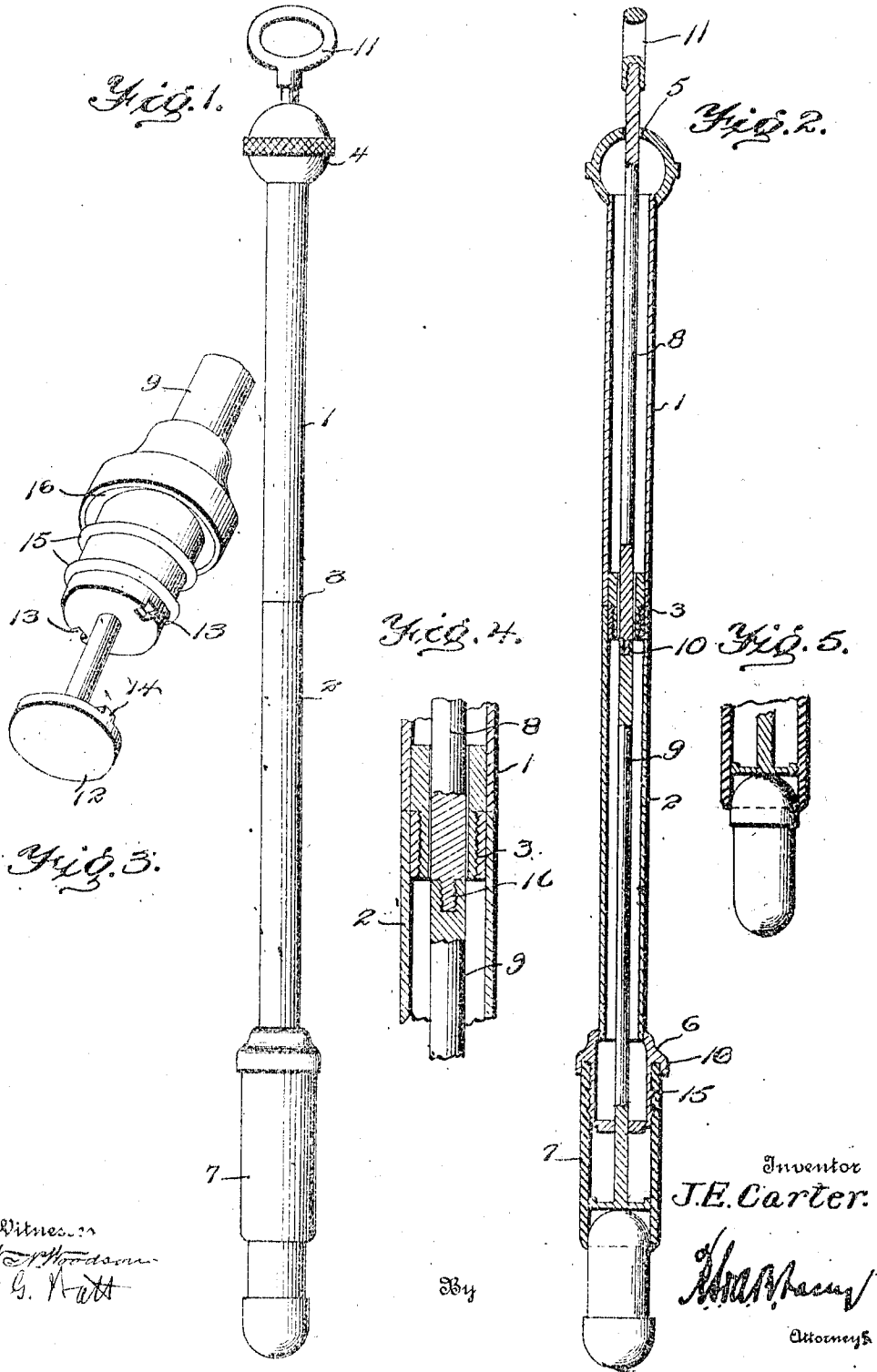


J. E. CARTER.
VETERINARY INSTRUMENT.
APPLICATION FILED JULY 21, 1911.

1,031,244.

Patented July 2, 1912.



UNITED STATES PATENT OFFICE.

JOSEPH E. CARTER, OF FARGO, NORTH DAKOTA.

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Specification of Letters Patent.

Patented July 2, 1912.

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To all whom it may concern:

Be it known that I, JOSEPH E. CARTER, citizen of the United States, residing at Fargo, in the county of Cass and State of North Dakota, have invented certain new and useful Improvements in Veterinary Instruments, of which the following is a specification.

This invention relates to veterinary instruments, and more particularly to an instrument for administering capsules to horses and other animals.

The invention aims primarily to provide an instrument of simple construction which may be readily manipulated by one hand for the purpose of properly placing the capsule upon the tongue of an animal, all danger of the one administering the medicine being bitten by the animal being eliminated.

A further aim of the invention is to provide an instrument for this purpose so constructed that there will be no liability of the tissues of the throat of the animal being injured by the instrument.

A still further aim of the invention is to so construct the instrument that it may be readily taken apart and packed in an ordinary hand satchel.

For a full understanding of the invention reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a view in elevation of the instrument. Fig. 2 is a longitudinal sectional view therethrough. Fig. 3 is a detail longitudinal sectional view. Fig. 4 is a detail perspective view of a portion of the plunger of the instrument. Fig. 5 is a detail view of the cup of the device showing a capsule inserted large end first therein.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawing by the same reference characters.

In the drawing, the instrument embodying the present invention is illustrated as including in its structure a stem consisting of two tubular sections, one indicated by the numeral 1 and the other by the numeral 2, the sections having threaded connection, as at 3. A hand-grip 4 is fixed at one end of the section 1 and is formed with an opening 5 which is in alinement with the bore of said section. The section 2 is provided at

the end opposite its threaded end with a ferule 6 upon which is fitted a flexible, elastic and expansible capsule receiving cup 7. These cups may be made of different sizes and may be made readily detachable so that one instrument may be employed in administering capsules of any size.

A plunger is employed for ejecting the capsules from the cup and consists of a section 8 and a section 9, the two sections having threaded connection as at 10. The plunger rod is slidably fitted through the stem of the instrument and through the opening 5 in the hand-grip 4 and is provided at its end which projects through the said opening 5 with a finger-ring 11. At its opposite end the plunger rod is provided with a head 12 designed to engage the capsule to be ejected from the cup 7. The ferule 6 is formed with seats 13 preferably diametrically oppositely located and the head of the plunger is formed with lugs 14, similarly located. By providing the seats 13 and lugs 14, when it is designed to disconnect the parts of the instrument, the finger-ring 11 may be gripped and the plunger slid in the direction of the hand-grip 4 and rotated in one direction or the other until the lugs are in position in the seat. The section 8 of the plunger rod may then be rotated backwardly so as to unthread it from the section 9, the section 9 being held against rotation by reason of the engagement of the lugs in the said seats.

In using the instrument, the capsule to be administered is disposed small end first in the cup 7, the plunger being drawn to the limit of its movement in the direction of the hand-grip 4. The instrument is then grasped by the grip 4 and with one finger engaging in the finger-ring 11. The capsule is then properly disposed upon the back of the tongue of the animal and the plunger is forced in the direction of the cup 7. This serves to eject the capsule and deposits the same upon the animal's tongue. When it is not desired to employ the plunger in ejecting the capsule the latter may be inserted large end first in the end of the cup as shown in Fig. 5, only so far as to cause it to be held so that it may be readily dislodged by merely pressing it against the animal's throat or tongue.

In order to hold the rubber cup firmly in place upon the barrel of the instrument the

said barrel is formed at its end with circumscribing ribs 15 and with a circumscribing groove 16 in which the inner end of the cup is inserted.

5 Having thus described the invention what is claimed as new is:—

1. An instrument of the class described, comprising a tubular stem consisting of connected sections, a ferrule at one end of the
10 stem having a closed end and formed with a seat in its said end, a flexible cup fitted upon the said ferrule, a plunger slidable through the stem and through the closed end of the ferrule and having a head slidably fitting in the cup, the said cup being
15 substantially cylindrical and having an open end, the head of the plunger being provided with a lug adapted to fit in said seat whereby to hold one of the sections of the stem

immovable while the sections are being disconnected. 20

2. An instrument of the class described, comprising a tubular stem, consisting of connected sections, a seat at one end of the
25 stem, a flexible cup fitted upon the said end of the stem, a plunger slidable through the stem and consisting of connected sections, and a head at one end of the plunger working in the cup and having a lug arranged to
30 engage in said seat whereby to hold one of the sections immovable while the sections are being disconnected.

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

JOSEPH E. CARTER. [L. s.]

Witnesses:

WM. GILLES,
R. E. RINGROSE.