UNITED STATES PATENT OFFICE.

GEORGE D. MARSHALL, OF KOKOMO, INDIANA.

INTRA-UTERINE DILATING-PESSARY.


Application filed September 22, 1915. Serial No. 52,037.

To all whom it may concern:

Be it known that I, GEORGE D. MARSHALL, a citizen of the United States, residing at Kokomo, in the county of Howard and State of Indiana, have invented a new and useful Intra-Uterine Dilating-Pessary, of which the following is a specification.

The device forming the subject matter of this application is adapted to be employed for relieving painful menstruation.

The invention aims to provide a structure of this sort which has been inserted into the uterus of a patient will serve to expand the mouth thereof.

Another object of the invention is to provide a device of this type which may be inserted readily and be removed without discomfort to the patient.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing:—

Figure 1 shows the invention in perspective;

Fig. 2 is a top plan;

Fig. 3 is a side elevation;

Fig. 4 is an end elevation;

Fig. 5 is a cross section on the line 5—5 of Fig. 1;

Fig. 6 is a cross section on the lines 6—6 of Fig. 2;

Fig. 7 is a fragmental end elevation showing the device gripped by a pair of sec tioned forceps.

The device forming the subject matter of this application preferably is fashioned from resilient metal throughout and comprises a divided ring 1 at the ends of which are fashioned inwardly projecting fingers 10 to the outer faces of which are secured resilient, diverging arms 2 disposed approximately at right angles to the plane defined by the ring 1. At their outer ends, the arms 2 terminate in convexed heads 4 cooperating to form a blunted point when the arms 2 are pressed together by means of a pair of forceps 3.

In practical operation, the arms 2 are seized by a pair of forceps 3 and are pressed together until the heads 4 cooperate to form a blunted point.

When the structure is in the condition above described, the same is inserted into the mouth of the womb, the ring 1 tending to expand slightly and open the vagina. The heads 4 direct the point of the instrument into the womb, and as the arms 2 separate into, approximately, the positions shown in Fig. 2, the mouth of the womb will be expanded and opened, thus permitting a ready outflow of the products.

The ring 1 preferably is of circular cross section, as indicated in Fig. 5, the arms 2 being of half-circle cross section, as indicated in Fig. 6. However, the cross section of the various parts of the instrument may be altered without jeopardizing the utility of the invention. If, however, the arms 2 are of semi-circular cross section as shown, they may be closed tightly and securely together.

Having thus described the invention, what is claimed is:—

A device of the class described, comprising a divided resilient ring having its ends spaced circumferentially of the ring, the ends of the ring being provided with spaced fingers which project toward the center of the ring, the fingers being equipped adjacent their inner ends with expansible arms disposed approximately at right angles to the plane defined by the ring, the ring constituting means for aiding in spreading the arms apart.

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

GEORGE D. MARSHALL, M. D.

Witnesses:

D. LAWRENCE BORK,
MARGARET BELT.

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