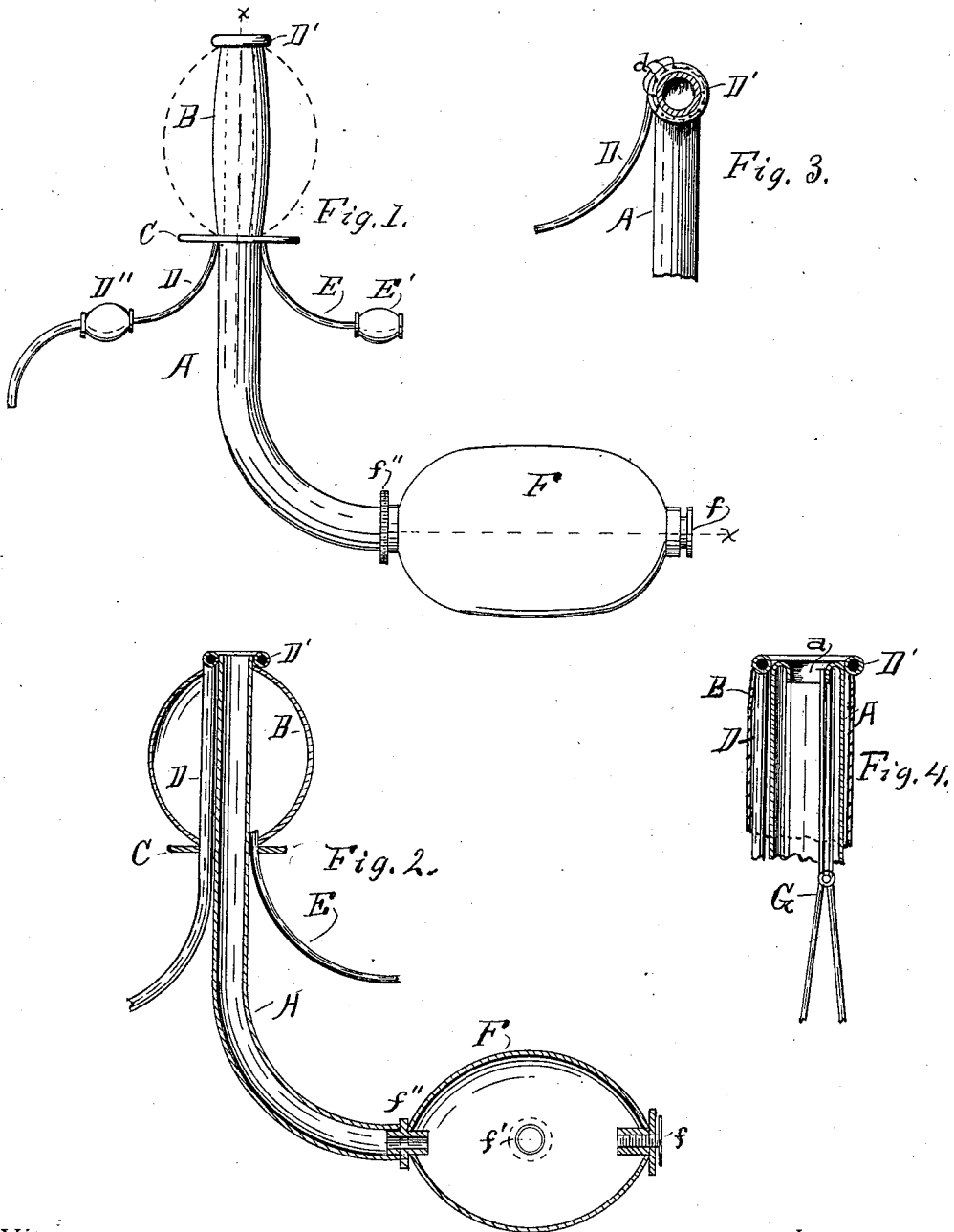


(No Model.)

P. C. MEENGs.
RECTAL IRRIGATING DILATOR.

No. 565,386.

Patented Aug. 4, 1896.



Witnesses.

Charles King
Joseph Post

Inventor.

Peter C. Meengs
By John J. Kelley
Attorney.

UNITED STATES PATENT OFFICE.

PETER C. MEENGs, OF COOPERSVILLE, MICHIGAN.

RECTAL IRRIGATING-DILATOR.

SPECIFICATION forming part of Letters Patent No. 565,386, dated August 4, 1896.

Application filed August 23, 1895. Serial No. 560,285. (No model.)

To all whom it may concern:

Be it known that I, PETER C. MEENGs, a citizen of the United States, residing at Coopersville, in the county of Ottawa and State of Michigan, have invented certain new and useful Improvements in Rectal Splints, of which the following is a specification.

My invention relates to improvements in splints for supporting the walls of the rectum when operating upon the same in cases of hemorrhoids, fistula, and all operations for fracture of the coccyx and kindred ailments; and its objects are, first, to provide a splint that may be inserted into the rectum in a collapsed state and pneumatically expanded after insertion; second, to provide a splint for rectal surgery that will avert the danger of secondary hemorrhage soiling the clothing by exuding from the rectum or bowel, and, third, to provide a rectal splint with which the inner walls of the rectum may be washed with water or with a medicated bath while the splint is in position and without removal. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of my device. Fig. 2 is a vertical section of the same on the line *xx* of Fig. 1. Fig. 3 shows the upper end of the supporting-tube bent over to show the apertures through which water may be forced to wash the parts; and Fig. 4 is a vertical section of the same, showing the manner of inserting the splint with a pair of pliers.

Similar letters refer to similar parts throughout the several views.

A is the supporting-tube, which should be made of some flexible material, as rubber, and of a proper size to allow the exudations from the rectum or bowel to pass through. The upper end of this tube should be folded in, as indicated in Fig. 4, so that it may be clasped with a pair of pliers G for the purpose of facilitating its insertion into the rectum, and will lessen the danger of the fluid contents of the bulb flowing back when the patient is in a recumbent position.

The splint proper consists of an elastic bulb B, which is inserted in the collapsed condition shown by the solid lines in Fig. 1, and is afterward inflated by forcing air through the tube E by means of the bulb E' in the

usual manner of forcing air with this class of air-pumps (which, being an article of common use, will require no further explanation in this connection) until the desired inflation is acquired, when the flexible nature of the bulb will allow it to adjust itself to the form of the parts treated.

C is a collar or guard that encircles the supporting-tube and other accessories of the appliance below the bulb B to avert the danger of inserting the instrument too far and to assist to hold it in position. The solid lines in Fig. 2 and the dotted lines in Fig. 1 represent the inflated bulb.

D represents a tube that passes through the bulb B and parallel with the supporting-tube and is provided with a series of perforations *d*, (see the loop D' in Fig. 3,) through which the water may be forced for washing the parts when the splint is inserted. The tube D is provided with a bulb D' to form an ordinary bulb-syringe for forcing water through the tube into the rectum, as hereinbefore set forth, and it may be provided with one or more valves between this bulb and the splint-bulb B.

F is a closed bulb connected with the tube A to receive and hold any matter that may exude from the rectum or inner bowel through the tube A and retain the same until such time as it may be properly cared for. This bulb is provided with one or more plugs, as *f*, in the end, and *f'* in any other convenient portion of the same, for the purpose of emptying and flushing the same as is necessary. This receptacle may be connected to or disconnected from the supporting-tube at pleasure, or the splint may be used without the receptacle, if desired, by means of the coupling *f''*.

The splint may be constructed with or without the syringe D D', but it is greatly preferable that it be attached for the purposes set forth.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination, in a rectal splint, of a central supporting-tube having a receiving-bulb at one end; with an annular tube securely attached around the other end, said annular tube perforated for the escape of

liquids, a guard secured around the support-
ing-tube a short distance below said annular
tube, an expansible bulb secured to the cen-
tral tube at its lines of connection with the
5 annular tube and the guard, a syringe con-
nected by a flexible pipe with the annular
tube, and a syringe for inflating the bulb,
substantially as shown and described.

2. The combination, in a rectal splint, of a
10 central tube having a bulb at its lower end,
an annular perforated tube around its upper
end, a guard a short distance from its upper
end, an expansible bulb encircling it between

the annular tube and the guard, a syringe
connected by a flexible pipe with the annu- 15
lar tube, and an inflating-syringe connected
with the bulb; with a fold turned in and down
in the upper end of the central tube, substan-
tially as set forth.

Signed at Coopersville, Michigan, August 20
20, 1895.

PETER C. MEENGs.

In presence of—

JAMES CILLEY,
B. F. TREAT.