

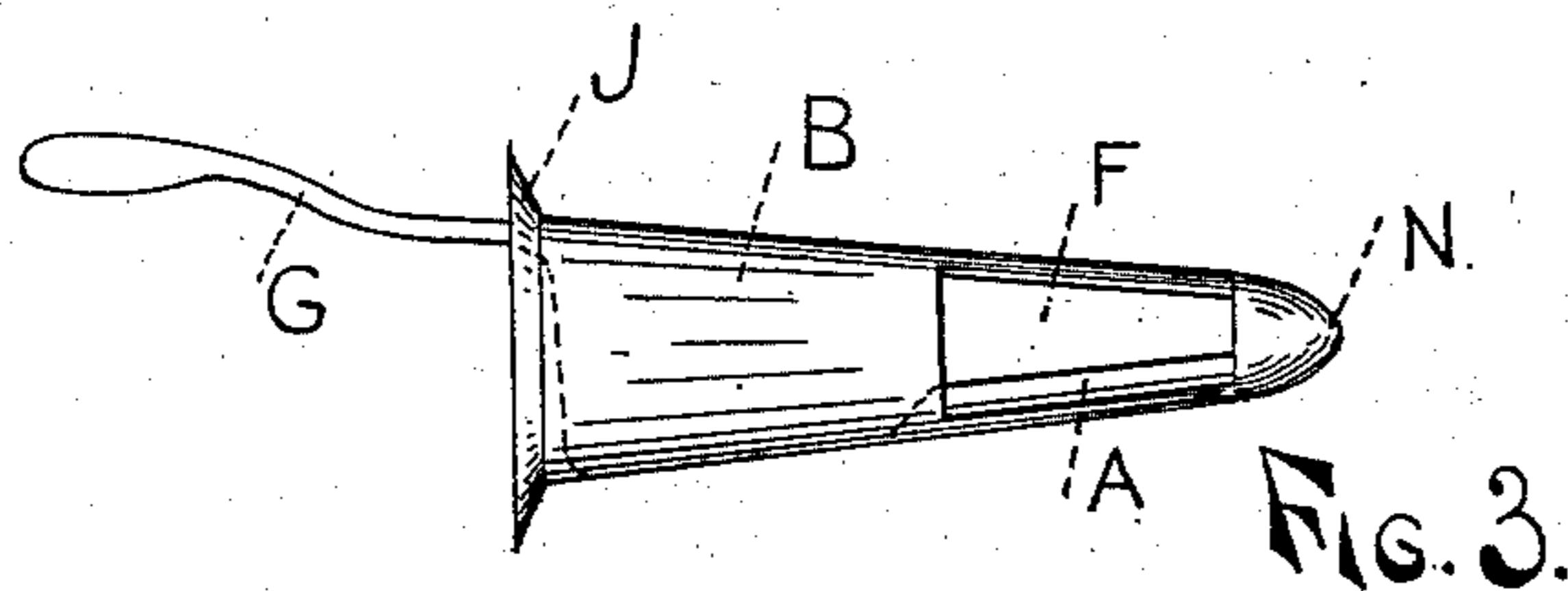
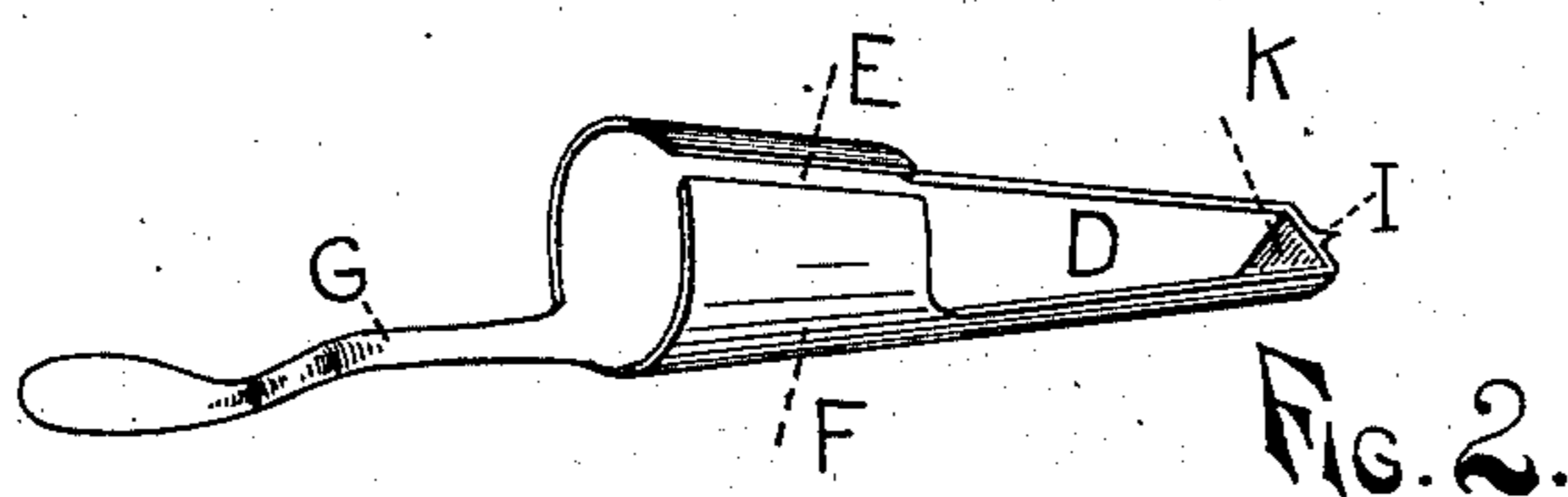
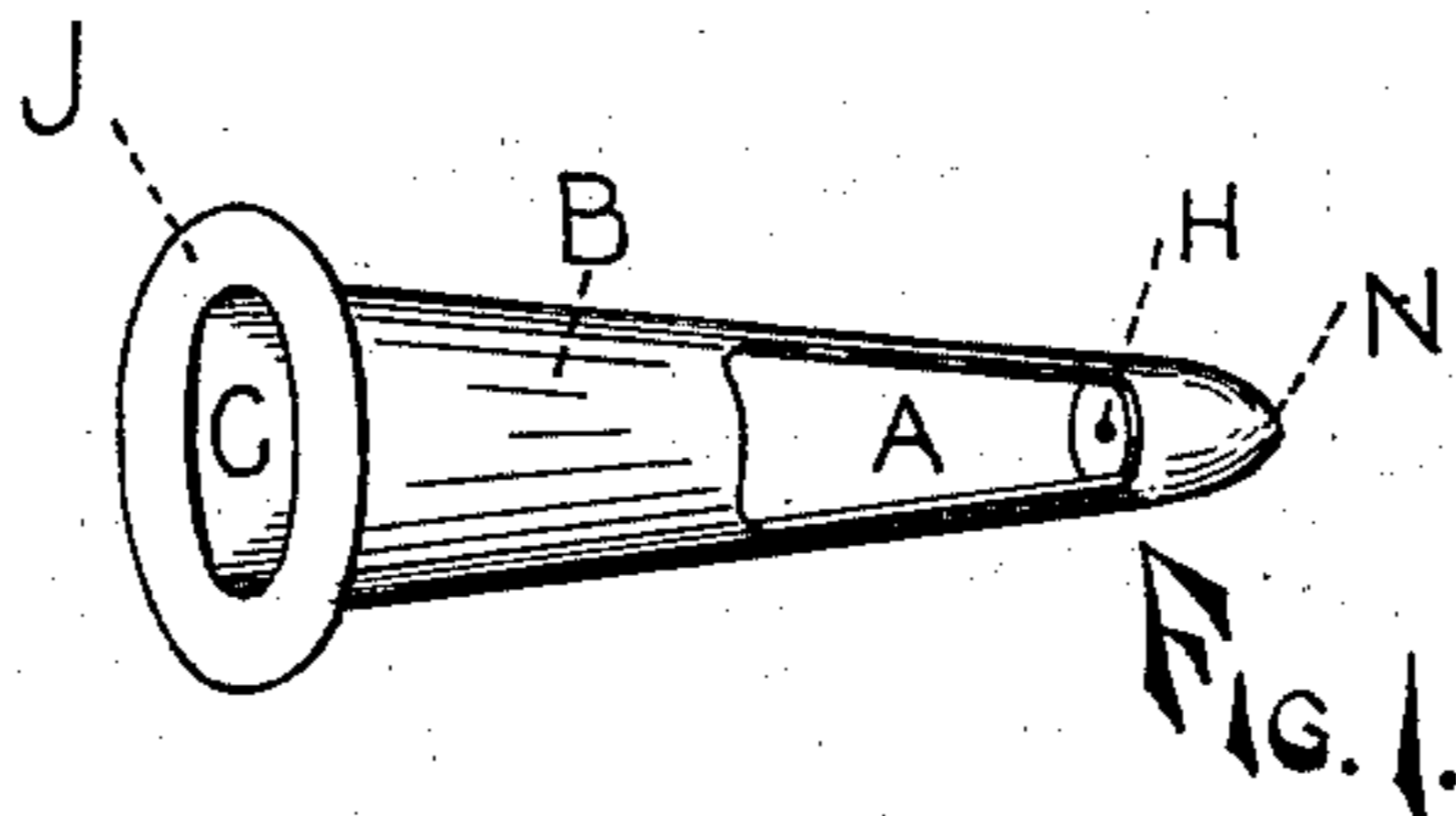
(No Model.)

A. B. BOTSFORD.

ANAL SPECULUM.

No. 315,466.

Patented Apr. 14, 1885.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ALBAN B. BOTSFORD, OF GRAND RAPIDS, MICHIGAN.

## ANAL SPECULUM.

SPECIFICATION forming part of Letters Patent No. 315,466, dated April 14, 1885.

Application filed May 2, 1884. (No model.)

*To all whom it may concern:*

Be it known that I ALBAN B. BOTSFORD, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Anal Speculums; and I do declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 is a view in perspective of the outer cone or body of the speculum. Fig. 2 is a view in perspective of the inner cone. Fig. 3 is a plan view of my invention.

Similar letters refer to similar parts throughout the several views.

The object of my invention is to provide an anal speculum more simple in its parts and at the same time more perfect in construction than any now in use. This I claim to have accomplished by the use of a slotted cone made of a single piece of metal fitting closely within the body of the speculum and operated by a rotary motion of the handle.

I describe my invention as follows:

B represents the outer cone or body of the speculum, and is provided with the slot A and the bell-shaped bottom J, and is made with the rounded top N, to prevent the entrance of feces and to promote the easy and painless insertion of the instrument. The flaring bottom J concentrates the light within the tube C and also serves a useful purpose in the introduction of medicine.

Within the cone B, I insert the inner cone,

F, fitting closely therein, and consisting of one piece of metal having the slot E to prevent any binding of one cone within the other. The inner cone is cut away at its upper end, D, so that when inserted within the outer cone its edges correspond or register with the edges of the slot A. Said inner cone is also provided with the handle G, by which, using a rotary motion, it is operated, and has at its upper end the nib or teat I, which fits into the socket H of the outer cone, thus forming a journal-bearing, whereby an even motion of the inner cone results when turned, thereby preventing any possible pinching of the anal membrane. Said inner cone is made with the upper end inclined, (shown as K in Fig. 2,) to permit the easy withdrawal of the same.

It will be seen that by the turning of the handle G the slot A may be opened to its full extent, closed entirely, or operated at any point between these two extremes.

I am aware that slotted specula have heretofore been made the subjects of patents, and I do not claim the same, broadly; but

What I do claim, and desire to secure by Letters Patent of the United States, is—

In an anal speculum, the combination of the outer cone, B, having the slot A, the bell-shaped rim J, and the inner cone, F, having the slot E and handle G, with the nib I, fitting in the socket H of the outer cone, forming a journal-bearing, all substantially as shown and described, and for the purpose set forth.

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

ALBAN B. BOTSFORD.

Witnesses:

ADOLPH B. MASON,  
ELLA P. SHUSTER.