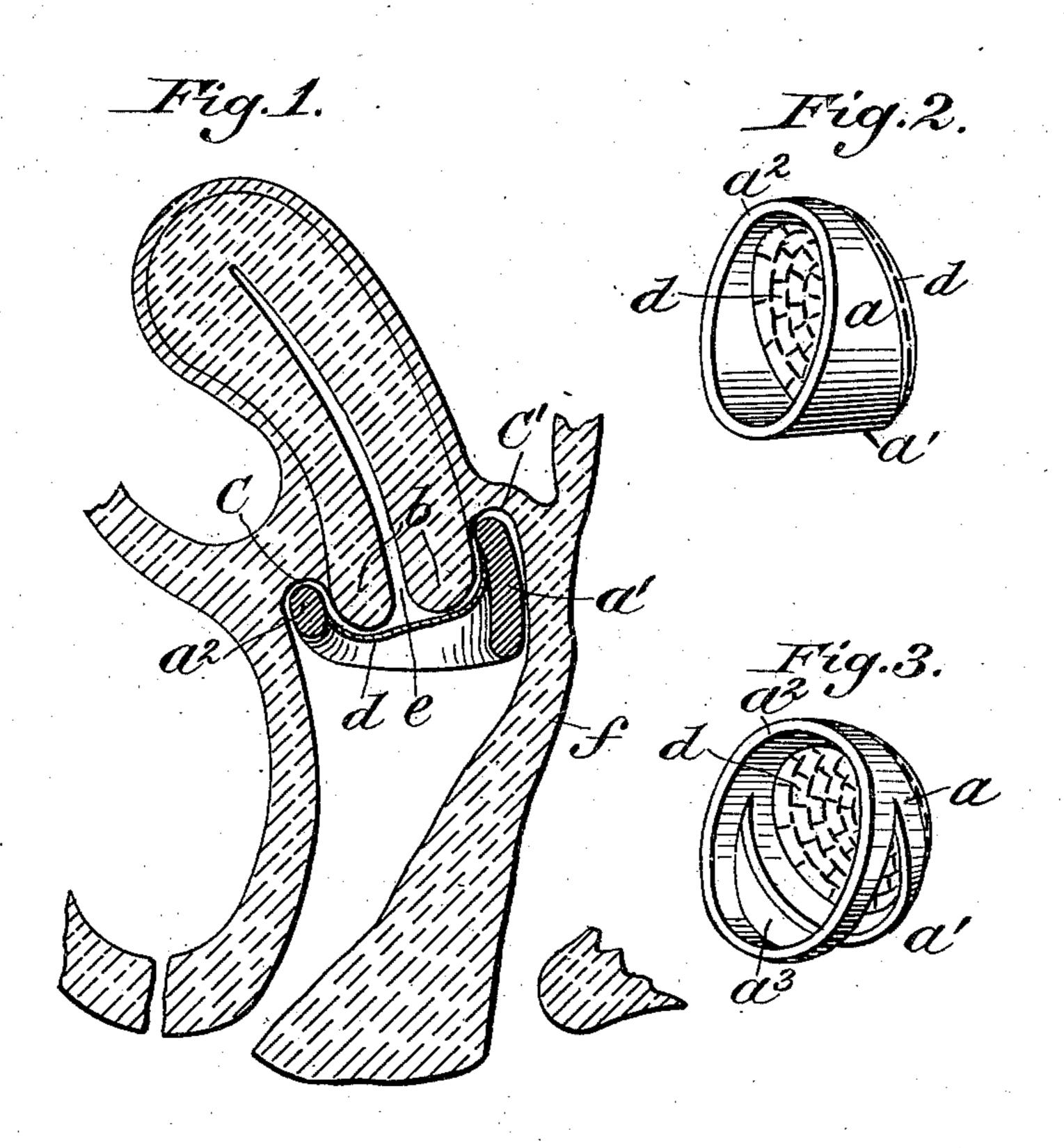
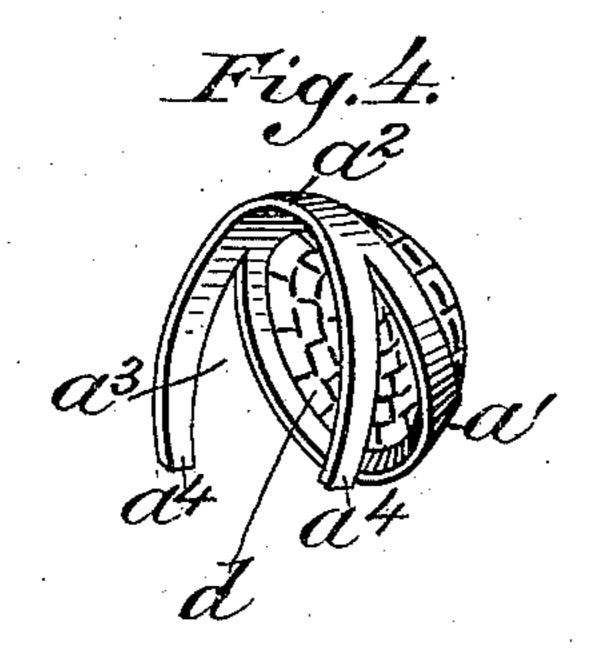
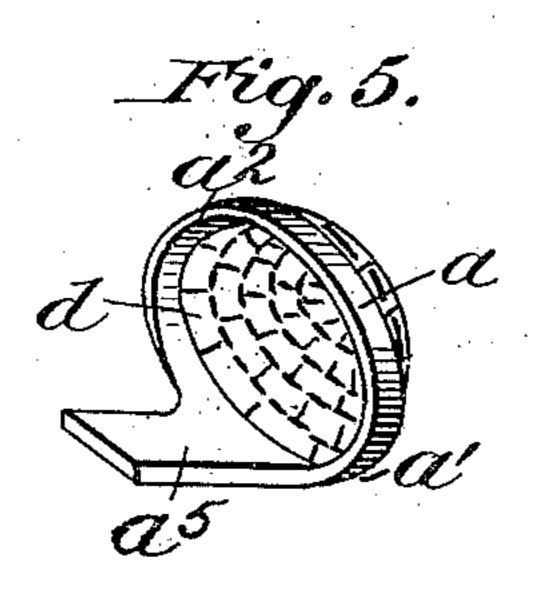
L. KNOPF. PESSARY.

APPLICATION FILED JUNE 19, 1902.

NO MODEL.







Inventor

Witnesses

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PESSARY.

FRECIFICATION forming part of Letters Patent No. 741,345, dated October 13, 1903.

Application filed June 19, 1902. Serial No. 112, 369. (No model.)

To all whom it may concern:

Be it known that I, Leo Knopf, physician, a citizen of the German Empire, residing at the town of Bürstadt, in the Grand Duchy of 5 Hesse, Germany, have invented a new and useful Pessary, of which the following is a

specification.

This invention relates to an improved pessary; and it consists in certain peculiarities of conformation and arrangement hereinafter fully described, by means of which greatlysuperior results are attained as compared with devices heretofore commonly used.

The pessaries hitherto known have exhib-15 ited manifold defects, in that they have a tendency to slip from their position or else serve to constrict the neck of the uterus and cause congestion, or they pinch the walls of the vagina, inducing local irritation. Many at-20 tempts have been made to devise a pessary that would remain firmly seated in position and yet not cause discomfort and injury by reason of constriction, but heretofore without success, for the reason that the axis of the 25 uterus does not coincide with the axis of the vagina, and as a consequence the center of gravity of the pessary when in position is not perpendicular to the point of support. This results in a tendency of the pessary to slip. 30 from its position in a direction parallel to the axis of the vagina. By the present invention this difficulty is overcome by forming the annular wall of the pessary of greater width in that portion adapted to lie on the rear side 35 of the uterus, whereby the upper portion of the wall rests upon the symphysis and the widened portion fills the posterior vault of the vagina, providing a firm seat and offering greater frictional resistance with no attend-40 ant greater pressure. In this manner any tendency of the pessary to shift from its position is effectually obviated.

The advantageous feature of my improved pessary will be made apparent from the ac-

45 companying drawings, in which—

Figure 1 is a sectional view showing the pessary in position, and Figs. 2, 3, 4, and 5 represent several embodiments of my invention.

In the drawings, a is the annular body of 50 the pessary, fitted to encircle the neck of the uterus b. The ring a has its rear portion considerably widened, as at a', while the front | formed in the wider portion thereof, and a

portion a^2 is comparatively narrow. These portions of the ring are of a thickness and width adapted to snugly fit within the vaults 55 c' and c, respectively, and to bear upon the rear and front side of the uterus and the wall of the vagina. This annular body of the pessary is covered by a flexible and preferably elastic membrane d, adapted to overlie 60 the mouth e of the uterus. In order to further increase the frictional resistance to prevent slipping, I may form the widened portion of the wall with a slit a^3 , as shown in Fig. 3, thus providing a space into which the 65 fleshy parts may sink and constitute engaging projections.

In Fig. 4 I have shown a modification in which the widened portion is provided with a lateral cut connecting with the slit (before 70 described) in such manner as to constitute arms a^4 , adapted to embrace the neck of the

uterus.

In Fig. 5 a simple modified form is shown in which the widened portion consists of a lip 75 or projection a^5 , extending from the annular flange of the pessary.

In all the embodiments illustrated it will be observed that the same principle obtains i. e., the provision of greater frictional re- 80 sistance upon the posterior side of the uterus and a utilization to that end of the walls of the relatively deep posterior vault of the vagina.

Having thus fully described my invention, 85 what I claim as new, and desire to secure by

Letters Patent, is—

1. A pessary comprising an annular body having an elongated slit formed in one wall thereof.

2. A pessary comprising an annular body having walls of unequal width and an elongated slit formed in the wider portion thereof.

3. A pessary comprising an annular body having walls of unequal width and a mem- 95 brane serving as a cover for the space inclosed by the annular body.

4. A pessary comprising an annular body having a slit formed in one wall thereof, and a membrane serving as a cover for the space ico inclosed by the annular body.

5. A pessary comprising an annular body having walls of unequal width and a slit membrane serving as a cover for the space inclosed by the annular body.

6. A pessary comprising an annular body

having a slit formed in the wall thereof, and a second slit extending from the first slit to the edge of the wall.

7. A pessary comprising an annular body having a slit formed in the wall thereof, and a second slit extending at an angle from the

central portion of the first slit to the edge of to the wall.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LEO KNOPF.

Witnesses:

JACOB ADRIAN, H. W. HARRIS.