

(No Model.)

W. R. SMITH.

APPARATUS FOR COOLING OR WARMING THE RECTUM OR VAGINA.

No. 341,177.

Patented May 4, 1886.

Fig. 1.

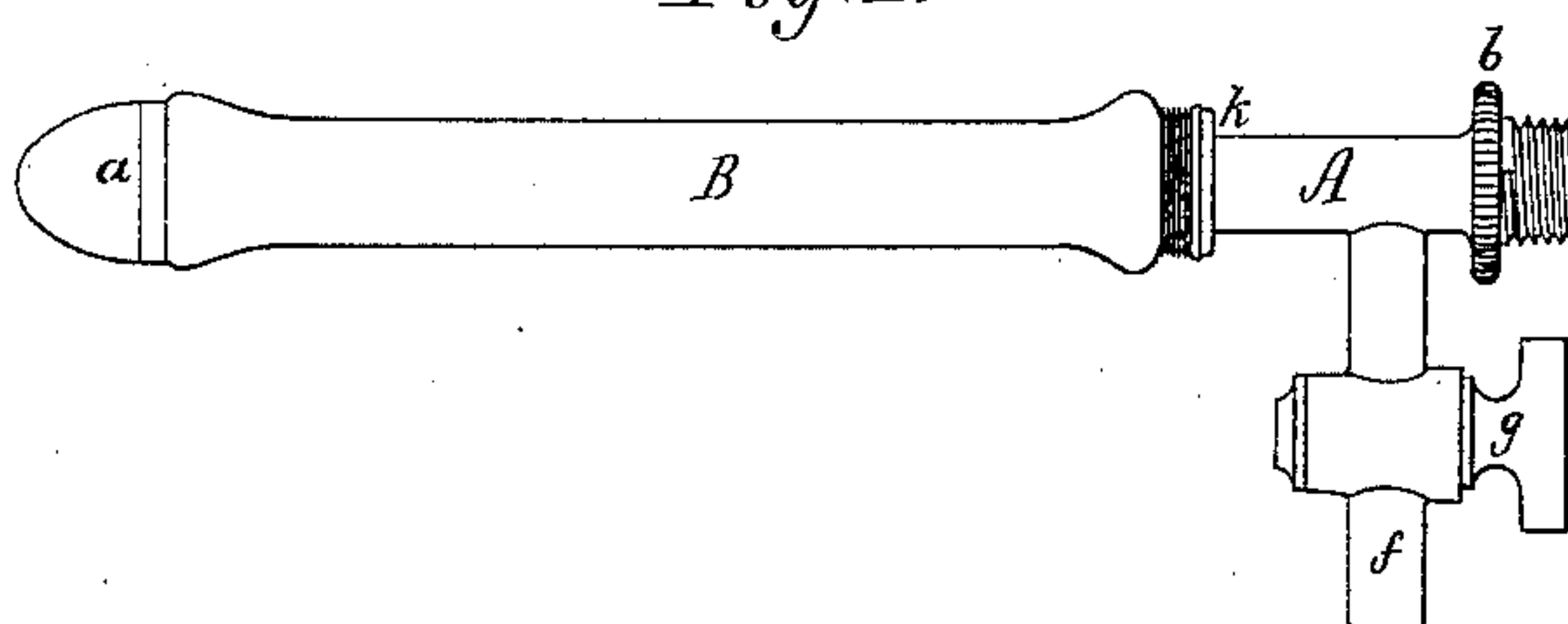
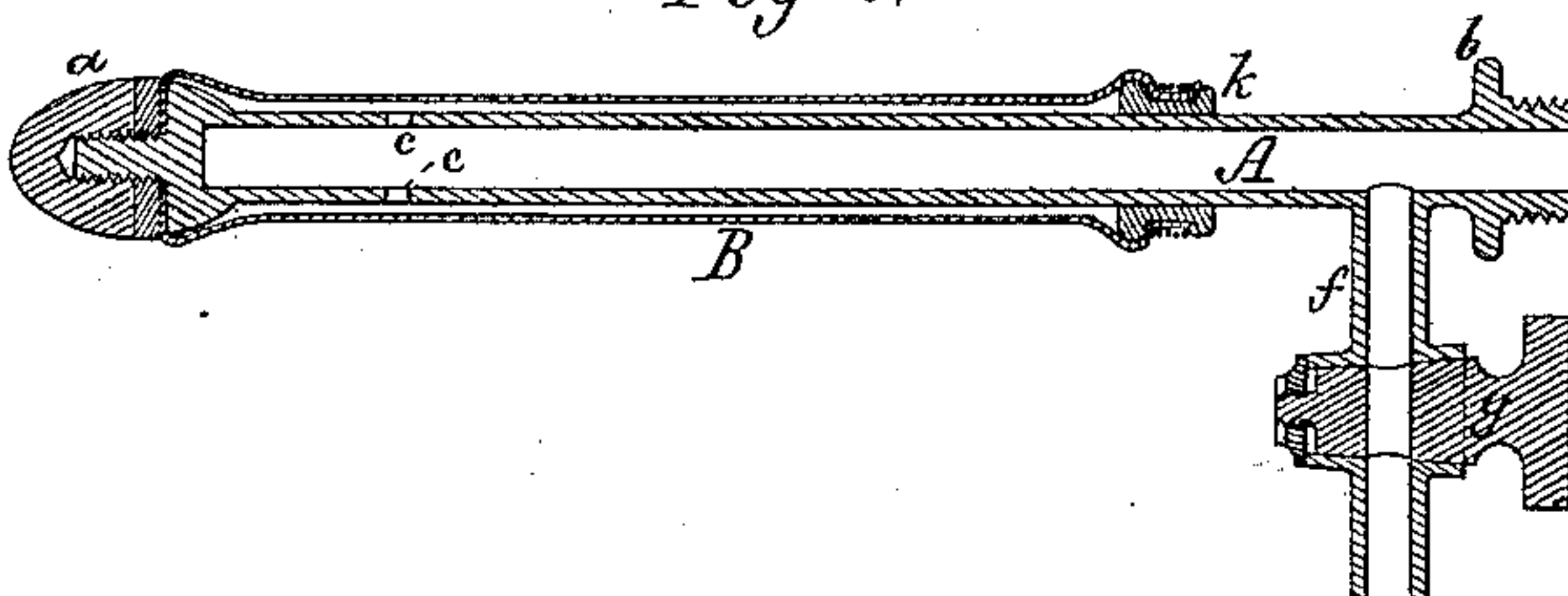


Fig. 2.



Witnesses.

S. N. Piper
Ernest P. Pratt

Inventor.

Wm. R. Smith.
by R. H. Eady atty.

UNITED STATES PATENT OFFICE.

WILLIAM ROSCO SMITH, OF BRENTWOOD, N. H., ASSIGNOR, BY MESNE ASSIGNMENTS, TO JONATHAN R. HAMILTON, OF MINNEAPOLIS, MINN.

APPARATUS FOR COOLING OR WARMING THE RECTUM OR VAGINA.

SPECIFICATION forming part of Letters Patent No. 341,177, dated May 4, 1886.

Application filed September 19, 1885. Serial No. 177,545. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM ROSCO SMITH, of Brentwood, in the county of Rockingham, of the State of New Hampshire, have invented a new and useful Improvement in Apparatus for either Cooling or Warming the Walls of the Rectum or Vagina; and I do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a side view, and Fig. 2 a longitudinal section, of an instrument or apparatus containing my invention, the nature of which is defined in the claim hereinafter presented.

In the said drawings, A denotes a jet-tube closed at its front end, or there provided with a round head or knob, *a*, which in form is a paraboloid or thereabout. At its rear end this tube is screw-threaded and provided with a milled flange or shoulder, *b*, such being for connecting a syringe or force-pump to the tube. Furthermore, the tube has one or more lateral ducts, *c*, leading out of its bore and into the space between the tube, and an expansible and water-tight sleeve, B, that encompasses the tube, such sleeve being at each end secured water-tight to the tube. This sleeve may be of vulcanized india-rubber. The said jet-tube may have a discharge-tube or educt, *f*, provided with a stop-cock, *g*, such discharge-tube or educt being to remove from the instrument any charge of water after it may have abstracted from the body of a patient heat in sufficient degree to require such removal of it.

The article thus made is for being introduced into the rectum or vagina of a person for the purpose of either cooling or warming its walls, in case of disease thereof, without wetting them. The article having been inserted head or front end foremost, with a syringe or force-pump attached to it, water, on being forced into the jet-tube, will be dis-

charged into the sleeve, and will expand it, so as to cause it to fit closely to the inner surface of the passage, and, provided the water be cold, it will cool or reduce the temperature of the organ. In some cases, where it may be desirable to raise the temperature of the walls, warm or heated water may be employed by being forced into the sleeve. The sleeve at its rear end is shown as secured water-tight to an annulus, R, encompassing the jet-tube, and adapted to slide on it lengthwise of it and water-tight. This annulus is grooved in and around its periphery, to allow of the sleeve being fastened to it by thread wound tightly around the sleeve, so as to depress it in the groove. By having the sliding annulus, a sleeve of suitable length may be used, and may be expanded not only widthwise, but lengthwise, when water is forced into it.

I do not claim a syringe constructed as represented in either of the United States Patents Nos. 317,375, 13,975, and 308,238.

I claim—

The vaginal or rectal cooler, substantially as described, consisting of the jet-tube A, closed at one end and open at its other end, a round head or knob projecting from such tube at its closed end, a branch pipe or educt leading out of the tube A near its open end and furnished with a stop-cock, as set forth, and an expansible water-proof sleeve encompassing the tube A, and fastened at one end thereto at its head and at the other to an annulus surrounding the tube, and adapted to slide water-tight thereon lengthwise thereof, all being essentially as represented, and the said tube A having one or more openings leading laterally out of its bore and into the space between such tube and the expansible sleeve, as set forth.

WILLIAM ROSCO SMITH.

Witnesses:

R. H. EDDY,
ERNEST B. PRATT.