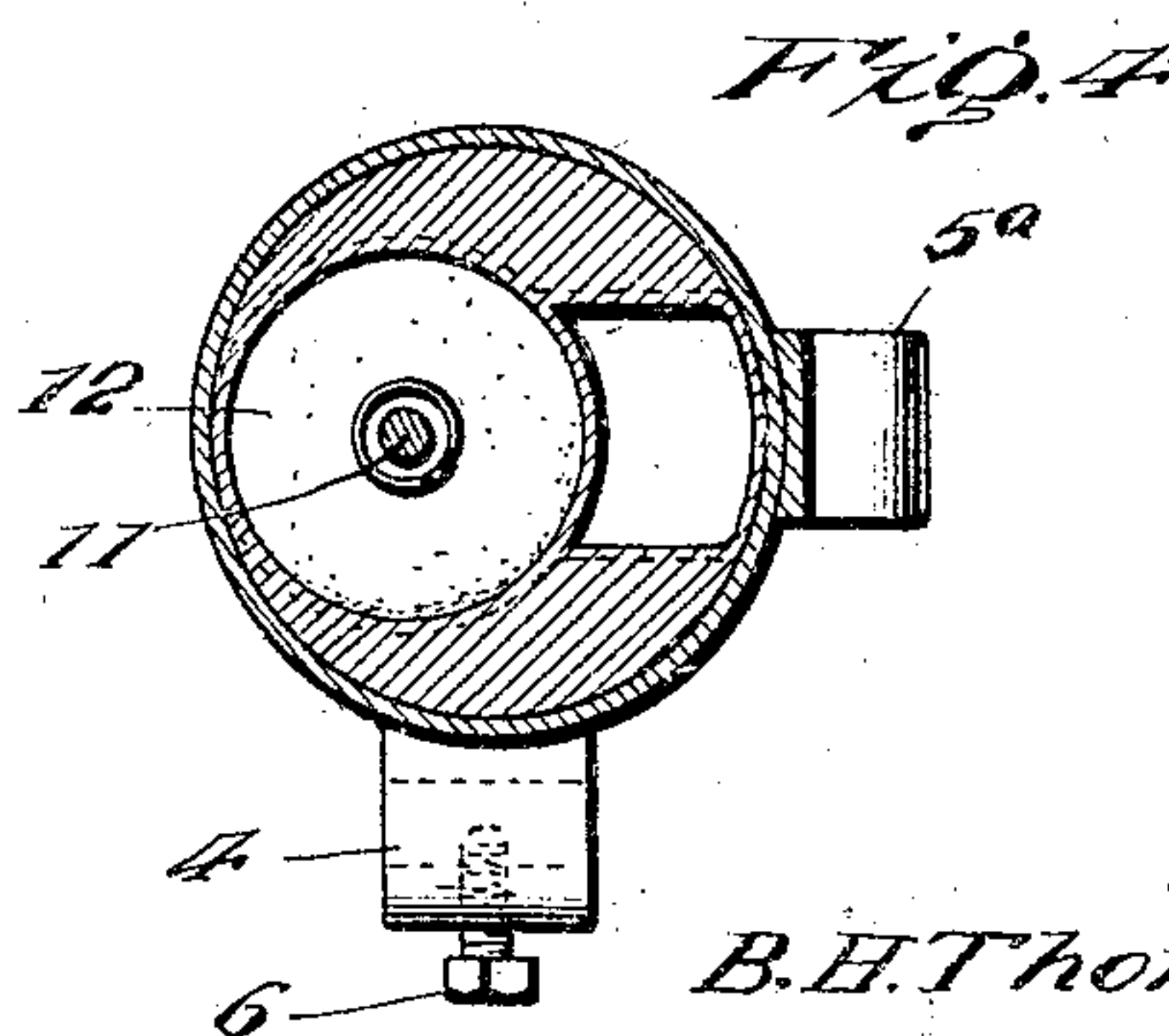
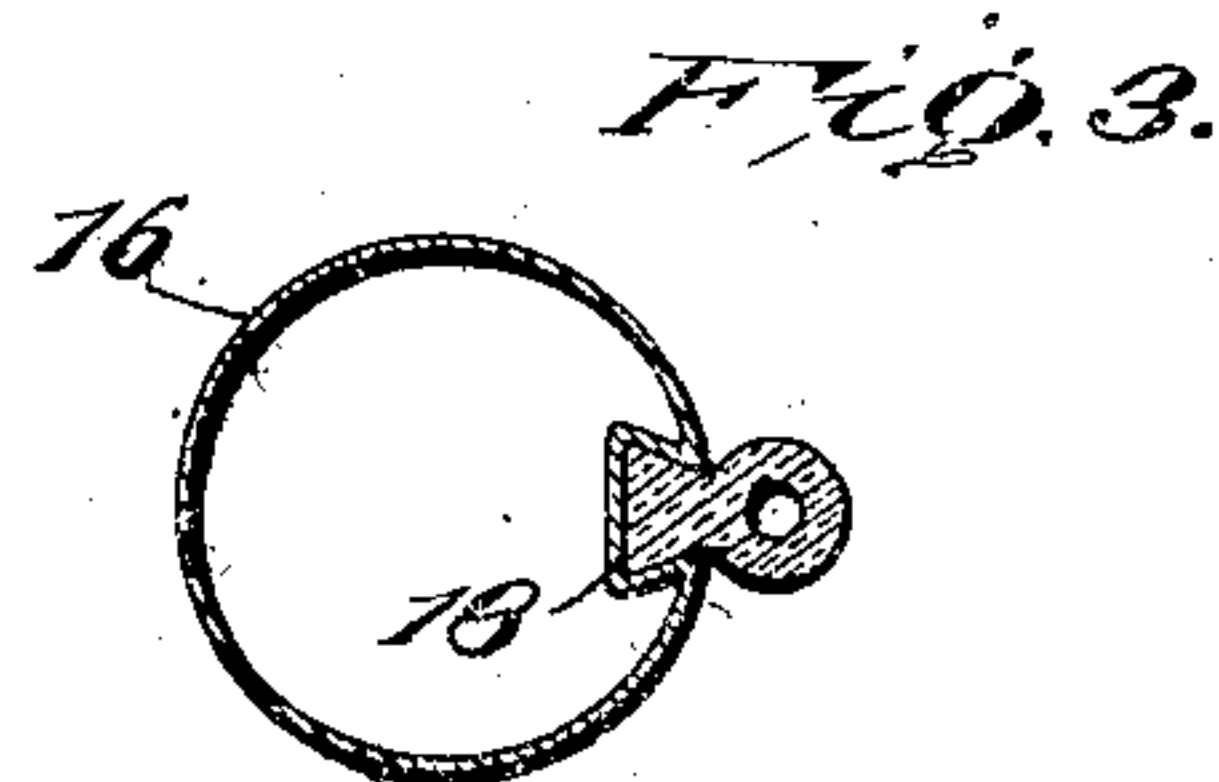
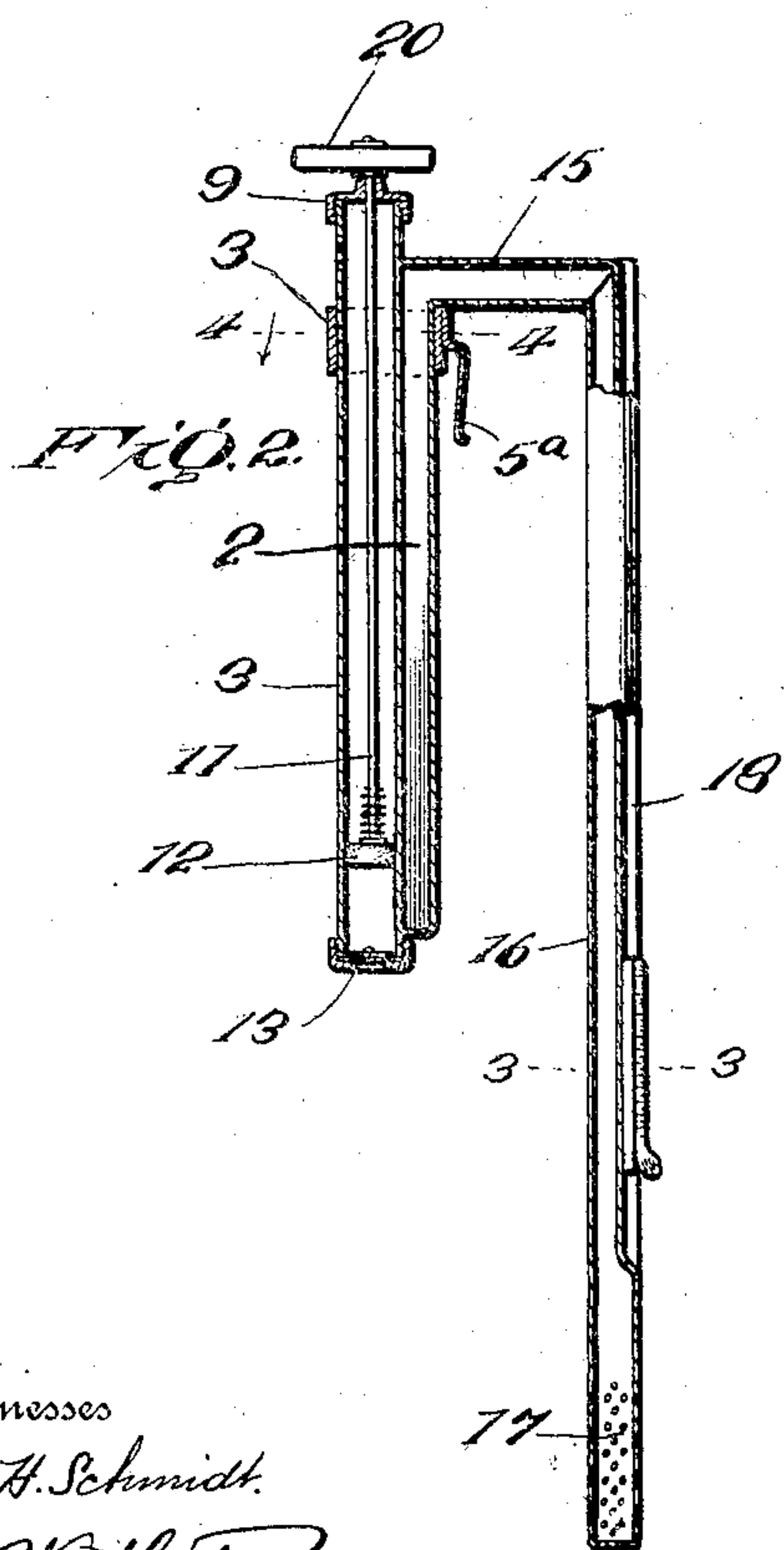
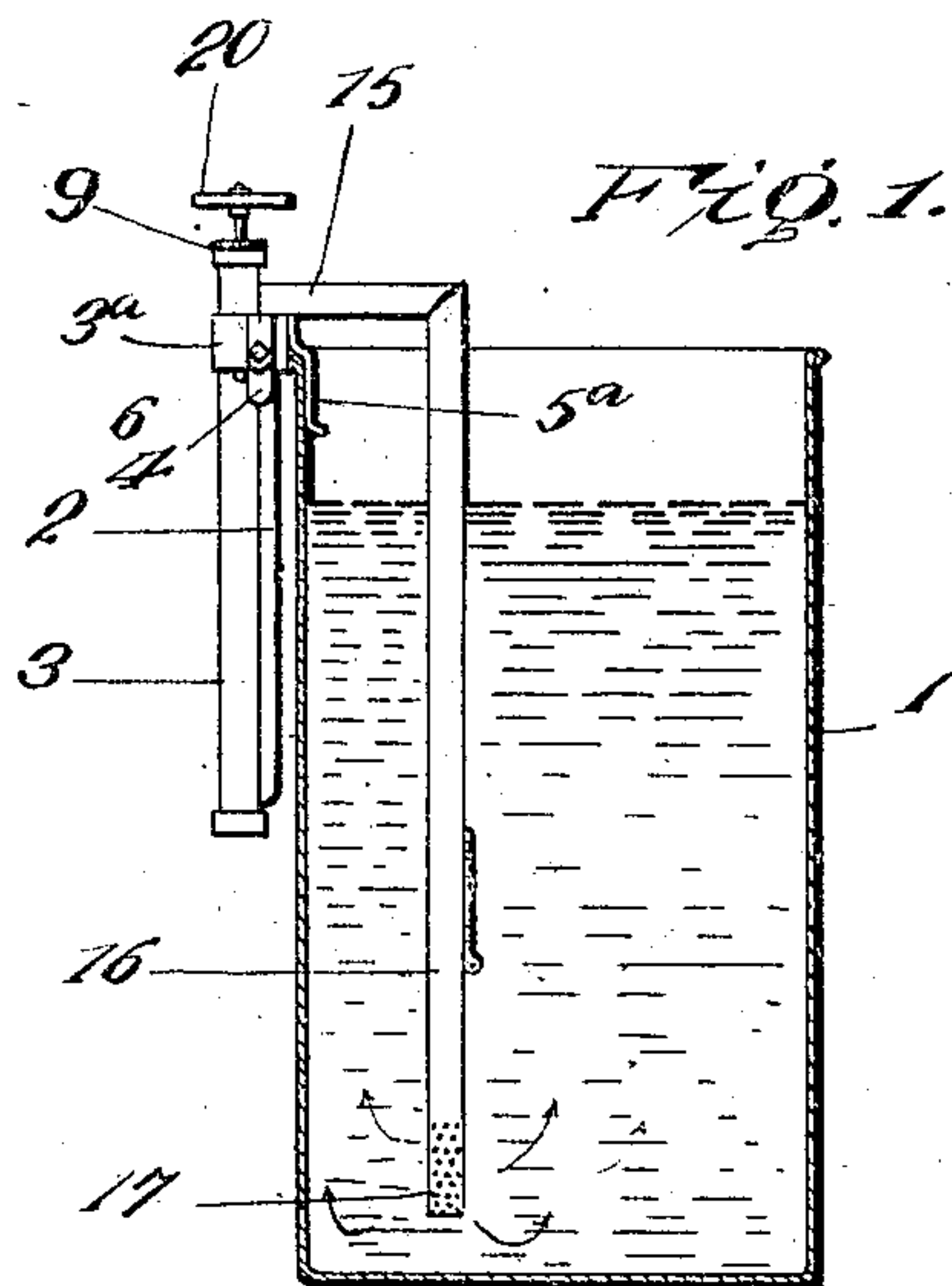


No. 810,892.

PATENTED JAN. 23, 1906.

B. H. THOMAS.  
MILK AERATOR.

APPLICATION FILED JUNE 6, 1905.



Witnesses  
Louis H. Schmidt.  
H. Kitty Trison

By

Inventor  
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# UNITED STATES PATENT OFFICE.

BERT H. THOMAS, OF MILLERS STATION, PENNSYLVANIA, ASSIGNOR OF  
ONE-HALF TO W. K. ANDREWS, OF MILLERS STATION, PENNSYLVANIA.

## MILK-AERATOR.

No. 810,892.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed June 6, 1905. Serial No. 264,028.

*To all whom it may concern:*

Be it known that I, BERT H. THOMAS, a citizen of the United States, residing at Millers Station, in the county of Crawford and State of Pennsylvania, have invented a new and useful Milk-Aerator; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to an aerator, and has for its object to provide a device of this character which is exceedingly simple, durable, and inexpensive and which may be readily attached or detached from a milk-can for the purpose of forcing air therein for the purpose of purifying the milk.

A further object is to provide a device which has means for connecting a thermometer with the pipe or tube extending into the milk.

With these and other objects in view the invention consists in the construction and novel arrangement of parts hereinafter described and shown, and particularly pointed out in the appended claims.

In the drawings forming part of this specification, and in which like numerals of reference designate corresponding parts, Figure 1 is a sectional view through a milk-can, showing my device attached thereto by means of a spring. Fig. 2 is a vertical sectional view. Fig. 3 is a detail sectional view on the line 3-3 of Fig. 2. Fig. 4 is a plan view of the revolving-collar-carrying means for attaching the device to milk-cans.

Referring to the drawings, 1 designates an ordinary milk-can having a pair of cylinders attached thereto by means of a collar 3<sup>a</sup>, adapted to rotate on said cylinders and having an arm 4, which has a downwardly-projecting portion 5, which is provided with a suitable aperture for the reception of a thumb-screw 6, which is designed to engage the side of the milk-can for the purpose of securing the device rigidly to said milk-can. The collar 3<sup>a</sup>, which, as aforesaid, is adapted to rotate on said cylinders, is also provided with a

resilient arm 5<sup>a</sup>, which is adapted to engage and disengage the milk-can when the work of operating on a number of cans rapidly is desired, as will be readily understood. The arm 5<sup>a</sup> holds the device in engagement with the milk-can by spring-pressure.

The cylinder 3 is provided with a screw-threaded top, as at 9, and is adapted to receive a plunger-stem 11, provided with a piston 12, which may be provided with an ordinary check-valve, if desired, for the purpose of allowing a great quantity of air to enter the piston as the same travels upward.

In the lower part of the cylinder 3, upon the circumference of the same, is a check-valve 13, which admits air as the piston travels upward and closes as the same is pressed downward, in which case air will pass through a suitable opening from cylinder 3 into cylinder 2, thence upward and into a laterally-projecting-pipe 15, and thence downward through a vertically-disposed tube 16, which projects into the milk-can, as clearly shown. The lower end of the pipe or tube 16 is provided with perforations or apertures 17, which permit the air to spray out at or near the bottom of the milk, which thereby purifies the milk.

The vertical tube 16 is provided with a dovetail groove 18, which is designed as a suitable way in which a thermometer can slide up or down, according to the desire of the operator. The plunger-stem is provided with a suitable handle 20.

I desire it to be understood that changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit of my invention or sacrificing any of the advantages thereof.

What I claim is—

1. In a device of the class described, the combination of a pair of tubes formed integral with each other, a collar adapted to rotate on said tubes, said collar being provided with means for attaching the device to a milk-can, one of said tubes having a lateral projection connected with a vertically-disposed tube, and means for forcing air through said tubes, substantially as described.

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2. In a device of the class described, the combination of a pair of tubes formed integral with each other, one of said tubes having a lateral projection connecting with a vertically-disposed tube, said vertically-disposed tube being provided with a groove or way adapted to adjustably receive a convenient form of thermometer, said vertical

tube being also provided at its lower end with apertures, substantially as described. 10

In testimony whereof I have hereto affixed my signature in the presence of two witnesses.

BERT H. THOMAS.

Witnesses:

CLARK MICKLE,

PERRY H. DE LAND.