

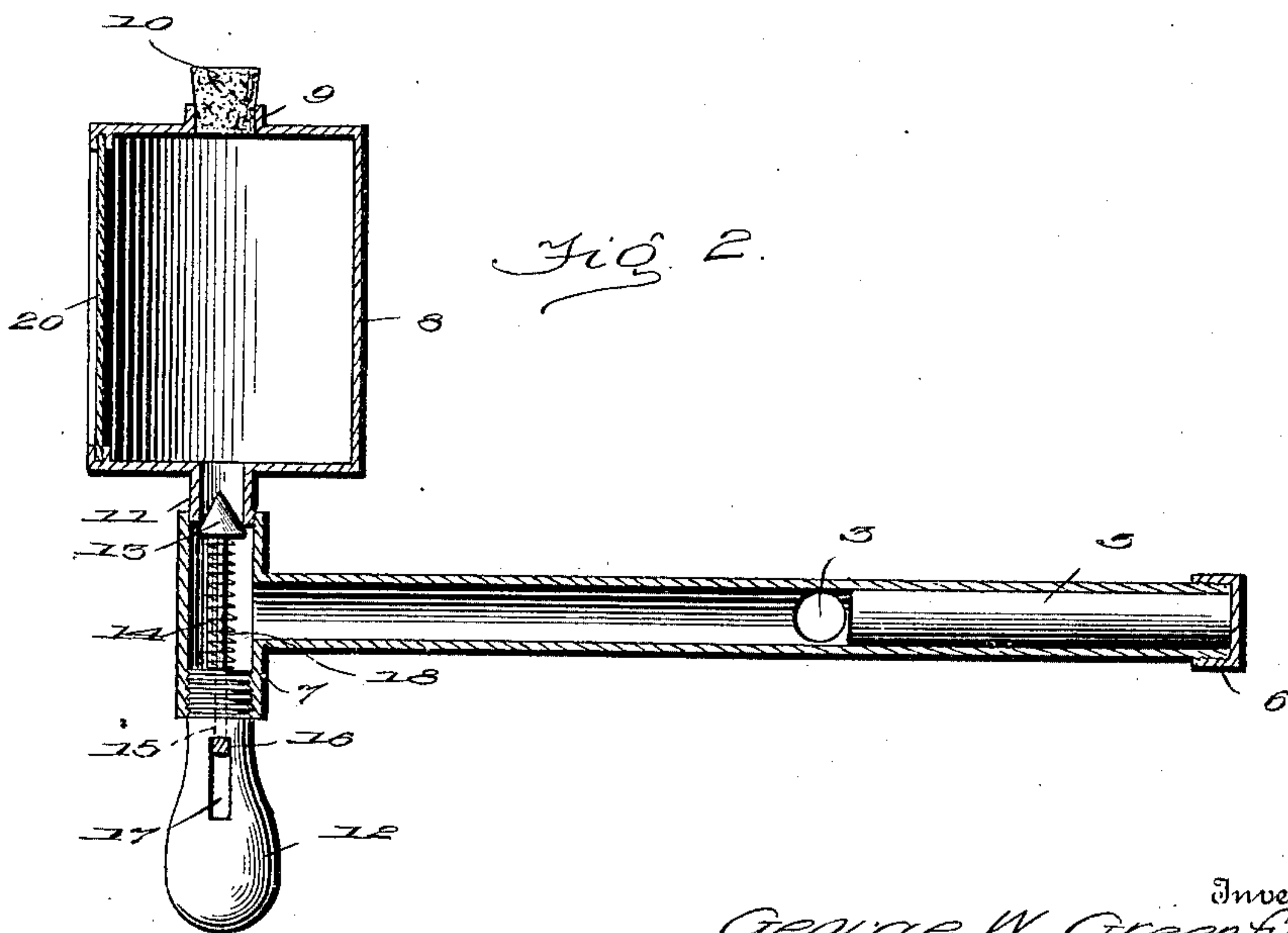
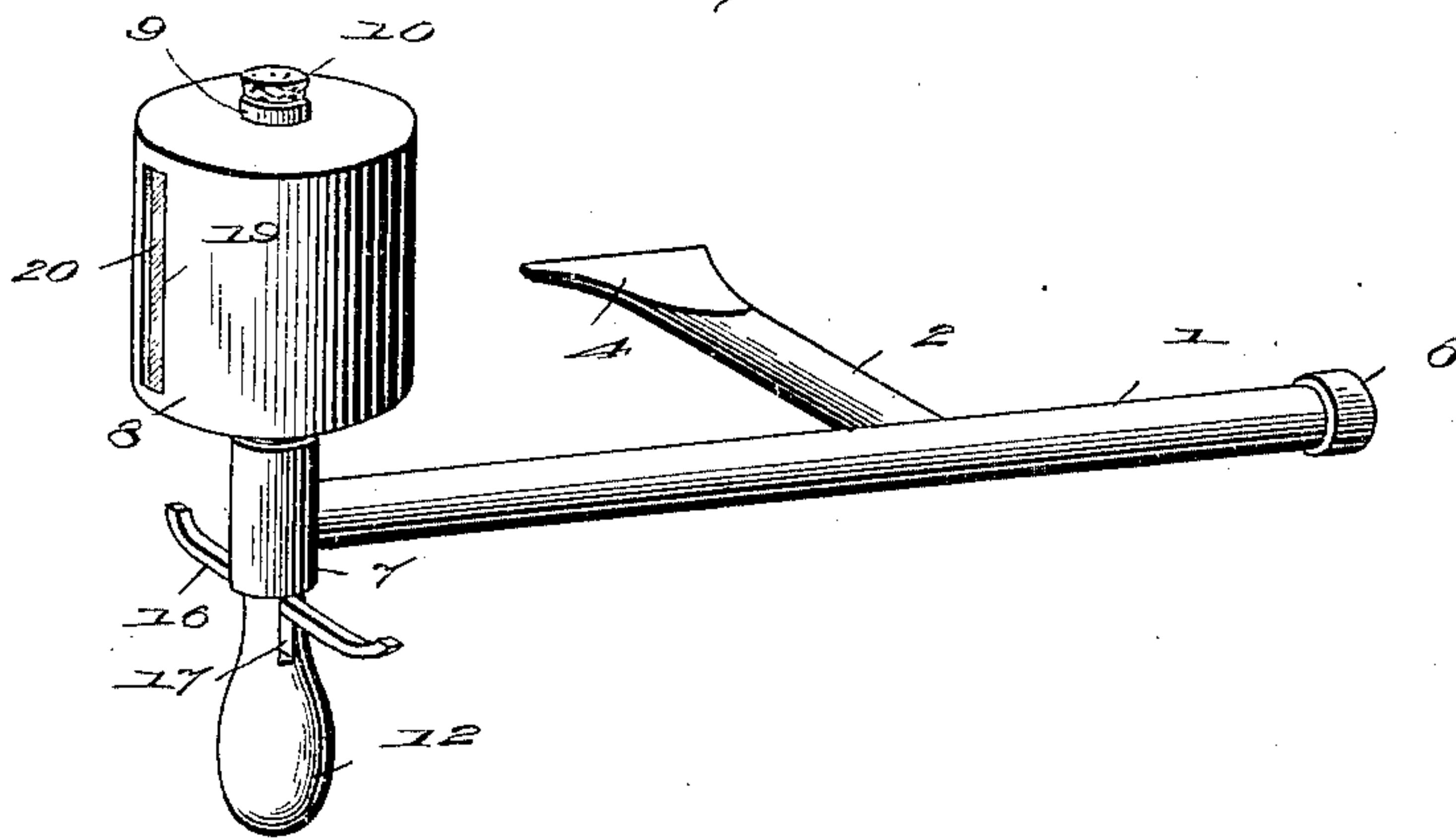
No. 688,168.

Patented Dec. 3, 1901.

G. W. GREENFIELD.
DRENCHING BIT.

(Application filed Feb. 11, 1901.)

(No Model.)



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UNITED STATES PATENT OFFICE.

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DRENCHING-BIT.

SPECIFICATION forming part of Letters Patent No. 688,168, dated December 3, 1901.

Application filed February 11, 1901. Serial No. 46,875. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. GREENFIELD, a citizen of the United States, residing at Fountain City, in the county of Wayne and State of Indiana, have invented new and useful Improvements in Drenching-Bits, of which the following is a specification.

This invention relates to drenching-bits, the object in view being to provide an article in the form of a bit adapted to be applied to the mouth of a horse or other animal and to contain a supply of medicine in liquid form, the device also having associated therewith means whereby any desired amount of medicine may be given to the animal and the amount visually indicated. By means of the construction hereinafter described the operator can tell the exact amount of medicine given to the animal, and the article is so constructed that there is no danger of losing any of the medicine and also no danger of injuring the animal's mouth. The device may be readily operated by a single person and is especially useful for farmers, stablemen, and veterinarians.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement hereinafter fully described, illustrated in the drawings, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of a drenching-bit constructed in accordance with the present invention, and Fig. 2 is a central longitudinal section through the same.

Similar numerals of reference designate corresponding parts in both figures of the drawings.

The bit proper consists of a tubular bar 1, having connected thereto at a point intermediate its ends a drenching-tube 2, said tube communicating at its inner end with an opening 3 in the side of the tubular bar 1 and having its outer end flattened or made into elliptical form to provide a broad discharge-nozzle 4, said nozzle and drenching-tube being designed to lie upon the animal's tongue in administering the medicine, while the tubular bar 1 extends across the tongue and is placed in the animal's mouth similarly to the ordinary harness-bit. It may here be stated

that any suitable arrangement of straps may be associated with the bit for holding the same securely on the animal's head during the operation of administering the medicine. One end of the tubular bar 1 is closed by a stopper or plug 5 to prevent the medicine from flowing past the inlet-opening to the drenching-tube 2, and a sealing-cap 6 is also applied to the same end of the tubular bar. The opposite end of the tubular bar is provided with a T-head 7 of tubular form and having its opposite ends internally screw-threaded.

8 designates a medicine holder or receptacle, which may be of any preferred form, being shown for convenience as in the form of a hollow cylinder provided at one end with a neck 9 to receive a stopper 10 and by means of which the holder may be filled with medicine. The holder is provided at the end opposite the neck 9 with a combined nipple and valve-seat 11, which is externally screw-threaded and fitted into the upper end of the T-head 7.

A handle 12 is threaded into the lower end of the T-head 7 and carries the valve 13, which is preferably conical and composed of rubber, so as to seal and close the nipple 11, the extremity of the nipple forming the seat for the valve. The valve is provided with a stem 14, which enters a longitudinal opening 15 in the handle, and is provided with a cross-head 16, forming a finger-grip, by means of which the valve may be operated and unseated. The cross-head 16 plays in a longitudinal slot 17 in the handle, and the valve is held normally seated by means of a coil-spring 18, which encircles the valve-stem and is interposed between the inner end of the handle and the rear face of the valve.

The holder 8 is provided in one side with a longitudinal slot or opening 19, into which is fitted a transparent panel 20, forming a visual gage by means of which the operator can ascertain the exact amount of medicine administered to the animal.

From the foregoing description it will be seen that after the drenching-tube and tubular bar have been placed in the animal's mouth the operator by grasping the handle and engaging the cross-head 16 with his fingers

can unseat the valve for any desired length of time and allow the desired amount of medicine to pass from the holder through the T-head and also through the tubular bar 1 into the drenching-tube 2, from which it is delivered through the nozzle 4 upon the animal's tongue. In connection with the drenching-bit it is desirable to employ some means for holding the animal's head elevated, so that the medicine will find its way down the animal's throat. It will be observed also that the operator by means of the visual gage may observe the exact amount of medicine administered.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

A drenching-bit comprising a tubular bar having a tubular T-head and an outlet-opening, a drenching-tube in communication with the outlet-opening, a receptacle having a nipple fitted to the upper end of the T-head, a handle having a longitudinal opening and slot and fitted to the lower end of the T-head and a spring-valve, seating against the nipple, having a stem sliding in the longitudinal opening of the handle and a finger cross-bar working in the slot of the handle.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. GREENFIELD.

Witnesses:

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