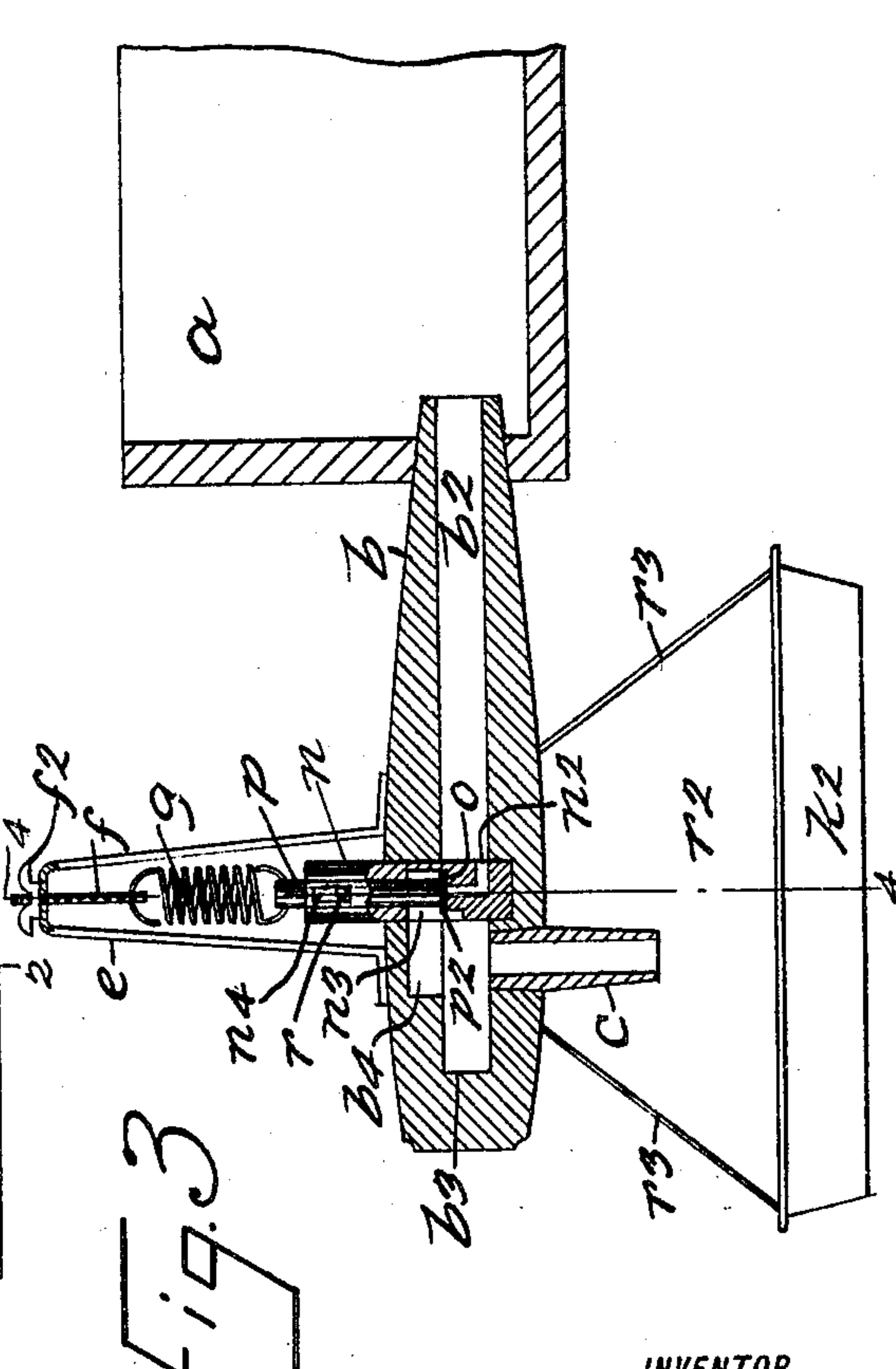
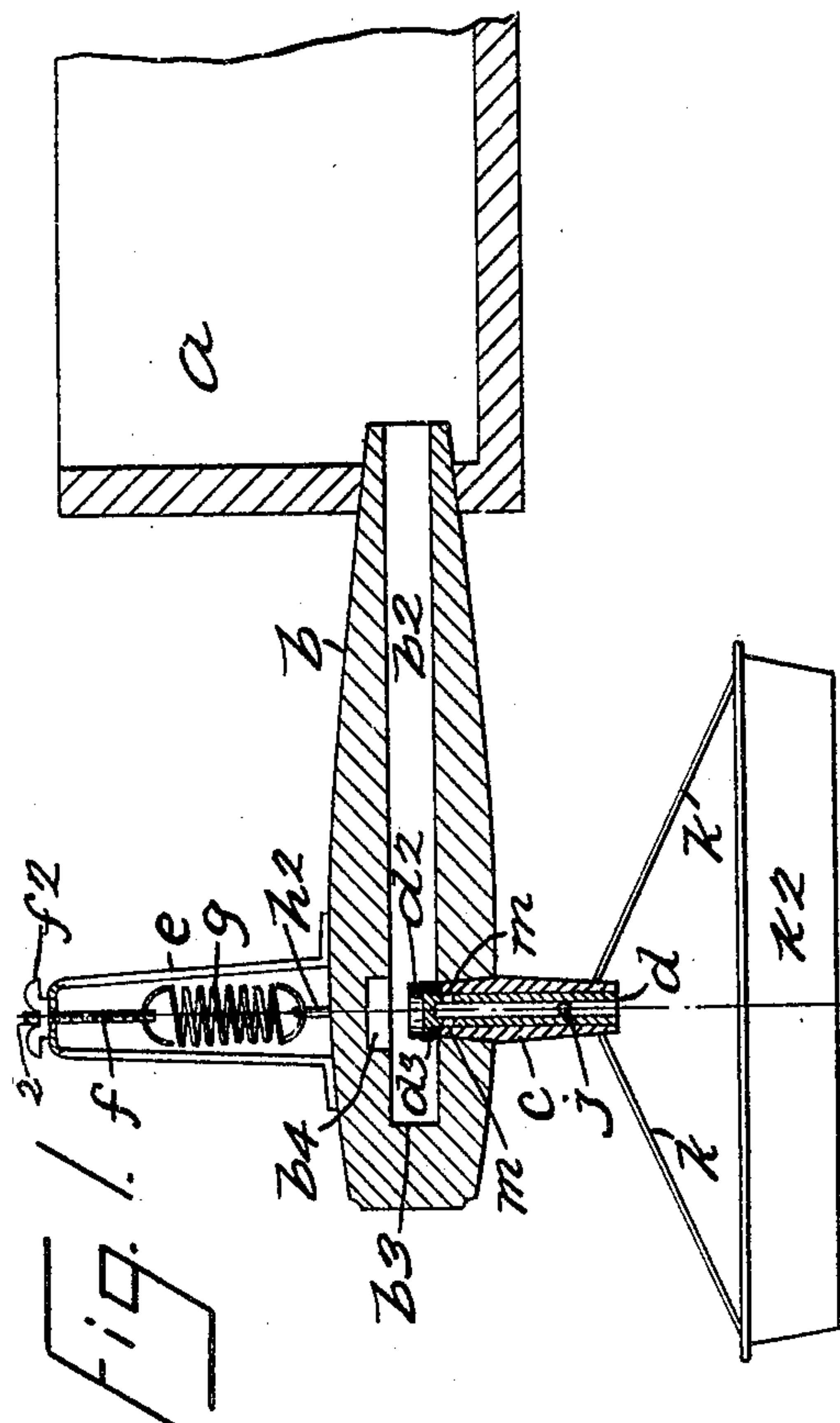
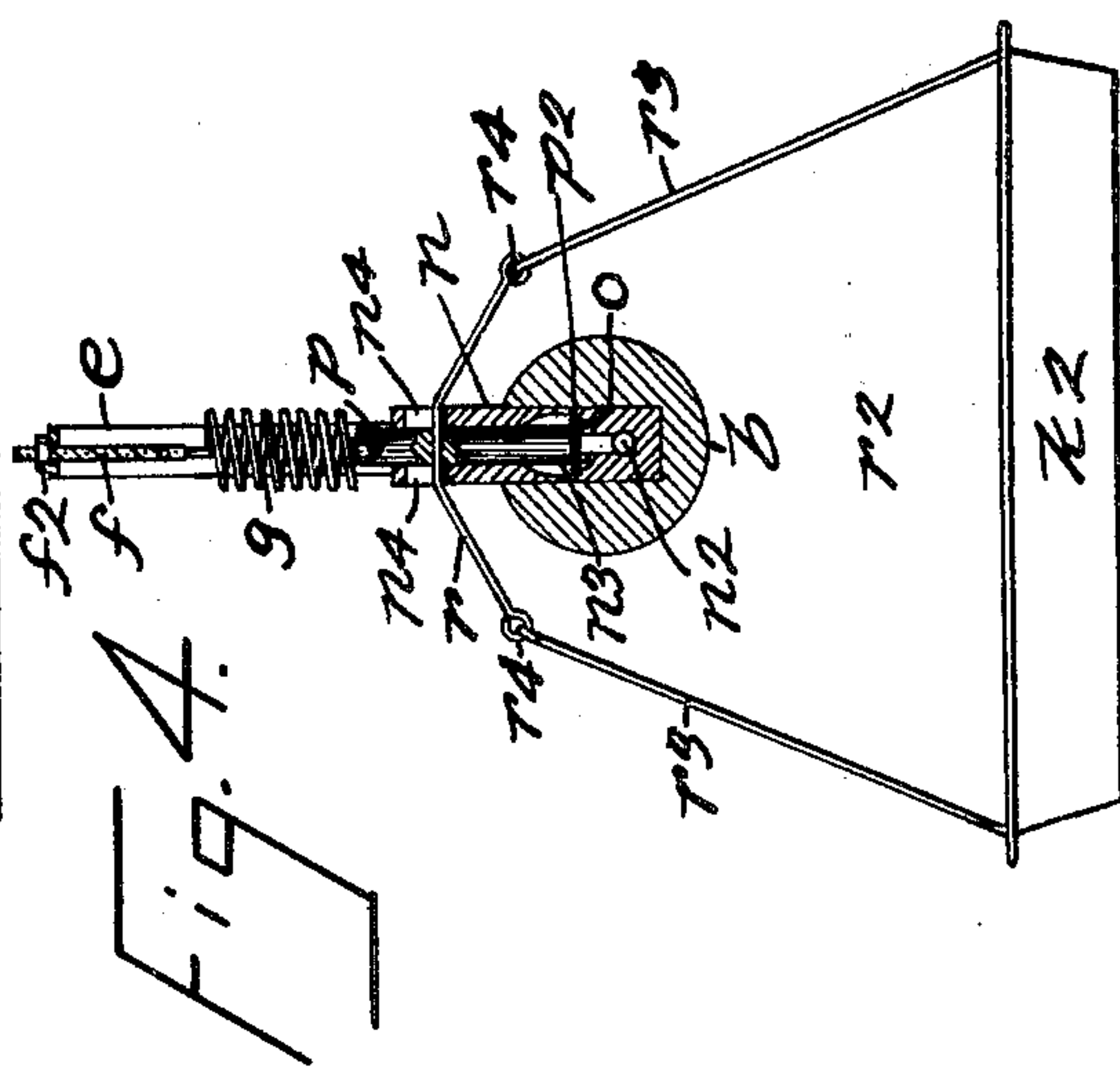
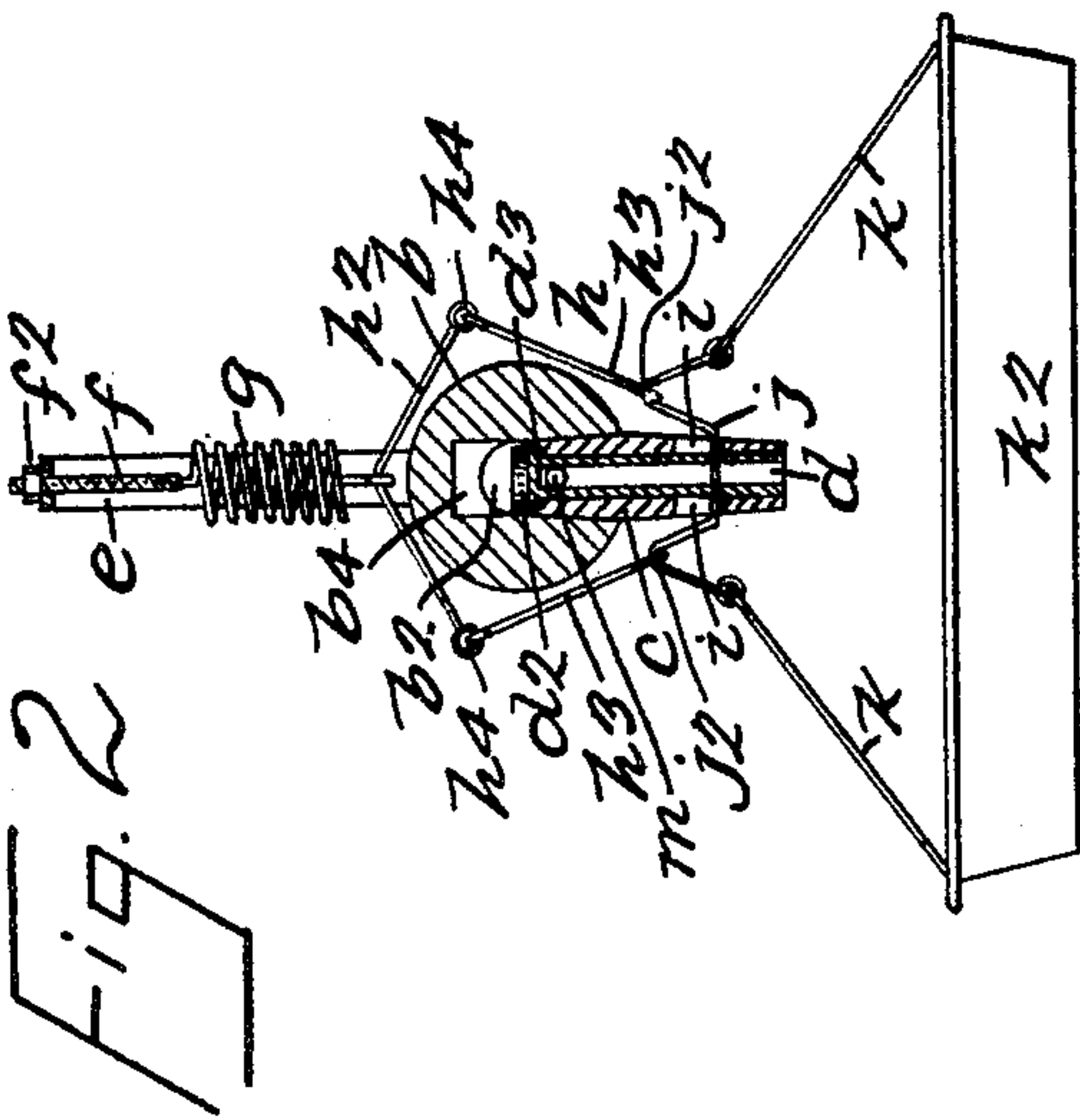


F. BADE.
WATER SUPPLYING DEVICE FOR POULTRY.
APPLICATION FILED FEB. 10, 1905.



WITNESSES
J. C. Lasser
F. A. Stewart

INVENTOR
Ferdinand Bade
BY *Edgar Tate & Co*
ATTORNEYS

UNITED STATES PATENT OFFICE.

FERDINAND BADE, OF NEW YORK, N. Y.

WATER-SUPPLYING DEVICE FOR POULTRY.

No. 804,C83.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FERDINAND BADE, a subject of the German Emperor, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Water-Supplying Devices for Poultry, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to water-supply devices for use in poultry-yards or in connection with poultry-houses; and the object thereof is to provide an improved device of this class by means of which a predetermined amount of water may be automatically supplied at all times for use by poultry, a further object being to provide a water-supply of the class specified having a pan or other receptacle into which water is automatically fed under predetermined conditions and in which a certain amount of water is allowed to flow; and with these and other objects in view the invention consists in an apparatus of the class specified constructed as hereinafter described and claimed.

The invention described and claimed herein is an improvement on that described and claimed in United States Letters Patent No. 682,779, granted to me September 17, 1901, and is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a sectional side elevation of a device or apparatus involving my invention; Fig. 2, a section on the line 2 2 of Fig. 1; Fig. 3, a view similar to Fig. 1, but showing the modification; and Fig. 4, a section on the line 4 4 of Fig. 3.

In the drawings forming part of this specification I have shown at *a* a water-tank which may be of any desired form of construction and which may consist of an ordinary barrel, if desired, and in the practice of my invention I provide a faucet *b*, which is provided with a longitudinal bore *b*², which does not extend entirely through the faucet, but terminates near the outer end thereof, as shown at *b*³. Into the bottom portion of the outer end portion of the faucet *b* is set a discharge-tube *c*, which communicates with the bore *b*², and in the discharge-tube *c* is placed a vertically-movable valve-tube *d*, provided at its upper

end with a head *d*², which serves as a valve to close the upper end of the discharge-tube *c*, and in practice the upper end of said plug is hollowed out to form a conical valve-seat, and the bottom of the head *d*² is similarly formed, and the bottom of said head is also preferably provided with a packing or gasket *d*³, of rubber, leather, or similar material, so as to form a close connection between the head or valve *d*² and the valve-seat at the upper end of the discharge-tube *c*, and formed in the top portion of the faucet *b*, directly over the discharge-tube *c* in the form of construction shown, is a recess *b*⁴, adapted to receive the head *d*² of the tube *d* when said tube is in its raised position.

Mounted on the faucet *b* is a yoke-shaped frame or support *e*, through the top of which is passed a screw *f*, provided with a thumb-nut or similar device *f*², and suspended from the lower end of the screw *f* is a spiral spring *g*, and connected with the lower end of the spring *g* is a yoke-shaped hanger *h*, comprising a yoke-shaped top portion *h*² and side portions *h*³, loosely connected with the cross-head top portion at *h*⁴.

The opposite sides of the discharge-tube *c*, near the lower end thereof, are provided with vertically-arranged slots or openings *i*, and passed therethrough and through the tube *d* is a rod *j* or similar device. The opposite end portions of the rod *j* in the form of construction are connected at *j*² with the side portions *h*³ of the yoke-shaped device *h*, and suspended from the opposite end portions of the rod *j* or other similar device, by means of hangers *k*, is a pan or other water-holder *k*².

The tube *d* is provided just below the valve-head *d*² with side ports or passages *m*, and in Figs. 1 and 2 of the drawings the parts are shown in the position they occupy when the pan or water-holder *k*² is filled or partially filled with water, and the operation of this form of construction will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.

It will be understood that the poultry have free access to the pan or water-holder *k*² at all times, and when the water therein has been exhausted, or partially so, the spring *g* raises the tube *d* and the pan *k*², and this operation, as will be understood, forces the valve-tube *d* upwardly, and the water is free to flow through the faucet *b* and through the ports or passages *m* into the tube *d* and through

said tube into the pan k^2 , and when a sufficient amount of water has thus flowed into the pan k^2 the weight thereof pulls the tube d downwardly against the operation of the spring g , and the flow of water into the pan k^2 is cut off, and this operation, as will be understood, is automatically repeated as often as the decrease of the supply of water in the pan k^2 reaches a point where the spring g will be strong enough to raise said pan, and by turning the thumb-nut f^2 on the screw f it will be understood that the pressure necessary to operate the valve-tube d may be regulated as may be desired.

In Figs. 3 and 4 of the accompanying drawings I have shown a modification in which the faucet b and the discharge-tube c are employed, as shown in Figs. 1 and 2, together with the part e , the screw f , and the spring g ; but in this form of construction the recess b^4 in the top portion of the faucet is preferably enlarged, and passing downwardly through the top portion of the faucet is a tubular plug n , the bottom portion of which is provided with an L-shaped port or passage n^2 , which communicates with the entrance end of the bore b^2 of the faucet b and also with an outwardly-directed port or passage n^3 in the tubular plug n , which communicates with the recess b^4 and with the outer end portion of the bore b^2 of the faucet b , and at the point where the L-shaped port or passage n^2 communicates with the port or passage n^3 is a valve-seat o , and movable vertically in the upper end of the tubular plug n is a valve-plug p , connected with the lower end of the spring g and provided at its lower end with a packing p^2 , which is adapted to be seated on the valve-seat o and to close the port or passage n^2 , and the laterally-directed port or passage n^3 is much larger than the port or passage n^2 , so as to permit of the free escape of the water or the free passage of the water through the tubular plug n . In this form of construction the upper end portion of the tubular plug n is provided with opposite and vertically-arranged slots or openings n^4 , and passed therethrough and through the vertically-movable valve-plug p is a rod or similar device r , forming part of a hanger r^2 , having side members r^3 loosely connected with the rod or other device r at r^4 , and by means of which the pan or water-holder k^2 is suspended. The operation of this form of construction will be substantially the same as of the construction shown in Figs. 1 and 2. In the position of the parts shown the pan or water-holder k^2 is supposed to be filled or partially filled with water and the valve-plug p is in position to close the port or passage n^2 , and when the water in the pan k^2 is exhausted, or partially so, the spring g will raise the valve-plug d^2 and the pan k^2 and the water will be free to flow through the faucet b and through the ports or passages n^2

and n^3 in the valve-plug and out through the discharge-tube c into the pan k .

Any suitable form of valves may be employed at d^2 in Figs. 1 and 2 and at o in Figs. 3 and 4, and various changes in and modifications of the construction herein described may be made without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an apparatus of the class described, a faucet having a longitudinal bore or passage closed at the outer end and provided near the outer end with a downwardly-directed discharge, a support mounted on the outer end portion of the faucet, a spring suspended in said support over said faucet, a vertically-movable valve device mounted in the faucet and adapted to be operated so as to open or close the passage therethrough, and a water-holder suspended from said spring beneath said faucet, the suspending devices of the water-holder being in operative connection with the valve device, substantially as shown and described.

2. A faucet provided with a longitudinal bore or passage the outer end of which is closed and provided with a downwardly-directed discharge, a support mounted on the outer portion of the faucet, a spring suspended in said support over said faucet, a vertically-movable valve device mounted in the discharge of the faucet and adapted to open and close the same, and a pan suspended from said spring beneath the discharge of the faucet by devices in operative connection with the valve device whereby the valve device will be operated when the pan is raised or lowered, substantially as shown and described.

3. In an apparatus of the class described, a faucet having a longitudinal bore or passage closed at the outer end and provided near the outer end with a downwardly-directed discharge, a support mounted on the outer end portion of the faucet, a spring suspended in said support over said faucet, a vertically-movable valve device mounted in the faucet and adapted to be operated so as to open and close the passage therethrough, and devices for suspending a water-holder beneath the faucet, said devices, said valve and said spring being in direct operative connection, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 9th day of February, 1905.

FERDINAND BADE.

Witnesses:

C. E. MULREANY,
F. A. STEWART.