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L. C. DWOYER
SURGICAL INSTRUMENT
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2,355,209

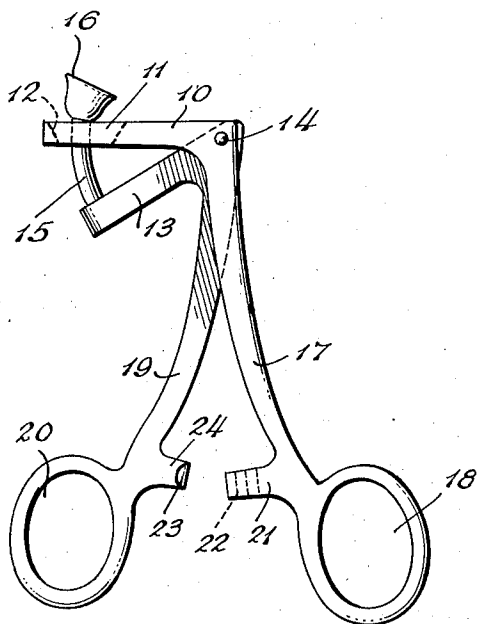


Fig. 2.

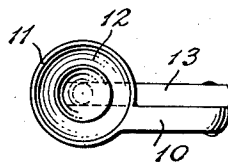


Fig. 1.

Fig. 3.

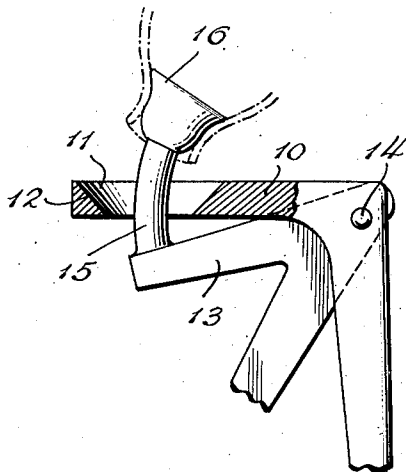
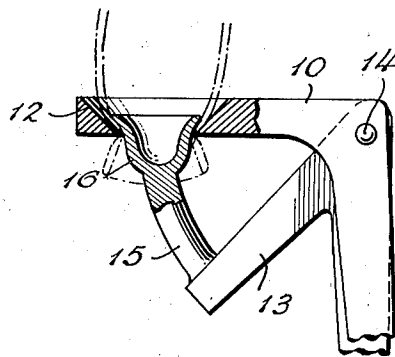


Fig. 4.



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SURGICAL INSTRUMENT

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3 Claims. (Cl. 128—346)

The present invention relates to improvements in surgical instruments and more particularly to improvements for use in performing circumcisions.

An object of my invention is to provide a novel circumcision instrument which is of simple and durable design and is easily manipulated.

Another object of my invention is to provide a novel circumcision instrument which will apply a firm clamping pressure to an intended circumferential area of the prepuce, thus expediting the labor of the surgeon and yet will not subject the prepuce to a rupturing action.

Another object of my invention is to provide a surgical instrument wherein the prepuce is held in a position for operation in such a manner that there will be no appreciable loss of blood by the severing of the prepuce.

Another object of my invention is to provide a surgical instrument which can be locked in any desired position, thus facilitating the handling of the device and hence the operation.

Other objects and advantages of my invention will be hereinafter described and the novel features thereof defined by the appended claims.

In the accompanying drawing an embodiment of my invention is shown.

Fig. 1 is an elevational side view of a surgical instrument according to my invention for use in performing circumcisions.

Fig. 2 is a plan view of the instrument of Fig. 1.

Fig. 3 is a longitudinal section of a part of a surgical instrument according to Fig. 1 on an enlarged scale; and

Fig. 4 is a longitudinal section of a part of a surgical instrument according to Fig. 1 illustrating the position of the various members when applying a clamping pressure to the prepuce.

With reference to the drawing, wherein like reference characters indicate like parts throughout the several figures thereof, my device comprises an arm 10 in which a circular opening 11 is formed. The opening 11 is provided with a frusto-conical wall 12 which constitutes a clamping edge or seat. Arm 10 may be made of any suitable material, for example, metal, plastic or the like. A lever or member 13 is pivotally connected to arm 10 by means of a pivot 14. Member 13 carries a stem 15 which may be integral with member 13 or be secured to it by any suitable means. Stem 15 serves as carrier for a cup-shaped clamping portion 16 which may be hollow as shown in Fig. 4. The lower end of cup 16 may be formed as the frustum of a cone and sets into clamping seats 11 and 12. Stem 15 extends

through opening 11 and is arched to form a section of the periphery of a circle drawn about pivot point 14. I hereby accomplish that lever 13 will pull clamping portion 16 supported by stem 15 in such direction as to draw the clamping portion evenly toward the clamping seat when lever 13 is pivoted around pivot 14.

In order to pivot the arm 10, I have provided a scissor type handle 17 ending in a loop 18 for receiving the digits of the hand and a second scissor type handle 19 ending in a loop 20. Handle 17 is integral with arm 10 but, of course, it is also possible to provide a separate handle fastened by any suitable means to arm 10. Handle 19 is integral with lever 13 but a separate handle secured to the lever may be used. It is obvious from the drawing that handles 17 and 19 cooperate in such a manner that a relative movement of those handles will cause clamping portion 16 to move toward its clamping edge or away from it, depending upon whether handles 17 and 19 are moved outwardly or inwardly. Due to the arched shape of stem 15, clamping portion 16 will sit evenly upon its clamping seat when the surgical device is closed as illustrated in Fig. 4.

Handle 17 is provided with an extension 21 having several notches 22. These notches 22 cooperate with a nose 23 provided on an extension 24 of handle 19. Notches 22 and nose 23 serve to lock the handles 17 and 19 and hence the clamping portion of the device in any desired position. I have found that such locking means facilitate the labor of the surgeon and thus shorten the period of pain and inconvenience of the patient caused by the operation.

A surgical device according to my invention is to be used as follows:

The prepuce as shown in dotted lines in Figures 3 and 4 is slipped over a cup 16 while the glans penis (not shown) is resting in the cup. Then the clamping device is gently closed whereby the prepuce is pulled toward the clamping seat until finally a circumferential area of the prepuce is firmly and uniformly held between the walls 12 of the opening 11 and clamping portion 16 as illustrated in Fig. 4. The prepuce is now in a position in which the operation can be conveniently carried out.

The invention may be embodied in other specific forms without departing from the spirit of the invention or the essential characteristics thereof. The present embodiment is to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims.

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

1. In a surgical instrument for use in performing circumcisions, in combination an arm having an opening providing a clamping seat, a clamping element extending through said opening and having a portion cooperating with said clamping seat for applying a clamping pressure to a circumferential area of the prepuce and means for pulling said clamping element in such a direction as to draw the clamping portions thereof evenly toward said clamping seat, said means comprising a member pivotally connected to said arm having said clamping seat and carrying said clamping element and a handle for pivoting said member about its pivot point.

2. In a surgical instrument for use in performing circumcisions, in combination an arm having an opening providing a clamping seat, a member pivotally connected to said arm having said clamping seat, a clamping element having a portion cooperating with said clamping seat and a stem extending through the opening of said

arm, one end of said stem being fastened to said portion and the other to said member and a handle for pivoting said member about its pivot point thus pulling said clamping element in such direction as to draw the clamping portion thereof evenly toward said clamping seat.

3. In a surgical instrument for use in performing circumcisions, in combination an arm having an opening providing a clamping seat, a member pivotally connected to said arm having said clamping seat, a clamping element having a portion cooperating with said clamping seat and an arched stem extending through said opening of said arm, one end of said arched stem being fastened to said portion and the other to said member, a scissor-type handle fastened to said member and a second scissor-type handle cooperating with said first handle fastened to said arm for pivoting said member about its pivot point thus pulling said clamping element in such direction as to draw the clamping portion thereof evenly toward said clamping seat.

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