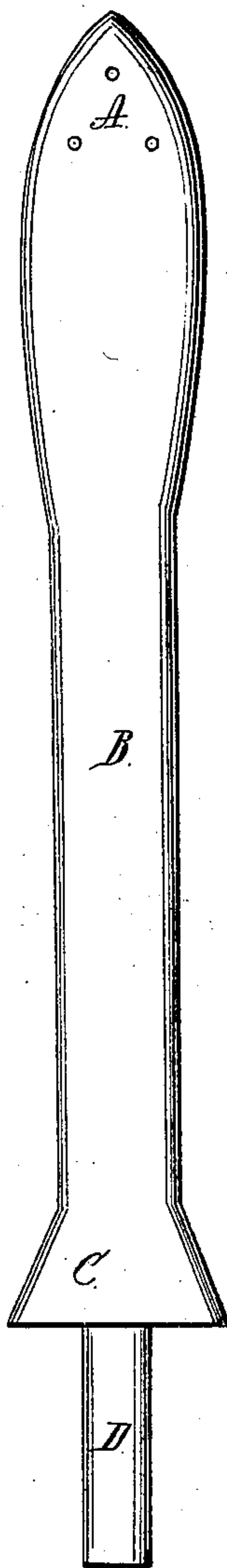


Munger & Pomeroy,
Relieving Cattle of Choke and Bloat,
Nº 92,085, Patented June 29, 1869



Witnesses:

C. J. Monroe
J. L. Lipp

Inventors:

N. L. Munger
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United States Patent Office.

N. Q. MUNGER, OF CASCO, AND G. B. POMEROY, OF SOUTH HAVEN,
MICHIGAN.

Letters Patent No. 92,085, dated June 29, 1869.

IMPROVEMENT IN INSTRUMENTS FOR RELIEVING CHOKE AND BLOAT IN CATTLE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, N. Q. MUNGER, of Casco, Allegan county, Michigan, and G. B. POMEROY, of South Haven, Van Buren county, Michigan, have invented an Improvement upon "Œsophagus-Tubes," for which Letters Patent were granted to said N. Q. MUNGER, July 10, 1860; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which drawing is a plan view of said invention.

The nature of our invention may be better understood from a brief description of the former invention, upon which this is an improvement, followed by a statement of the character of the improvement, and the purposes for which it is intended.

The original invention of Mr. MUNGER, was an instrument intended for the speedy and effective relief of cattle suffering from choke or bloat, and consisted of a tube, the middle portion being made of a closely-wound coil of wire, and covered with leather, or other suitable material.

One end of said tube is open, with a flaring mouth-piece, and the other end closed, and expanded in the form of an egg, and perforated with a number of holes.

To relieve cattle from choke, the open end was passed down the throat of the beast until it touched the obstacles, and pushed them down; the flaring shape of the end, and the flexibility of the tube, making it effective instantly, without injury to the animal.

In case of bloat, the closed end of the tube was passed into the anus, and when it reached the part affected, the egg-shaped form of said end enlarged the passage, and allowed the gas to escape through the perforations into the tube, and so out of the tube.

It was found in use, that the instrument was quite expensive in its first cost, mainly from the employment of the coiled wire; that for the same reason it was difficult to clean; and the wire easily rusting, it was liable to get out of repair in a short time, and was not easily repaired, because, to make such repair, it was necessary to remove the leather covering.

In addition to this, it could not be used for purposes of injection, which is often essential in the treatment of diseases of cattle.

Our improvement, therefore, is the employment of a tube, of the general form of that in the original in-

vention, made of leather, gutta-percha, or India rubber, and about four feet long.

In combination with this tube, for injection-purposes, we use a flexible piston, of proper length, made of leather, gutta-percha, or India rubber.

A more particular description is as follows:

B is a cylindrical tube, made of leather, gutta-percha, or India rubber, having an open end, C, with a flaring mouth, and a closed end, A, egg-shaped, and larger than the middle of the tube, with several perforations near its point.

The inner diameter of this tube is the same throughout its entire length.

A piston, D, of similar material as the tube, and somewhat longer than it, has its front end packed so as to fit tightly to the inside.

To relieve cattle from choke, remove the piston D, and introduce the end, C, of the tube into the mouth of the animal, and pass it down the throat, pushing with it all obstructions into the stomach.

To relieve from bloat, remove the piston D, and introduce the end A, of the tube B, into the anus of the animal, and push it along until it reaches the part affected, when the gases will escape through the perforations into the tube, and through the tube into the air.

In case of bloody murrain, or in any disease where an injection is desirable, pass the end A, of the tube B, without the piston, into the anus of the animal, until it reaches the part to be relieved, then pour into it the liquor to be injected, and then, placing the piston D into the tube, use it as a syringe.

This instrument is an improvement upon the former invention, in flexibility, in cheapness, in durability, in cleanliness, in greater ease of repair, and in its combination with a piston; can be used in a larger class of diseases, and in that respect is more effective.

What we claim as our invention, and desire to secure by Letters Patent, is—

The piston D, in combination with an instrument for the relief of choke and bloat, it consisting of a tube, B, with flaring open end C, and perforated egg-shaped end A, constructed and operating as above described.

N. Q. MUNGER. [L. S.]
G. B. POMEROY. [L. S.]

Witnesses:

THOS. HEWSON,
S. A. SIMMONS.