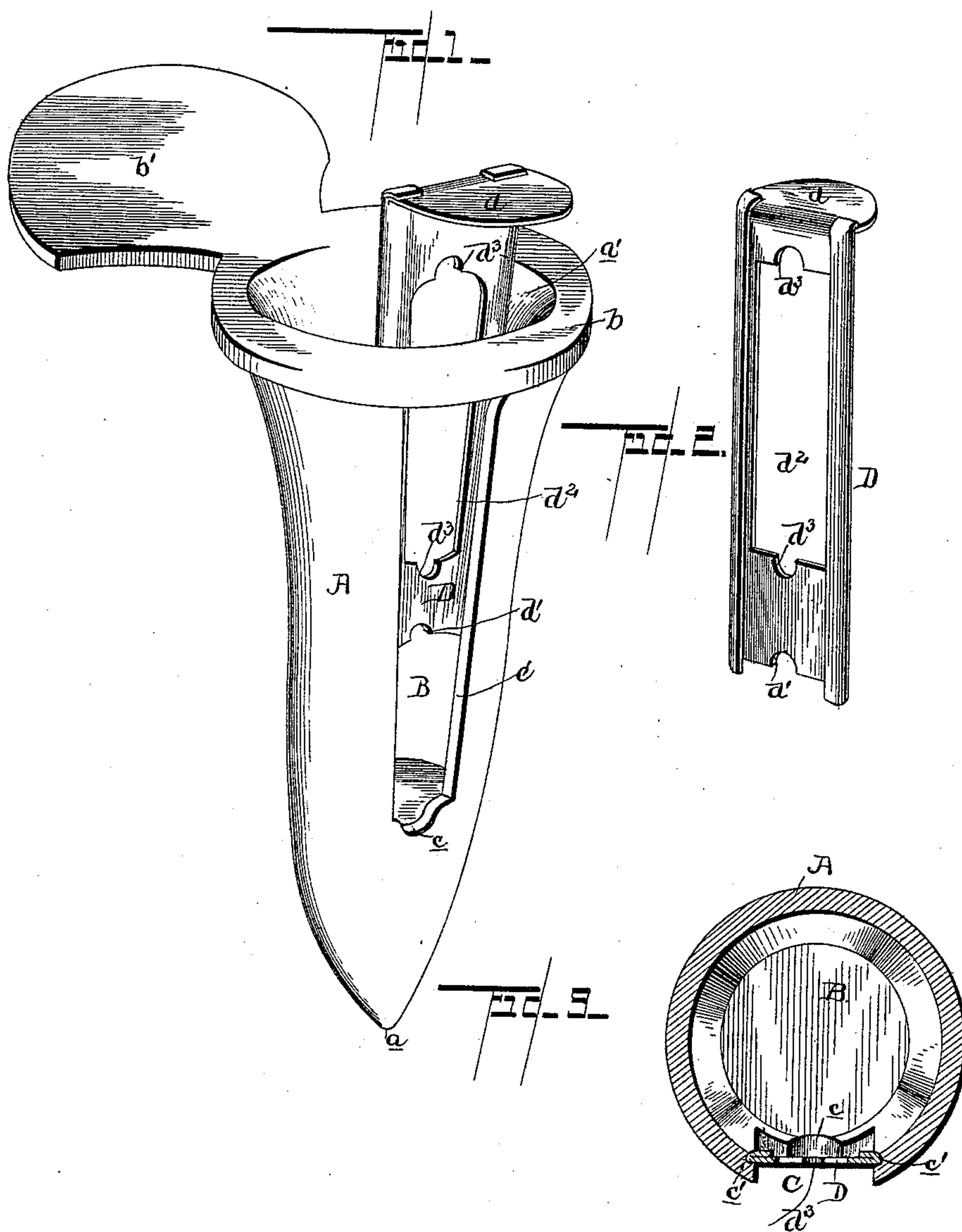


(No Model.)

T. T. DAVIS.  
RECTAL SPECULUM.

No. 466,004.

Patented Dec. 29, 1891.



Witnesses

*W. G. Seitz*

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# UNITED STATES PATENT OFFICE.

TALTON T. DAVIS, OF MARION, KANSAS.

## RECTAL SPECULUM.

SPECIFICATION forming part of Letters Patent No. 466,004, dated December 29, 1891.

Application filed August 26, 1891. Serial No. 403,789. (No model.)

*To all whom it may concern:*

Be it known that I, TALTON T. DAVIS, a citizen of the United States, residing at Marion, in the county of Marion and State of Kansas, have invented a new and useful Rectal Speculum, of which the following is a specification.

My invention relates to speculums, and especially those that are designed to be used for explorations of and operations upon the rectum; and it has for its object to provide a speculum which will gradually and painlessly dilate the canal within which it is introduced, and to provide an instrument which will be available for use when blunt-pointed speculums cannot be used, being further designed to be so constructed as to adapt itself for use upon hemorrhoidal tumors of all sizes, so that the same may be grasped, confined, and held so that the possibility of an injudicious operation thereupon will be avoided; and with these and other objects in view the invention consists of a conical tapering speculum provided with a lateral inspection-slot and means for constricting located therein, and arranged and constructed in the novel manner hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a speculum constructed in accordance with my invention, the slide therein being partly removed. Fig. 2 is a detail view in perspective of a set of constricting-slides. Fig. 3 is a cross-section of the instrument.

Referring to the accompanying drawings, A designates a rectal speculum constructed of any suitable material desirable for the purpose, and is formed of a tapering conical shape, terminating at the end to be inserted in almost a point, as at *a*, and at its opposite end in a flared trumpet end *a'*, by which construction an easy insertion is obtained by means of the gradual dilator afforded by the tapering shape of the instrument. The speculum is provided with a central longitudinal chamber B, extending nearly the full length thereof, and following the shape of the device forms the flaring-trumpet end, which is further provided with an encircling annular

flange *b*, which is designed to bear against the lower end of the rectal opening and allow, after the instrument is inserted, a wide field of inspection by means of such chamber. Laterally extending out from the flared end of the instrument is a finger-grasp *b'*, which is designed to provide means whereby the instrument may be readily handled and easily inserted by the operator. An elongated rectangular inspection-slot C is formed in the side of the speculum and communicates with the chamber therein its entire length, so that the walls of the canal will be easily exposed, and is provided at its lower extremity near the tapered end of the instrument with the curved or smoothed recess or notch *c*, which can be used to hold and retain hemorrhoidal tumors while being operated upon. On opposite sides of said rectangular opening are the opposite grooves *c'*, which accommodate the restricting-slide D, working within the chamber of the speculum and directly over the slotted opening therein. The said slide is provided at its outer end with the outturned flange *d*, by which the same may be pushed within or withdrawn from the speculum, and is further provided at its inner end with the curved notch or recess *d'*, corresponding to that in the lower end of said rectangular slot, and which, as said slide may be slid within the chamber, takes over the neck of the tumors and constricts the same while an operation may be performed thereon. The slide D is further provided with a longitudinal rectangular slot *d<sup>2</sup>*, corresponding to that in the side of the instrument, but of the size to accommodate the nature of the case. As aforesaid, the slides are provided with slots of various sizes, according to the case, and said slots have at both ends thereof the circularly-formed recesses or notches *d<sup>3</sup>*, which also serve the function of grasping and retaining the hemorrhoidal tumors for the purposes set forth. It can now be readily seen that after a cursory examination has been made of the rectum through the inspection-slot of the inserted speculum the slide is inserted, or having been already inserted, and by being either withdrawn or slid within the chamber of the instrument will readily grasp and hold the tu-



mors while the same are being hypodermically operated on.

The construction and operation of my improved rectal speculum are thought to be apparent without further description.

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

1. In a rectal speculum, a conical tapering body having a flared trumpet end and provided with a central longitudinal chamber, an opening communicating with said chamber located in the side of said body, and a slotted slide working within said chamber and inclosing said opening, said slide being provided with separate constricting recesses or notches, substantially as set forth.

2. In a rectal speculum, a conical tapering body having a flared trumpet end and provided with a central longitudinal chamber, a

lateral rectangular slot communicating with said chamber its entire length, formed in the side of said body and provided at its inner extremity with a circular notch or recess, guide-grooves on opposite sides of said slot, and a constricting-slide working in said guide-groove and provided with a lower circular recess or notch, and a longitudinal slot corresponding to that within said body and provided at opposite ends thereof with oppositely-disposed circular recesses or notches, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

TALTON T. DAVIS.

Witnesses:

JOHN S. DOWNES,  
JOHN B. GREER.