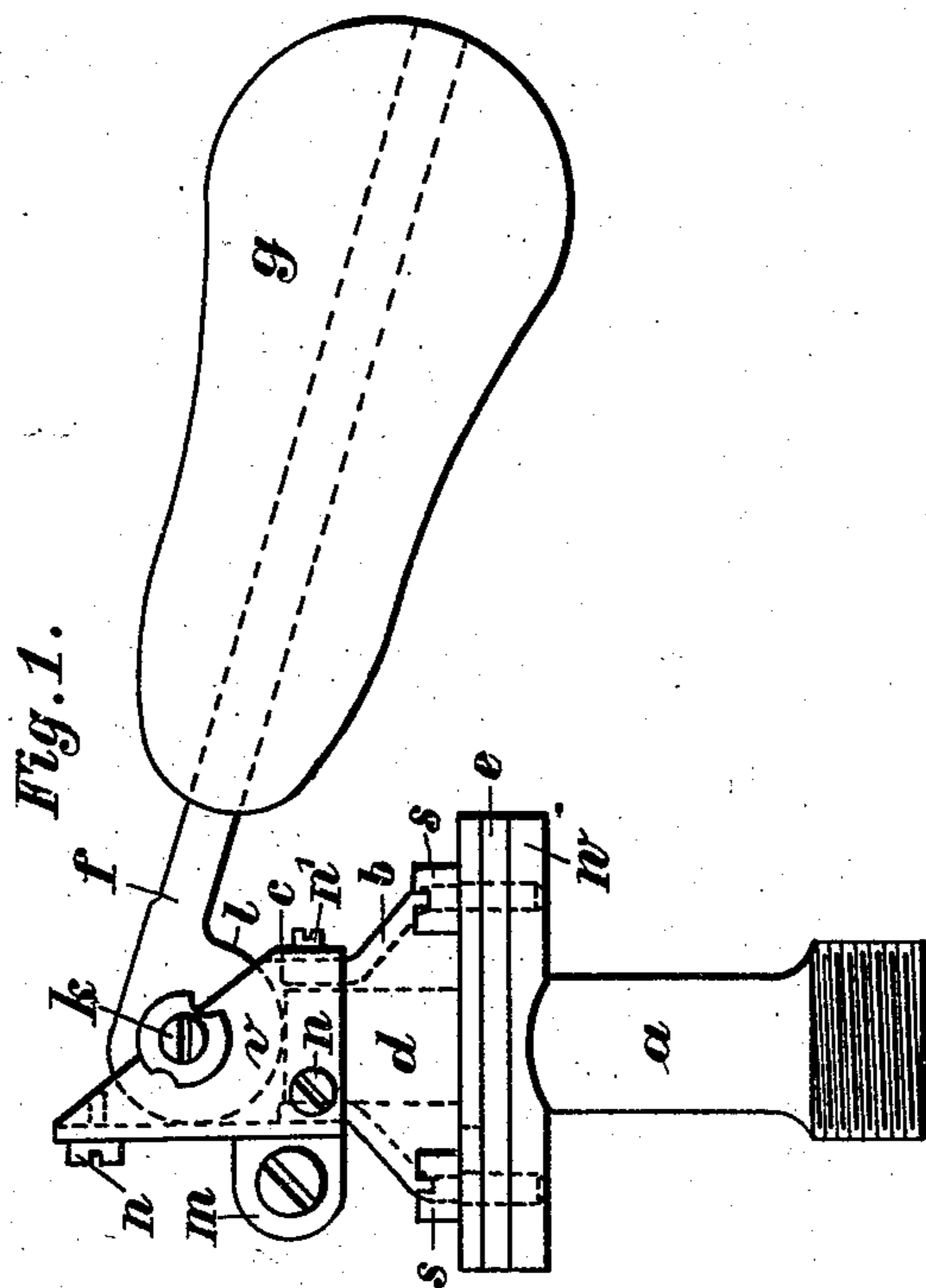
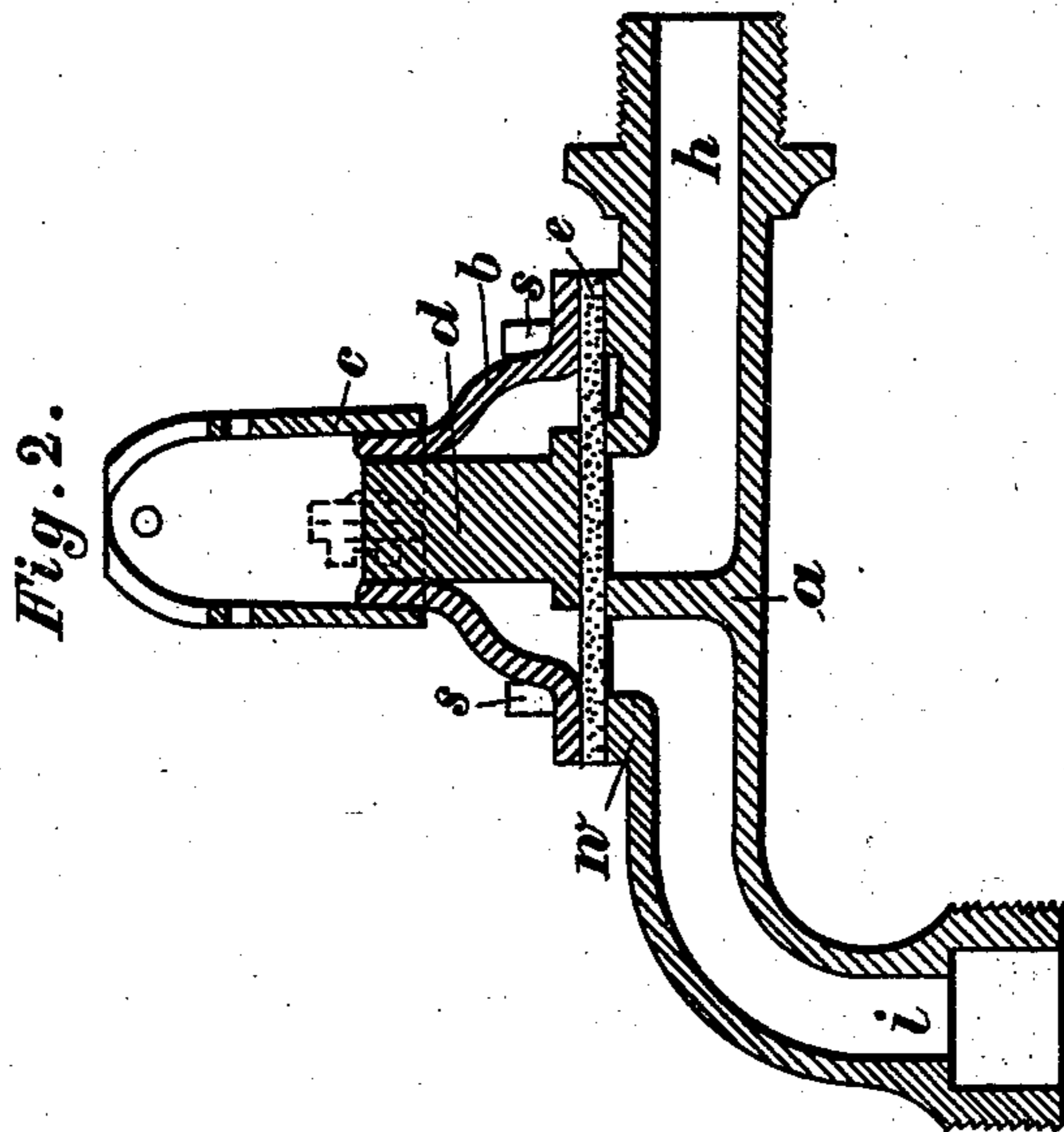


(No Model.)

J. H. LANDGREBE.
TAP FOR WATER OR OTHER LIQUIDS.

No. 543,254.

Patented July 23, 1895.



Witness
Paul Fischer
Hans Bauerhau.

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UNITED STATES PATENT OFFICE.

JOHANN HEINRICH LANDGREBE, OF CASSEL, GERMANY.

TAP FOR WATER OR OTHER LIQUIDS.

SPECIFICATION forming part of Letters Patent No. 543,254, dated July 23, 1895.

Application filed October 14, 1893. Serial No. 488,201. (No model.) Patented in England July 4, 1893, No. 13,034.

To all whom it may concern:

Be it known that I, JOHANN HEINRICH LANDGREBE, of Cassel, in the German Empire, have invented a new and useful Improved Tap for Water or other Liquids, (for which I have obtained Letters Patent in Great Britain No. 13,034, dated July 4, 1893,) of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to an improved tap for water and other liquids that will close automatically to stop the supply of liquid.

Figure 1 shows a front elevation of the tap, while Fig. 2 is a longitudinal section.

15 In carrying out my invention I provide a tap-body of the ordinary kind with an inlet *h* and outlet *i* for the liquid at each end. I provide the tap with screw-threads or like devices by means of which the tap can be attached to a service-main and distributing-pipe respectively. Near the middle of the tap is a seating *a* and a seating *w*, the former constituting the valve-seat proper, while the latter serves as a means for supporting a flexible valve *e* and a bell-shaped cover *b*, which is attached to the seat by screws *s*. Situated in the interior of the casing *b* is a plunger *d*, which is free to rise and fall, as will be presently described. Attached to the casing *b* by screws *n* and clamps *m* is a bracket *c*, carrying a spindle *k*, on which is pivoted a lever *f*. At one end the lever is provided with a weighted handle *g*, while at the other is formed a cam-surface *v*.

35 In operation the lever *f*, with its weighted handle *g*, is lifted, and, turning round, the pin *k* brings a portion of the cam-surface *v* which is nearer to the latter, opposite to the plunger *d*. The plunger, owing to the pressure of the water on the under side of the flexible disk *e*, is forced upward, so that a passage is left for the water. A set-screw *n'* is used to reg-

ulate the height to which the lever *f* can be lifted. In closing the tap it is only necessary to tilt the lever *f* or let go of the handle, when the weight *g* will descend and cause the cam-surface *v* to press on the plunger *d*, and so force the flexible washer *e* to its seat.

It will be understood that the details of the tap may be varied without departing from the essential features of my invention. For instance, the bracket *c* may be joined in one piece with the bell-shaped cover *b*, while the lever *f* may be arranged in different positions, as found most convenient.

What I claim, and desire to secure by Letters Patent of the United States, is—

A tap for water or other liquids comprising in its construction an inlet and outlet port each having threaded ends, a valve-seat *a* located about midway between said ports, a flexible valve *e* screwed to the tap and adapted to lie flat upon the seat, a bell-shaped casing *b* screwed to the tap above the flexible valve, a plunger *d*, inclosed by the casing and operating upon the valve; a bracket *c* secured to the upper portion of the casing by means of clamps *m* and having a portion thereof cut away, at an angle, a lever *f*, journaled in said bracket and provided at its pivoted end with a cam face adapted to act upon the plunger, a weighted handle mounted upon the opposite end of said lever, and an adjustable set screw *n'* tapped in the upper portion of said bracket and operating to limit the vertical movement of said lever and plunger, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

JOHANN HEINRICH LANDGREBE.

Witnesses:

AUG. HAGENA,
FLORA KATHE.