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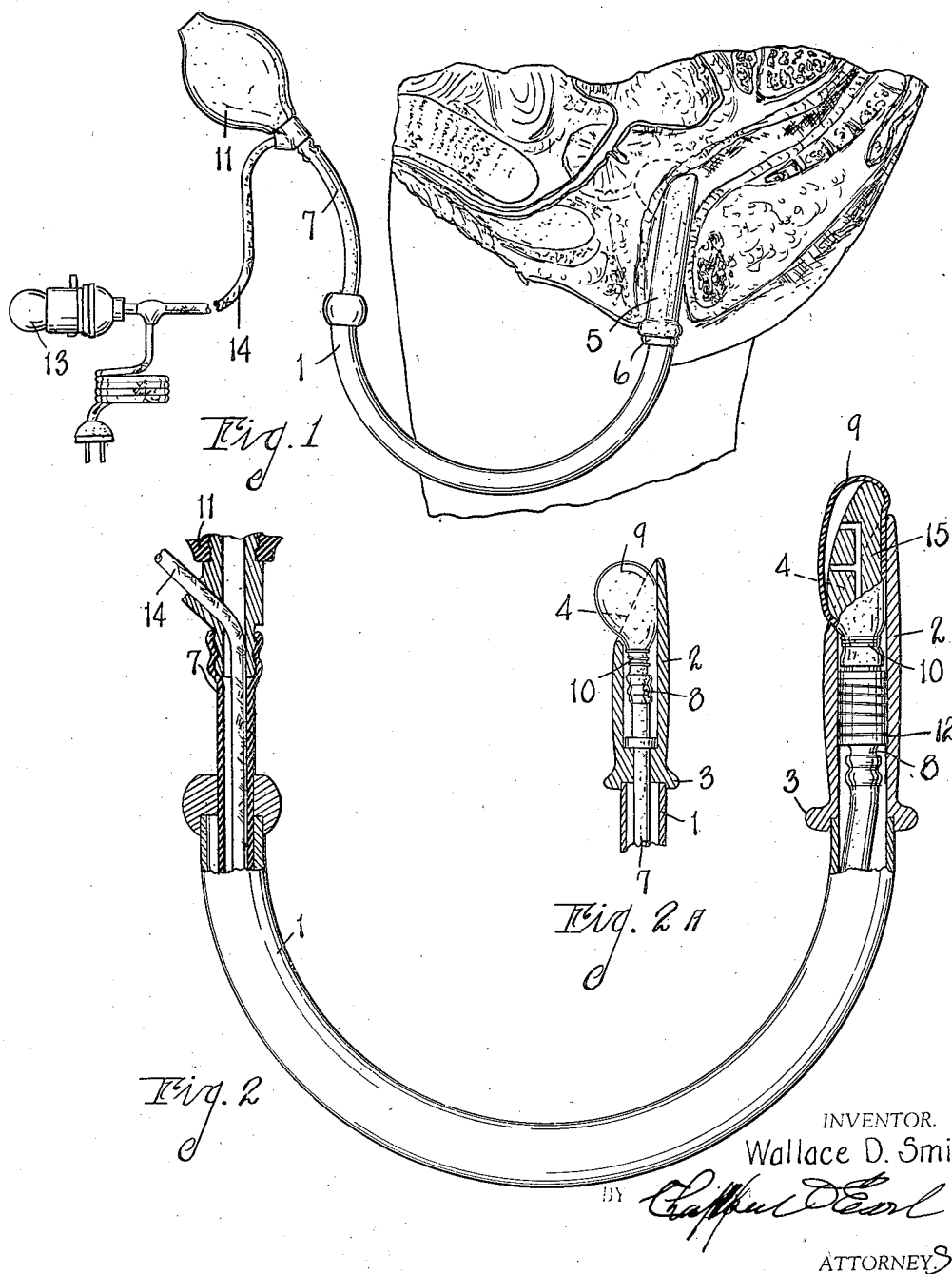
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2,101,273

MASSAGE INSTRUMENT FOR TREATING THE PROSTATE GLAND

Filed Jan. 9, 1935.

2 Sheets-Sheet 1



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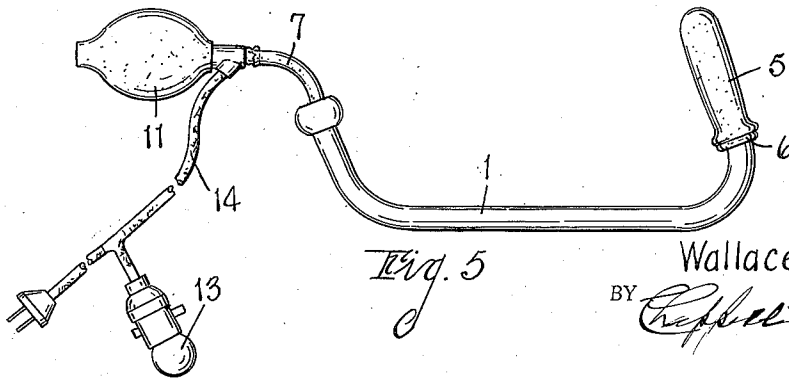
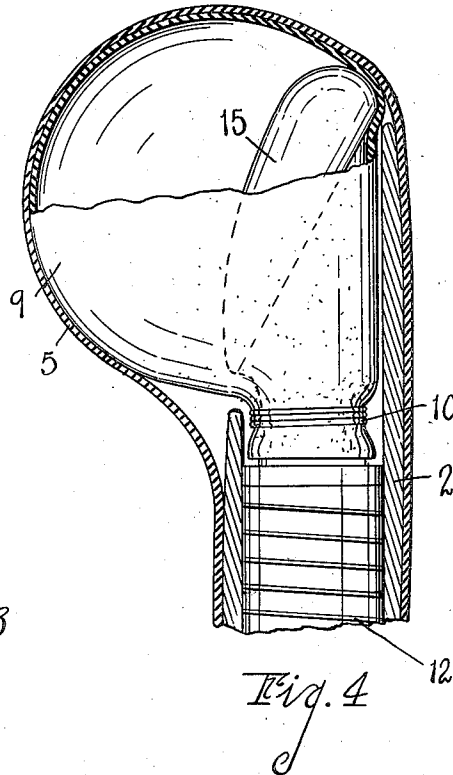
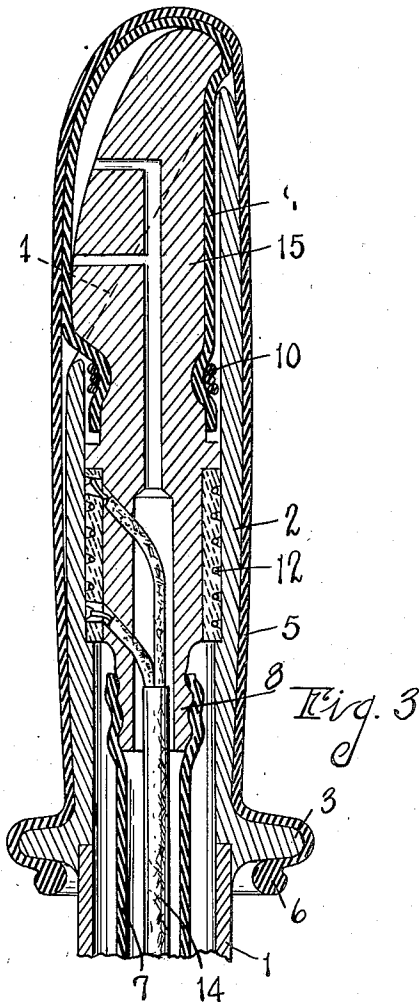
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MASSAGE INSTRUMENT FOR TREATING THE PROSTATE GLAND

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2 Sheets-Sheet 2



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2,101,273

MASSAGE INSTRUMENT FOR TREATING
THE PROSTATE GLAND

Wallace D. Smith, Kalamazoo, Mich.

Application January 9, 1935, Serial No. 935

10 Claims. (Cl. 128-64)

This application for patent is a continuation in part of my patent application for Massage instrument for treating the prostate gland, filed September 12, 1929, Serial No. 392,057, and of my patent application filed February 15, 1932, Serial No. 593,035, for Massage instrument for treating the prostate gland, which applications applicant has abandoned except for this continuation in part.

10 The objects of the invention are:

First, to provide an effective and simple means for massaging the prostate gland.

Second, to provide pneumatic means for manipulating this gland.

15 Third, to provide an improved structure which is introduced into the rectum for the purpose.

Fourth, to provide such a structure which effectively locates the massage applicator.

20 Fifth, to provide in such a structure an improved means for mechanical massage in connection with a pneumatic means.

Sixth, to provide in such a structure an improved and auxiliary means for mechanical massage in connection with a pneumatic means.

25 Seventh, to provide in such a structure an improved arrangement of heater element.

Objects pertaining to details and economies will appear from the description to follow. A preferred embodiment of my invention is illustrated in the accompanying drawings, in which:

30 Fig. 1 is a vertical sectional view through portions of the body of a person with my improved massage instrument (in full lines) in place. The pneumatic action is indicated by dotted lines.

35 Fig. 2 is an enlarged detail fragmentary broken elevation of the instrument embodying the features of my invention partially in section to show details with the pneumatic rubber bulb and electric control broken away.

40 Fig. 2-A is a view of the tip with heater and auxiliary inner massage tip omitted.

Fig. 3 is an enlarged detail, partially expanded, showing the arrangement and assembly of the parts at the applicator end including the pneumatic connections and the heater element.

45 Fig. 4 is an enlarged vertical detail longitudinal sectional view showing the expanded position of the pneumatic massage elements, the lower part being broken away.

50 Fig. 5 is an elevation of a modified form in which the curved tube has a horizontal portion which facilitates the mechanical manipulation.

The parts will be identified by their numerals of reference which are the same in all the views.

55 1 is the main body of the instrument which is

in the form of a comparatively heavy, curved, tubular body connection. This terminates in the applicator massage tip 2 which is tubular in form and provided with a projecting locating stop collar 3. The upper end of the applicator tip is cut on the diagonal at 4 towards the front side to form an opening for the manipulation of the soft rubber expansible part within by which the pneumatic massaging is effected. Around the applicator tip 2 is a soft rubber casing 5 which is like a finger cot of soft rubber. This is stretched over the tip 2 and collar 3 and retained by heavy rubber ring 6 embracing the said collar 3. This is readily removed for cleaning or renewal.

15 Within the curved tube body 1, which is either of metal or some material like hard rubber, is disposed the air supply rubber tube 7 which embraces a metallic or hard rubber tip 8 which is externally threaded at its outer end. Over this is disposed a small rubber sack 9 secured in place by a soft rubber band or strand 10 wrapped around and clamping the bag to the threaded tip. The sack 9 is of soft rubber (being in reality a small rubber balloon of extra weight) and extends well up a little beyond the open end of the applicator tip 2 so that when it is filled with air it projects out laterally in the form of a bulb as is indicated by dotted lines in Fig. 1 and in full lines in Fig. 3. The bulb is folded up inside the outer casing, as seen in Fig. 3.

20 Projecting upwardly from the rubber tube connection 8 is a rounded inner mechanical auxiliary massage applicator 15 through which extend the perforations for delivering and withdrawing the air. This is of such dimension that it is supported within the main applicator tip 2 and is adapted to massage within the distended portion 9, or it may be used without the distention but is especially adapted to manipulate parts of the prostate gland opposite and is readily movable within the distended portion 9 for that purpose. In Fig. 2-A the auxiliary massage tip or element and heater are omitted.

25 The tube 7 projects from the main body 1 and is provided with a manipulating air bulb 11 which is provided with the usual check valve means like the usual air bulb of an atomizer. This introduces air under pressure to the tube 7. This has a modified connection with passage for the electric wire or cable.

30 The form of this main tube 1 is shown modified in Figure 5 with a horizontal portion, as it greatly facilitates the manipulation of the device when the person is lying down or sitting down, as the

case may be. I provide the same with a rounded knob of considerable size at the outer end as a handle or lever to facilitate manipulation. This is very compact and facilitates lateral movement of the tip of the entire applicator.

5 Around the shank of the tubular connection within the applicator shell 2, I dispose a heater coil 12 of resistance wire to constitute a heating element which is regulated by the usual controls, 10 an electric lamp 13 with the connection 14 disposed within the main tube 1 in proximity to the pneumatic rubber tube connection. Any control means on the outside may be used so that resistance is interposed to regulate the temperature of the heater coil 12. Where conditions are regular, no control is necessary as the construction can be provided of correct capacity.

The user of this instrument, it will be readily understood, introduces it from the front of the 20 body up into the rectum and the upper end of the applicator projects to a point opposite the prostate gland. On the manipulation of the bulb 11 the rubber tip is disposed to project a yielding pressure against the prostate gland, massaging 25 the same by the mere manipulation of the hand bulb 11. A very thorough and moderate treatment is thus secured. The outer casing is removable and can be very readily cleansed and also can be very readily renewed. Likewise the 30 sack 9 can be very readily renewed.

A single rubber sack might be so designed as to do the work, but I prefer the double tube structure as here illustrated for the reasons indicated. While I have specified air, any gas or 35 fluid could be used.

The internal auxiliary applicator may be manipulated within the distended sack and afford a positive and strong mechanical massage definitely located on the prostate gland as may be desired or required, the distended sack facilitating 40 such manipulation. This mechanical feature may be eliminated, at the same time eliminating the effect or advantage of it.

The heater I have provided I intend to claim 45 specifically. A quite effective application of heat is secured where electricity is not available by submerging the whole applicator in hot water and allowing it to become highly heated, and, of course, sterilized. The parts being of polished 50 aluminum alloy very effectively hold the heat. When cooled to a degree tolerated by the tissues, it may be applied and a considerable effect and consequent advantage of heating may be secured.

The words "front", "rear", "upwardly", "top" 55 and "horizontally" are used in this application as relating to the person of the user and are all relative terms.

I wish to state that I desire to claim the same in its specific form as illustrated, as it has proven 60 very effective in that shape, and I also desire to claim the invention broadly as pointed out in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a massage instrument, a tube provided with a stop collar forming a shouldered applicator tip at one end of the tube, said tube having 70 a body portion adapted to be disposed between the legs of the user when the applicator tip is inserted in his rectum, the applicator tip end of the tube being apertured at one side of its end, which side faces the body portion of the instrument, a rubber tube connection within the said 75 main tube with a bulb for applying fluid pressure,

an inner tip with a flexible rubber sack adapted to project through the end of said applicator tip, a detachable outer soft rubber casing adapted to fit the outside of the applicator tip and embrace the stop collar thereon, an inner core or auxiliary 5 applicator having a passage therethrough and having a rounded portion projecting within the said flexible rubber sack for mechanical massage within the sack, and a heater element coil disposed within the said tip around the tubular connection and suitable electric connections disposed 10 within the said tube with suitable controls for regulating the temperature thereof.

2. In a massage instrument, a tube provided with a stop collar forming a shouldered applicator tip at one end of said tube and apertured at one side of its end, a rubber tube connection within the said main tube with a bulb for applying fluid pressure, an inner tip with a flexible rubber sack adapted to project through the end of the said applicator tip, a detachable outer soft rubber casing adapted to fit the outside of the applicator tip and embrace the stop collar thereon, an inner core or auxiliary applicator having a passage therethrough and having a rounded portion 25 projecting within the said flexible rubber sack for mechanical massage within the sack, a heater element coil disposed within the said tip around the tubular connection, and suitable electric connections disposed within the said tube with suitable controls for regulating the temperature thereof. 30

3. In a massage instrument, a tube provided with a stop collar forming a shouldered applicator tip at one end of said tube and apertured at one side of its end, a rubber tube connection through the body of said tube with a bulb for applying pressure, an inner tip with a flexible rubber sack connected thereto and adapted to project through the end of the said applicator 40 tip, a detachable outer soft rubber casing adapted to fit the outside of the applicator tip and embrace the stop collar thereon, and an inner core or auxiliary applicator having a passage therethrough to the interior of said inner rubber sack and having a rounded portion projecting within the said flexible rubber sack for mechanical massage within the sack. 45

4. In a massage instrument, a tube provided with a stop collar forming a shouldered applicator tip at one side of said tube and apertured at one side of its end, a rubber tube connection through the body of said tube with a bulb for applying pressure, an inner tip with a flexible rubber sack connected thereto and adapted to project through the end of the said applicator 55 tip, and a detachable outer soft rubber casing adapted to fit the outside of the applicator tip and embrace the stop collar thereon. 50

5. In a massage instrument for treating the prostate gland, a tubular applicator with its tip end apertured at one side by an opening cut at an angle, an expansible rubber sack within the applicator to expand and protrude through the said aperture, an inner core or auxiliary applicator having a passage to the interior of said inner rubber sack and having a rounded portion projecting within the said flexible rubber sack for mechanical massage within the sack, and an outer rubber casing for said parts and having 70 suitable retainer means.

6. In a massage instrument for treating the prostate gland, a tubular applicator with its tip end apertured toward the end, an expansible rubber sack within the applicator to expand and 75

protrude through said aperture, an inner core or auxiliary applicator having a passage there-through and having a rounded portion projecting within the said flexible rubber sack for mechanical massage within the sack, and an outer rubber casing for said parts and having suitable retainer means.

7. In a massage instrument for treating the prostate gland, a tubular applicator with its tip end apertured by an opening cut at an angle oblique to the axis of the tube, an expansible rubber sack within the applicator to expand and protrude through the said aperture and generally toward one side, and an outer rubber casing for said parts and having suitable retainer means.

8. In a massage instrument for treating the prostate gland, a tubular applicator with its tip end apertured at one side by an opening cut at an angle to its axis, an outer elastic casing, and an expansible soft rubber sack within the applicator to expand and protrude through the said aperture, an inner core or auxiliary adjunct to the applicator having a passage therethrough in the interior of said inner rubber sack and having a rounded portion projecting within the said

flexible rubber sack for mechanical massage within the sack, and into said outer elastic casing embracing the said tip.

9. In a massage instrument for treating the prostate gland, a tubular applicator with its tip end apertured at one side by an opening cut at an angle to its axis, an outer elastic casing, and an expansible soft rubber sack within the applicator to expand and protrude generally toward one side through the said aperture and into said outer elastic casing embracing the said tip.

10. In a massage instrument, a body tube portion having a hollow massage applicator tip open at the end, an extended elastic sack surrounding a flexible tube connection for applying pressure, an inner perforated auxiliary massage tip having a rounded portion projecting into said sack for mechanical massage within the sack adapted to project through the hollow tip, and a detachable inner soft rubber sack adapted to embrace the said auxiliary massage tip whereby massage by manipulation of the tip out of contact with the tissues and within the sack is provided for.

WALLACE D. SMITH.