

June 26, 1962

L. F. HAMILTON

Re. 25,191

HEMOSTATIC INSTRUMENT

Original Filed Jan. 28, 1957

Fig. 1.

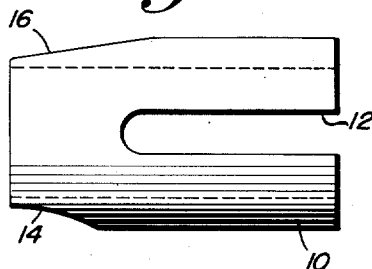


Fig. 2.

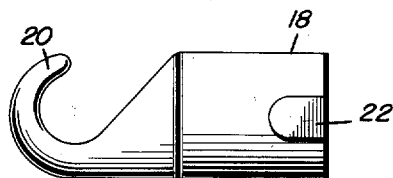


Fig. 3.

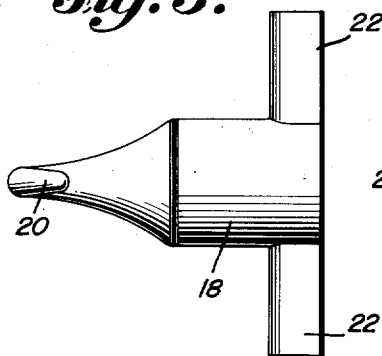


Fig. 4.

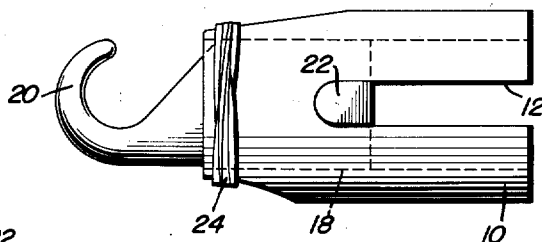


Fig. 5.

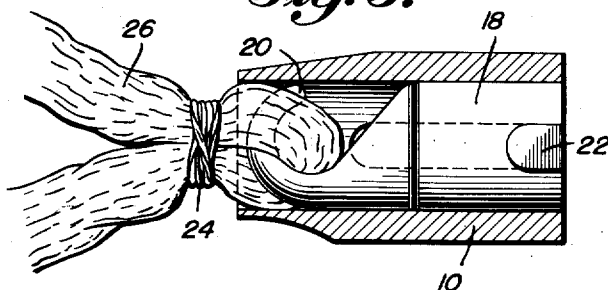
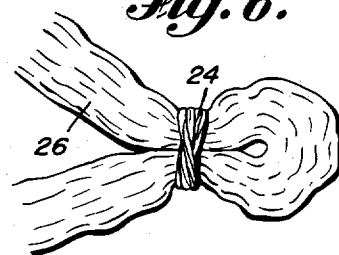


Fig. 6.



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25,191

HEMOSTATIC INSTRUMENT

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Original No. 2,970,596, dated Feb. 7, 1961, Ser. No. 636,585, Jan. 28, 1957. Application for reissue Oct. 26, 1961, Ser. No. 148,798
7 Claims. (Cl. 128—326)

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

This invention relates to hemostatic instruments and more particularly relates to a simple hemostatic instrument for tying the umbilical cord of new born babies.

The invention has for its object to provide an instrument of the character described which is of extremely simple and efficient construction and whose use reduces the time heretofore required for tying the umbilical cord following child delivery.

It is another object of the invention to provide an instrument of the character described consisting of only two parts having clean and simple lines and being of a rugged construction so that damage thereto is highly unlikely.

Further objects and advantages of the invention will become more apparent upon reference to the following specification and claims and appended drawings wherein:

FIGURE 1 is a side elevation of the cylinder of the device of the invention;

FIGURE 2 is a side elevation of the hooked piston of the device of the invention;

FIGURE 3 is a plan view of the hooked piston of FIGURE 2;

FIGURE 4 is a side elevation of the cylinder and piston in an assembled position ready for use in tying an umbilical cord;

FIGURE 5 is a side elevation, partly in section, showing the device of the invention in use; and

FIGURE 6 is a side elevation showing an umbilical cord tied by means of the device of the invention.

Referring to the figures of the drawing, the hemostatic instrument which comprises my invention consists of a cylinder 10 having slots 12 down the sides thereof and having a rounded and tapered end 14. The upper surface 16 of the rounded and tapered end is flattened for a purpose presently to become apparent.

A hooked piston 18 is provided having a hook 20 at one end thereof and having handles or ears 22 extending radially from one end thereof. The diameter of the hooked piston 18 is such that it fits slidably within the cylinder 10 and the handles 22 are received within the slots 12.

Referring to FIGURE 4, the hooked piston 18 is shown mounted within the cylinder 10 which has a rubber band 24 mounted on the curved tapered end thereof. In use, the umbilical cord to be tied is looped over the hook 20 and the hooked piston is then retracted within the cylinder 10 so as to draw the hook 20 into the rounded end of the cylinder, as is shown in FIGURE 5. At this time the attending physician applies pressure with his thumb on the flat surface 16 on top of the cylinder and simply rolls the rubber band off the tapered end of the cylinder onto the umbilical cord 26. This forms a loop which effectively ties the cord. The hooked piston is then extended by means of the handles 22 until the hook 20 projects from the tapered and curved end of the cylinder, and the umbilical cord is removed from the hook. The umbilical cord has then been effectively tied, as shown in FIGURE 6.

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It will be apparent from the foregoing that the hemostatic instrument of this invention is quite simple in construction, is simple in design and susceptible of sturdy construction. The device is easily sterilized. It is small enough so that it may be conveniently carried in a physician's bag if so desired.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment is therefore to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description and all changes which come within the meaning and range of equivalency of the claims are therefore intended to be embraced therein.

What is claimed and desired to be secured by United States Letters Patent is:

1. A hemostatic instrument for tying umbilical cord comprising a cylinder having a tapered end flat on one tapered side, said cylinder being slotted at its other end, a piston member slidably mounted in said cylinder having handle means extending through said slots, and a hook on the end of said piston other than the end which said handle means are attached.

2. A hemostatic instrument according to claim 1 wherein in said flat side of said tapered end is positioned adjacent the open side of said hook.

3. A hemostatic instrument for tying umbilical cord comprising a cylinder having a tapered end flat on one tapered side, said cylinder being slotted at its other end, a piston member slidably mounted in said cylinder having ears extending radially outward therefrom through said slots, and a hook on said piston at the opposite end thereof from said ears and adapted to extend beyond said tapered end of said cylinder.

4. A hemostatic instrument for tying umbilical cord comprising a housing, a movable hook member extendable from and retractable within said housing, and a contractable band received over said housing adjacent said hook member.

5. A hemostatic instrument for tying umbilical cord comprising a cylinder, a piston member slidable in said cylinder and having a hook on one end thereof, and a contractable elastic band on said cylinder.

6. A hemostatic instrument for tying umbilical cord comprising a cylinder, a piston slidable in said cylinder and having a hook extendable from one end of said cylinder, means for moving said piston through said cylinder, and a contractable elastic band received over said cylinder adjacent said one end.

7. A hemostatic instrument for tying umbilical cord comprising a cylinder, a piston slidable in said cylinder and having a hook extendable from one end of said cylinder, handle means on said piston for moving said piston through said cylinder, and a contractable elastic band received over said cylinder adjacent said hook.

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