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**Budapest**(54) **Elektromechanikus szexuális stimuláló eszköz**

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(54) **ELECTRO-MECHANICAL SEXUAL STIMULATION DEVICE**

ELEKTROMECHANISCHE SEXUALSTIMULATIONSVORRICHTUNG

DISPOSITIF DE STIMULATION SEXUELLE ELECTRO-MECANIQUE

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## Description

**[0001]** The present invention relates to the field of sexual paraphernalia. In particular, the present invention provides an electro-mechanical device for sexual stimulation intended for use by women either as an auto-erotic aid or during intercourse.

**[0002]** There are numerous devices available for use by women for sexual stimulation. They include products that are entirely manually operated, and achieve stimulation by shape and/or texture, and products that are provided with internal motors that achieve stimulation by shape, texture and vibration. These latter devices, commonly referred to as vibrators, are usually phallus shaped, and are provided with a handle for manipulation in and around the genital region by a woman. As such, they can generally be used to stimulate only one area at a time. However, it is known that there are at least three distinct effective genital stimulation areas in most women, namely the clitoris and surrounding skin, the inner surface of the vagina and the so-called G-spot, a nerve reflex area inside the vagina, along the anterior surface.

**[0003]** The applicant is aware of several devices that can be used to stimulate the G-spot, such as that shown in U.S. Patent No. 5,853,362. This device is generally hook-shaped, so that if grasped by its shaft, can be inserted into a woman's vagina, and used to massage the G-spot area. Again, this type of device is effective for stimulating only one, and perhaps two (if one considers that stimulation of the G-spot will result in some stimulation of the vaginal wall) areas at a time. The device illustrated is US5853362 is, like many similar devices, of fairly hard surface construction.

**[0004]** US2004/0230093 A1 which discloses a device according to the preamble of claim 1, illustrates a device with a handle that is generally U-shaped with an inner arm terminating in a curve for stimulating the G-spot, and an outer arm with a gripping handle and a textured face for clitoral stimulation. The outer arm of the device may be provided with a cavity into which a small self-contained "bullet" shaped vibrator may be inserted. Essentially, then, this device may be used as a manually movable clitoral vibrator, with an arm extending into the vagina: No direct vibration means effective to stimulate the vagina or G-spot during intercourse are provided.

**[0005]** Anonymous: "Natural contours (Ultimate, Superbe, Magnifique)", URL: <https://web.archive.org/web/20020408114635/http://www.natural-contours.com> discloses a female solo stimulation/muscle toning device for serving dual pleasure points.

**[0006]** While the invention is defined in the independent claim, further aspects of the invention are set forth in the dependent claims, the drawings and the following description.

**[0007]** The present invention seeks to overcome the shortcomings of the prior art by providing a sexual stimulation vibrator appliance that is a significant advance over known vibrators. The vibrator of the present inven-

tion is designed to provide vibratory stimulation simultaneously to the clitoris, G-spot and vagina. Moreover, the vibrator of the present invention can be comfortably worn during intercourse unlike the devices of the prior art. The vibrator of the present invention may be provided with an internal power source that provides power to two independently operating motors. Moreover, the motors can be operated to create a harmonic vibration in the entire device. The vibrator of the present invention, moreover, may be provided with an internal skeleton of either molded plastic and/or pre-shaped metal (such as a memory alloy) so that use of a very soft silicone body will not result in an appliance that can't hold its shape.

**[0008]** In a broad aspect, then, the present invention relates to a device for use during intercourse by a female for sexual stimulation according to claim 1.

**[0009]** In another broad aspect, then, the present invention relates to a sexual vibrator having a first arm including vibrating means, a second arm including vibrating means, and a slender generally U-shaped member connecting the two arms.

**[0010]** The inner arm, in a preferred form, terminates in a generally teardrop-shaped pad including a rounded inwardly directed protuberance.

**[0011]** The outer arm preferably widens from said U-shaped member to its extremity, and has a smooth inner surface adapted to contact the clitoris.

**[0012]** The device may be provided with a resilient inner skeleton covered with a soft, pliable outer layer.

**[0013]** The outer arm may comprise a clitoral pad that is substantially rectangular, and tapers to meet the U-shaped member. It is of a width such that it may be tucked between the labia majora, in contact with the clitoris.

**[0014]** Moreover, preferably at least one of said inner and outer arms is provided with a vibratory motor.

**[0015]** Most preferably, each of said inner and outer arms is provided with a vibratory motor.

**[0016]** Accordingly, each device will be provided with power means.

**[0017]** The power means may be a rechargeable battery. The rechargeable battery is located in said outer arm.

**[0018]** Accordingly, the outer arm includes an outlet for recharging said battery, and a recharging circuit.

**[0019]** Furthermore, the outer arm may be provided with switch means. The switch means is capable of actuating said motors in more than one on mode.

**[0020]** In a most preferred embodiment, the device has a silicone outer layer, and a resilient plastic inner skeleton.

**[0021]** In drawings that illustrate the present invention by way of example:

Figure 1 is a perspective view of a first embodiment of the device of the present invention;

Figure 2 is a side view of the device of Figure 1;

Figure 3 is a cross-sectional view through line 3-3 of Figure 2;

Figure 4 is a front view of the device of Figure 1;  
 Figure 5 is a rear view of the device of Figure 1;  
 Figure 6 is a perspective view of a second embodiment of the device of the present invention;  
 Figure 7 is a side view of the device of Figure 6, also showing a surface texturing in the clitoral stimulation area;  
 Figure 8 is a cross-sectional view through line 8-8 of Figure 7;  
 Figure 9 is a front view of the device of Figure 6;  
 Figure 10 is a rear view of the device of Figure 6; and  
 Figures 11a to 11o are a series of photographs and schematics showing details of alternate embodiments.

**[0022]** Referring now to Figure 1, the present invention provides a vibrator/sexual stimulation device that is anatomically shaped, and very flexible. It is shaped to provide an inner arm 1 that terminates in a bulbous teardrop-shaped pad 2 especially visible from Figures 2 and 5. This pad is intended to lie against the region of the vagina near which the G-spot is located. Arm 1 narrows to a slender U-shaped transition portion 3 and then widens into a broad, flat clitoris stimulator pad 4. The clitoris stimulation pad 4 is fairly flat (as can be seen in Figure 2), and dimensioned in width to fit within the labia majora (see Figure 4). It will be understood, then, that in use, the clitoral pad 4 is tucked between the labia majora, against the clitoris, and will provide a direct vibration stimulus to the clitoris. The inner arm 1 meanwhile, is inside the vagina, drawn up against the G-spot, and also vibrating. Moreover, it will be understood that a harmonic pulsation will occur in the entire device due to the interaction between the vibrations produced by each motor.

**[0023]** It will also be noted that because the inner arm 1 is drawn forward in use and the U-shaped transition portion is quite thin and narrow, emplacement of the device will not interfere with ordinary sexual intercourse.

**[0024]** Referring now to Figure 3, it will be observed that the device includes an outer skin 5 of silicone, vinyl, rubber, or other suitable material, and an inner core 6 comprising a skeletal core made from a shape memory alloy like Ti Ni, or from a less expensive material, such as a thermoplastic elastomer, or a moulded nylon or polyurethane shell. Core 6 must be flexible enough to withstand fairly vigorous use, resilient enough to consistently exert a forward pressure on the G-spot and hard enough to protect the components and circuitry located inside it. Located in a first shell 7 at the end of the inner arm 1 toward the tear-drop shaped G-spot pad 2, a longitudinally oriented first vibration motor 8, provided with a small rotating eccentric weight (not shown). Wiring 9 connects the first motor to a second motor 10 located in a shell 71 at the other end of the generally U-shaped core 6, and then further wiring connects two motors to a power source comprising a battery 16 such as an AA or AAA NiCd, a switch 11, preferably a three-position sliding switch, located near the end of the device so that it can be manip-

ulated between an 'off' position and a pair of 'on' positions; and a recharging circuit 12 and outlet 13. As illustrated, recharging outlet 13 may be accessible from the outside, but it may be covered with a removeable plug. Alternately, recharging circuit 12 may be an induction recharger, not requiring metal to metal contact. It will be understood, moreover, that the number, orientation, and strength of the motors, will be a matter of choice to one skilled in the art. If desired, two or more motors may be provided at each end of the device, or only one motor at each end, or any combination. Furthermore, the switch may be provided with any number of 'on' settings to power any combination of the motors at the same or different levels or direction of rotation. This will create variable harmonic wave patterns in the device, so that a harmonic wave pattern pleasing to the user may be determined on an individual basis. Moreover, the switch may be a push button, a dial, or any other suitable type of switch. Furthermore, the shell component itself may be made from a bimetallic alloy capable of 'twitching' upon application of a current, which may be applied in any desired pattern.

**[0025]** It will also be understood that the device of Figures 1 to 5 may be manufactured with a non-rechargeable battery, and so not be provided with a recharging circuit and outlet. Accordingly, the unit may be considered disposable after the battery is completely discharged. Alternatively, replaceable batteries may be used. In this case, the device should be provided with a re-sealable access means, such as a peel-back silicone layer, to access the batteries.

**[0026]** Referring now to Figures 6 to 10, a series of views similar to those shown in Figures 1 to 5 is illustrated, for a second embodiment of the device of the present invention. The principle difference in the two devices is that in the case of the second device, the clitoral pad is elongated, and formed as a handle for manual manipulation. The inner arm 1 is provided with first vibrator motor 8. It is not necessary that the wiring 9 to the inner arm motor be contained within the core 6 or shell 7, as it will be covered with a resilient layer of silicone or like material.

**[0027]** The core 6, as shown in Figure 8, is embodied in the U-shaped curved portion 3 and terminates in the open-ended shell portion 71 containing a second vibrator motor 10. As can be seen from Figure 8, the interior volume of the device is then occupied by a rechargeable battery 16, followed by a further open shell portion 17, housing a further vibrator motor 18, a recharge circuit/outlet, and switch. It will be understood that the shell portion may, if desired, be manufactured as one continuous piece, housing all three motors, the battery, the recharge circuit and the switch. As can be seen in Figure 7, the inner wall of the device in the clitoral pad area 41 may be textured to provide enhanced stimulation.

**[0028]** Since three motors are used in the second embodiment of the device of the present invention, very substantial harmonic wave effects can be created by simultaneous activation of the motors.

**[0029]** It will be understood, moreover, that many var-

iations of the device of the present invention are possible, without departing from the spirit of the invention.

**[0030]** Numerous variants and/or features of the device of the present invention and the method of manufacture are described in the following paragraphs, which refer to the photographs and schematics appended hereto as Figures 11a to 11o.

**[0031]** There are four proposed versions of the present invention:

- "Lite", which is shaped like a "C", and in respect of which the preferred embodiment of Figures 1 to 5 above, has been described;
- "Medium", which is shaped like a "C", and has a small handle, and in respect of which the preferred embodiment of Figures 6 to 10 above, has been described;
- "Full", which is made of the "Medium" version, plus has two vibrating membrane arms that come from the central part of the "C" and cover the labia majora and meet as a contoured bulb over the fourchette, perineum and the anus; and
- "Heavy", which is made of the "Full" version, plus has an anal vibrating plug.

**[0032]** The "Lite" version may have the following characteristics:

made from a flexible silicone (durometer 4 to 50) or urethane rubber compound that is appropriate for temporary insertion into the vagina. This material can be clear or opaque or translucent of any colour.

**[0033]** The device may be formed by a molding process so that it is smooth on the outer surface, except where dimpling, texture or many small protrusions are desired to enhance the stimulation effect of the device.

**[0034]** "Lite" version may be composed of three essential parts:

1. **One:** The clitoral pad is shaped on the inside surface to conform to the female anatomy to best provide contact to the clitoris and surrounding area. It may be oval, round or triangular with smooth rounded edges. The inside surface may be smooth, textured, dimpled or have many small protrusions to enhance the stimulation effect of the device. The clitoral pad is inserted into the clitoral area by parting the labia majora.

2. Because of this unique flexible "U" feature, the device does not require any straps or attachments to hold it in place. The clitoral pad will stay in place under all reasonable circumstances before, during and after intercourse. It is easily removed by hand when desired. All devices known to the applicant that allow intercourse either attach to the penis to provide vibration stimulation to the woman during intercourse, or they are held above the clitoral area by

the means of an undergarment or one or more straps that go around the woman's legs and/or waist.

3. The clitoral pad has at least one vibrating mechanism that can achieve frequencies between 240 and 10,000 RPM. This may be a cylindrical and/or a disk off-centre weight vibrating motor or piezo buzzer. The vibrating mechanism is designed to provide sexual stimulation to the female and also to the male during intercourse or close proximity. The axis of the vibrations may be planar or perpendicular to the inside surface of the clitoral pad. Vibrating mechanism is located inside the clitoral pad and is designed to transmit its vibrations through the pad to the user of the device. The vibrations may be varied in a variety of fashions including intensity, frequency and to set up standing waves and rhythms to increase sexual satisfaction. These vibrations can be controlled with a microprocessor and can be altered by the user selecting various modes of operation. The modes of operation can be pre-programmed or can be modified through the use of a "USB" port from a standard P.C. or radio or I.R. communications or voice or clap.

4. The clitoral pad may or may not have other means of stimulating a human for the purpose of sexual gratification. These means include "electro-stimulation" or "Electrical Neural Stimulation Toy" or "Electro Sex Toy" which is a system that applies a voltage potential between parts of the body and thereby passes electronic current through human tissue. This increases blood flow to the area and causes muscles and tissue to contract for the purpose of pleasure. The nervous system is excited during this electro-stimulation and many people find pleasure in this sensation. Small smooth electrical contact pads can be placed strategically on numerous areas of the device in addition to the clitoral pad to facilitate "electro-stimulation". This allows current flow to be set up between various areas of the clitoral pad, between the pad and internal arm and between the pad and the internal vibration module (described later) and the vibration module and the internal arm. The electronics and microprocessor to drive these "Electro Sex" options can be contained inside the flexible exterior of the device.

5. Other clitoral pad stimulation techniques include mechanical movement. Through mechanical means the bottom surface of the pad can be moved in any of three axis directions and/or can perform a constricting motion where the outside of the pad moves towards the centre and then back out again. This provides a motion the clitoral area that can be back and forth, and/or up and down and/or rotational and/or perceived as pressure changes against the body by moving in an in and out fashion. The movement can be controlled by the microprocessor and perform varied patterns and rhythms in the 6 to 600 Hz. range with an amplitude of up to .2". The motion can be achieved through the use of SMA (shape

memory alloys) in the multi-layer stacked form of a "Nono muscle" or the SMA spring/piston ("electric piston") or through the heating and cooling of SMA wire (Nitro, Muscle wire or other "Titanium Nickel products") or geared electric motor mechanisms or by solenoid push and/or pull action. The motion can be transmitted to the desired spot on the clitoral pad and/or to other areas of the device through the use of rotating drive shafts, push rods, levers, etc. The mechanical motion is very different to a vibration in that the frequency is much lower and the amount of travel that the pad moves is much larger and the motion can be controlled during the stroke. The stroke length can be varied and the stroke speed can vary during a single cycle of the stroke. This allows many permutations of movement by varying the cycle speed, pause time, stroke acceleration, speed and length of travel (amplitude).

6. Another unique method of producing movement is a "Bent Drive" shaft rotating inside a sheath that can be used to create movement away from the motor and gear train. If the "Bent Drive" shaft is made from a flexible material like TiNi, is driven by a geared motor located above the clitoral pad, and it is rotated internally in the arm of the device, the internal vibrating module can be made to move or flick back and forth as the drive shaft rotates. The spring drive shaft must have a resting shape that has some amount of curve to it. The larger the bend, the more power and torque required to rotate the drive shaft one revolution.

7. Another method of producing pleasing vibration is through the use of harmonics. A unique method has been devices that sets of slowly changing standing waves in the molding material. When two or more vibrating motors are used, the oscillations from each motor combine to cause constructive interference when the motor's off-centre weights are in phase with one another. When the motors' off-centre weights are out of phase with each other, destructive interference is created and the effect is to reduce half the motors' vibrational effect. As the motors are running at very nearly the same RPM, the motors slowly change their relative phase creating a pulsating harmonic between them. These standing waves come and go as the motors come in and out of phase and create a very pleasing harmonic resonance in the molded material. The rhythm of the harmonic is a function of how closely the motor speeds match each other and their absolute RPM. No other device utilizes motors (two or more) to produce harmonic interference based on vibration patterns or effects. Due to electrical feedback, if two or more motors are connected electrically in parallel, the harmonic patterns become significant provided the motors are placed in approximately the same rotational plane and the vibrations from each motor can sufficiently reach the other motor(s). A microprocessor control

can also be used to control the speed of the motors and therefore control the nature of the harmonic patterns created through the constructive/destructive interference patterns generated as the motors vibrate.

8. Any method of producing vibration or mechanical movement and be applied to any part of the device of the present invention.

9. No wires are external to the device of the present invention and it is "water resistant" or reasonably "water proof" to allow for use in the shower, bath and for washing.

10. **Two:** The second component of the "Lite" version is the flexible internal arm that is attached at the back end of the clitoral pad in a smooth and contoured fashion. It is thin and narrow and has rounded edges. It is flexible and curved to fit the shape of a typical woman's body between the clitoris and the vaginal opening. It continues from the vaginal opening in a lesser curved shape for 2 to 3 inches as it is designed to go well into the vagina when the clitoral pad is in place on the woman's body. It is made from the same flexible silicone or rubber that the clitoral pad is made from. Any drive shafts, push/pull rods or wires that go from the clitoral pad to the internal vibrating module are housed internal to the arm. The arm is very soft and flexible on the outside and has a smooth surface. The arm has a springy nature by virtue of internal spring steel or TiNi (titanium nickel compound) rods that are housed inside the silicone rubber. This springy, nature allows the arm to flex internally in the woman as she moves and flexes. This allows movement but also applies some force as the arm always wants to maintain to its "C" shape. This force pushes down on the clitoral pad at the top end of the arm, and at the bottom end of the arm, the vibrating module is pulled towards the front of the woman's body where the G-spot is located. The unique aspect of this internal arm is that holds the clitoral pad in place, it holds the internal vibrating module around the G-spot area in the vagina and is flexible enough to adapt to any shape that the vagina may take. In addition it is the only product that is designed to allow the user to have intercourse while wearing the device of the present invention. The penis or other similar shaped objects can easily go into the vagina while the arm is in place. A male will not be bothered by the device as it is being worn by the woman due to its smooth surface and low profile. This is unique in that no other device can hold a vibrating module in the vagina during intercourse.

11. **Three:** At the end of the arm is an internal vibrating module. It is a round disk shape about 1" in diameter and 0.25" thick. It is smooth and flexible on the outside and is tapered where it attaches to the arm. This vibrating module contains at least one vibrating cylindrical or disk-shaped motor and may also contain electro-stimulation pads. Mechanical

movement in addition to vibration may be achieved through the use of drive shafts or push/pull rods housed in the arm. The vibration module could have any combination of movements including rotational, sideways, back and forth or up and down.

**[0035]** The "Medium" version is comprised of the Lite version plus it has a handle, as noted above in reference to Figures 6 to 10.

**[0036]** In an alternate version to that described above, mounted centrally on the top side of the clitoral pad is a pedestal. The pedestal rises from the pad in a smooth contoured fashion. This pedestal provides a means of attaching a handle. The pedestal is fashioned in such a way as to allow the labia majora to fold over the clitoral pad and surround the pad except in a small area in the middle of the pad where the pedestal is attached. The handle is attached to the pedestal in a smooth and contoured fashion and where it is wider than the pedestal, it allows the labia majora to reside between the clitoral pad and the handle. The handle is used by the user to adjust the position of the device and it contains some push buttons imbedded in the soft exterior of the handle. The handle may also contain batteries and/or the device's electronics. The handle is about 1 inch wide, smooth, soft, flexible and is tapered in shape so as to be comfortable when sandwiched between two people.

**[0037]** The "Full" version as shown above in 11d, e and f is composed of the Medium version plus it has two vibrating membrane arms that come from the central part of the "C" and cover the labia majora and meet as a contoured bulb over the fourchette, perineum and the anus. These two arms may each contain at least one vibrating cylindrical or disk shaped motor and may also contain electro-stimulation pads. The arms are elastic in nature to allow for the woman to stretch and move without restriction or discomfort. The arms transmit sensation to the labia majora and surrounding tissues. The arms are about 0.2" thick and may be as wide as 1". They are shaped to allow the penis or other similarly shaped objects to enter the vagina, without restriction. Again, no other device can hold vibrating arms against the female sensitive areas during intercourse, without the use of straps or undergarments. Where the two membrane arms meet above the perineum, there may be at least one vibrating cylindrical or disk-shaped vibrating motor and may also contain electro-stimulation pads. This area is contoured to fit between the cheeks and contact the skin in the area of the anus to transmit the desired vibrations. It is smooth and soft with rounded edges. It will be understood that the "full" version is, essentially, a basic device, as shown in Figures 1 to 5, grafted to an additional item of paraphernalia.

**[0038]** The "Heavy" version is comprised of the Full version plus it has an attached anal plug that can be available in several sizes. This anal vibrating plug may contain at least one vibrating cylindrical or disk-shaped vibration motor and may also contain electro-stimulation

pads and or mechanical movement facilities described above.

**[0039]** The device may have a memory shape element to it as well - i.e. if you bend it fairly hard, at a certain point it will change its resting shape and remember to a degree. This would allow a user to bend it strategically so that the device is the precise shape they want. The device would still flex as the original "non-customizable device" does. Normal use does not flex the device enough to cause it to appreciably take on a new shape - i.e. it keeps its shape after adjusting. This can be done by adding a wire or strip or loop of iron or aluminum or other material.

**[0040]** Lite takes lithium batteries CR2450 or CR2032 or AAAA Alkaline.

#### Parts List for Alternative Version of the "Lite version"

##### **[0041]**

Core of 30 durometer silicone (pink)  
Outer surface of 10 durometer silicone (clear or blue)  
26 AWG varnished wire  
2 miniature circuit boards for battery contacts and wire connections .3" \* .6"  
1 molded silicone switch cover  
2 of coin type vibrating motors part Sanko 1E110 - 3VDC  
2 of AAAA batteries 1.5 volt Alkaline  
1 miniature slide switch GC Switch No. 35-202  
28 cm of Titanium/Nickel 50/50 wire diameter of 0.026"

**[0042]** Operational finished Core with internal motors and switch, Core mold, internal TiNi spring and Outer mold example to demonstrate shape of finished product: see Figure 11h.

**[0043]** Note the arrows showing the "Outer surface" and "Inner surface" in Figure 11h. When worn, the inner surface is against the woman and the outer surface is against the man.

**[0044]** Shape of a possible switch cover (to keep silicone out of switch during molding process) is shown in Figure 11i. Switch mount wings get cut off and switch is sealed inside white silicone cover with silicone glue after wires are attached.

**[0045]** Switch in silicone housing is shown in Figure 11j.

**[0046]** A spring in loop after being cut to 29 cm and made into loop by twisting ends together and holding in place with a small steel clip, as shown in Figure 11k.

**[0047]** Spring wire in jig showing wire dimensions.

**[0048]** Note Radius A, B and C in Figure 11l. To best fit a woman's body:

Radius A is smallest and blends into B, which blends into the largest radius C. A is about 0.25" radius, B is 0.5" radius, and C is 1.0" radius. H is to show

the "Hook" area of the internal vibrating module. This bend starts at post "P". The Hook pulls up on the G-spot and holds the device in place. The up pressure by the hook is countered by downward pressure on the clitoral area.

**[0049]** In Figures 11m and 1 In, parts in Core Mold, the scale to the right is in inches. Two motors, spring, circuit board, switch without cover and two AAAA Energizer batteries.

#### Assembly Procedures

**[0050]** Wires are soldered to circuit board 2, switch is soldered to circuit board 1, and wires are soldered to motors as per schematic. Motors are given a thin coat of silicone to make them impermeable during molding process. Switch is sealed into molded silicone cover with silicone glue also to keep silicone out during molding process. Two AAAA batteries have their positive end bumps filed down flush in order to create two "temporary" batteries that are about 0.08" shorter than normal AAAA batteries. Small pieces of clay are placed on ends of each temporary battery and the circuit board 2 is stuck to one end. Circuit board 1 with mounted and encapsulated switch is pressed into the clay at the other end of the batteries. The wire is made into a loop by cutting a straight piece 29 cm long and twisting the two ends together. The wire is placed in a jig and formed with a heating process to 500°C for five minutes in order for the spring to maintain the desired shape. The spring is then placed in the core mold. The batteries (with switch and PCB #1 at one end, and PCB #2 at the other end) is placed into the core mold and the two motors with wires running to PCB #2 are placed inside the core mold. Top of mold is pressed in place and the mold is filled with 30 durometer silicone. Once silicone has cured, the core is removed and placed in the outer mold. The outer mold top is pressed into place and is then filled with 10 durometer silicone. Once the silicone has cured the final product is removed from the mold. A blade is used to make one central split, between the batteries on the top surface of the clitoral pad. The short temporary batteries are removed through the slit along with the small bits of clay. The PCB contacts are cleaned and inspected for silicone that could interfere with battery to PCB contact. New AAAA batteries are inserted and the silicone stretches to accept the normal length batteries. The stretch causes the PCBs to be pressed against the ends of the batteries and maintain good electrical contact. The unit is then turned on to ensure both motors operate and any mold flanges are cut off.

**[0051]** The shape and degree of resistance to flexing of the internal arm is critical.

**[0052]** Two elements of TiNi wire between 0.020 and 0.030" diameter offer the correct amount of flexibility. Prototypes created used 0.024, 0.026 and 0.0277". A single strand would need to be about 0.026 to 0.032" in

diameter to offer similar stiffness, but two strands were settle on because of the increased lateral stability of the arm, over one thicker spring wire.

**[0053]** The shape of the arm is critical as well so that the arm conforms well to the shape of a woman between the clitoris and the vaginal opening. The clitoral pad is anatomically shaped to ensure it is close fitting and it is small enough to nestle in between the outer labia. The arm is thin and narrow in order to be as unobtrusive as possible to the man. The internal vibrating module is curved to put pressure on the G-spot. When the arm is inserted into the vagina, the curve of the arm is spread open and stresses the spring. This exerts pressure downward on the clitoral pad and presses the pad into the woman's clitoral area. An equal force is exerted upwards by the internal vibrating module on the G-spot area in the vagina. The C shape of the device is opened up when it is inserted into the woman and the resulting pressure keeps the device in place during intercourse. The arm is flexible enough to allow movement. As a woman changes body position, the arm flexes and moves and does not exert undesirable pressure internally or externally in the woman. It should be noted also that the device conforms to the shape of the vagina even when this shape changes when a penis is inserted and also changes when the penis is at different angles relative to the woman. The spring is made of a memory material (TiNi) so that no amount of bending will permanently change the relaxed shape of the spring and therefore the shape of the device. Normally, the relaxed "C" shape of the device is opened up to almost an "L" shape when it is worn.

**[0054]** The "inner" surface of the clitoral pad, internal arm and internal vibrating module have a textured (knurled) surface to maximize grip or friction on the woman's skin. This is to help hold the device in place by gripping the woman's skin that it is in contact with.

**[0055]** The "outer" surface of the clitoral pad, internal arm and internal vibrating module that is against the man's skin is glass smooth to minimize friction to reduce any tendency of the device to move with the man as the penis moves in and out of the vagina.

#### Claims

1. A sexual stimulation device comprising:

an inner arm (1) dimensioned for insertion into a vagina;

an outer arm dimensioned to contact the clitoral area when said inner arm (1) is inserted in the vagina, said outer arm defining a clitoral pad (4); and

a resilient U-shaped member (3) connecting the inner and outer arms;

**characterized in that**

said resilient member (3) is thin and narrow to permit sexual intercourse when said inner arm

- (1) is inserted in the vagina, and said inner and outer arms taper toward said resilient member (3) such that said device is dimensioned to be worn by a female during intercourse; the device is generally C-shaped when in a relaxed state; wherein, during use, the C-shape of the device is opened up such that the device is generally L-shaped and resulting pressure from the inner arm (1) on the anterior surface of the vagina and from the clitoral pad (4) on the clitoral area keeps the device in place when worn by a female during intercourse.
2. The device as claimed in claim 1, wherein said inner arm (1) is generally teardrop-shaped, and optionally includes a rounded inwardly directed protuberance or wherein both the inner arm (1) and the outer arm are generally teardrop-shaped and said inner arm (1) optionally includes a rounded inwardly directed protuberance.
  3. The device as claimed in claim 1 or 2, wherein said clitoral pad (4) is substantially round, triangular, rectangular or oval.
  4. The device as claimed in claim 3, wherein said clitoral pad (4) is dimensioned for placement between the labia majora, in contact with the clitoris.
  5. The device as claimed in any one of claims 1 to 4, wherein at least one of said inner (1) and outer arms comprises a stimulation means that is a vibratory motor (8, 10, 18) and/or, means for mechanical movement and/or said clitoral pad (4) of said outer arm comprises means for electro-stimulation; or each of said inner (1) and outer arms comprises a stimulation means that is a vibratory motor (8, 10, 18), and/or means for mechanical movement.
  6. The device as claimed in claim 5, wherein said vibratory motors (8, 10, 18) are independently operating motors and/or said vibratory motors (8, 10, 18) can be operated to create a harmonic vibration in the device.
  7. The device as claimed in claim 5 or 6, wherein said device comprises a power means (16), such as a rechargeable battery (16), optionally located in said outer arm, or a replaceable battery or a wire.
  8. The device as claimed in claim 7, wherein said outer arm includes means (12, 13) for recharging said battery (16).
  9. The device as claimed in claim 7 or 8, wherein said outer arm is provided with a switch means (11).
  10. The device as claimed in claim 9, wherein said switch means (11) is capable of actuating said motors (8, 10, 18) in more than one on mode and/or one or more levels of power and/or one or more directions of rotation.
  11. The device as claimed in any one of claims 1 to 10, wherein said device comprises an inner skeleton (6).
  12. The device as claimed in claim 11, wherein the skeleton (6) is resilient.
  13. The device as claimed in claim 11, wherein the skeleton (6) is made from a molded plastic, a pre-shaped metal, a shape memory alloy, a thermoplastic polymer, or a resilient plastic.
  14. The device as claimed in any one of claims 11 to 13, wherein said device has a soft, pliable outer layer (5).
  15. The device as claimed in claim 14, wherein the soft, pliable outer layer (5) is made from silicone, vinyl, or rubber.
  16. The device as claimed in claim 3 or 4, wherein said outer arm comprises an inside surface of the clitoral pad (4), wherein the inside surface is smooth, textured, dimpled or has many small protrusions.
  17. The device as claimed in any one of claims 1 to 16, wherein the device is water resistant or waterproof.

#### Patentansprüche

##### 1. Sexuelle Stimulationsvorrichtung umfassend:

einen inneren Arm (1), der zur Einführung in eine Vagina dimensioniert ist;

einen äußeren Arm, der dimensioniert ist, um den klitoralen Bereich zu berühren, wenn der innere Arm (1) in die Vagina eingeführt ist, wobei der äußere Arm ein Klitoral-Pad (4) definiert; und ein elastisches U-förmiges Element (3), das den inneren und äußeren Arm miteinander verbindet;

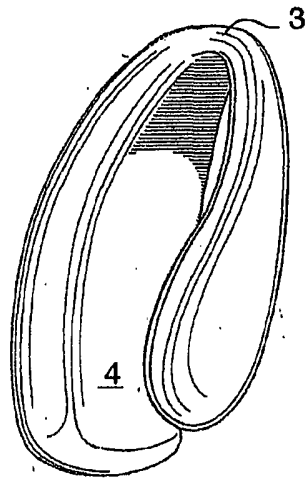
##### **dadurch gekennzeichnet, dass**

das elastische Element (3) dünn und schmal ist, um Geschlechtsverkehr zu ermöglichen, wenn der innere Arm (1) in die Vagina eingeführt ist, und der innere und äußere Arm sich zu dem elastischen Element (3) hin verjüngen, so dass die Vorrichtung dimensioniert ist, um von einer Frau beim Geschlechtsverkehr getragen zu werden;

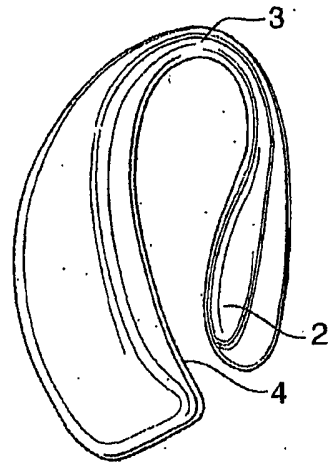
die Vorrichtung generell C-förmig ausgebildet ist, wenn sie sich in einem entspannten Zustand befindet;

- wobei die C-Form der Vorrichtung bei Verwendung geöffnet wird, so dass die Vorrichtung allgemein L-förmig ist und ein daraus resultierender Druck von dem inneren Arm (1) auf die vordere Fläche der Vagina und von dem Klitoral-Pad (4) auf den Klitoralbereich die Vorrichtung an der Stelle hält, wenn sie von einer Frau beim Geschlechtsverkehr getragen wird.
2. Vorrichtung gemäß Anspruch 1, bei der der innere Arm (1) generell tränenförmig ausgebildet ist, und optional einen abgerundeten, nach innen gerichteten Vorsprung aufweist oder wobei beide, der innere Arm (1) und der äußere Arm, generell tränenförmig ausgebildet sind und der innere Arm (1) optional einen abgerundeten nach innen gerichteten Vorsprung aufweist.
  3. Vorrichtung gemäß Anspruch 1 oder 2, bei der das Klitoral-Pad (4) im Wesentlichen rund, dreieckig, rechteckig oder oval ausgebildet ist.
  4. Vorrichtung gemäß Anspruch 3, bei der das Klitoral-Pad (4) zur Platzierung zwischen den äußeren Schamlippen in Kontakt mit der Klitoris dimensioniert ist.
  5. Vorrichtung gemäß einem der Ansprüche 1 bis 4, bei der
    - wenigstens einer von dem inneren und dem äußeren Arm ein Stimulationsmittel umfasst, das als ein Vibrationsmotor (8, 10, 18) vorgesehen ist und/oder ein Mittel zur mechanischen Bewegung und/oder das Klitoral-Pad (4) des äußeren Arms ein Mittel zur Elektrostimulation umfasst; oder
    - beide, der innere und der äußere Arm, ein Stimulationsmittel umfassen, das ein Vibrationsmotor (8, 10, 18) und/oder ein Mittel zur mechanischen Bewegung ist.
  6. Vorrichtung gemäß Anspruch 5, bei der die Vibrationsmotoren (8, 10, 18) unabhängig voneinander betriebene Motoren sind und/oder die Vibrationsmotoren (8, 10, 18) betrieben werden können, um eine harmonische Vibration in der Vorrichtung zu erzeugen.
  7. Vorrichtung gemäß Anspruch 5 oder 6, wobei die Vorrichtung ein Energieversorgungsmittel (16) umfasst, wie z.B. eine wiederaufladbare Batterie (16), die optional in dem äußeren Arm angeordnet ist, oder eine austauschbare Batterie oder ein Kabel.
  8. Vorrichtung gemäß Anspruch 7, bei der der äußere Arm ein Mittel (12, 13) zum Wiederaufladen der Batterie (16) umfasst.
  9. Vorrichtung gemäß Anspruch 7 oder 8, bei der der
    - äußere Arm mit einem Schaltmittel (11) vorgesehen ist.
  10. Vorrichtung gemäß Anspruch 9, bei der das Schaltmittel (11) ausgelegt ist, um die Motoren (8, 10, 18) in mehr als einem angeschalteten Modus und/oder einer oder mehreren Leistungsstufen und/oder einer oder mehreren Rotationsrichtungen zu betreiben.
  11. Vorrichtung gemäß einem der Ansprüche 1 bis 10, bei der die Vorrichtung ein inneres Skelett umfasst.
  12. Vorrichtung gemäß Anspruch 11, bei der das Skelett (6) elastisch ausgebildet ist.
  13. Vorrichtung gemäß Anspruch 11, bei der das Skelett (6) aus einem geformten Kunststoff, einem vorgeformten Metall, einer Formgedächtnislegierung, einem thermoplastischen Polymer oder einem elastischen Kunststoff hergestellt ist.
  14. Vorrichtung gemäß einem der Ansprüche 11 bis 13, bei der die Vorrichtung eine weiche, nachgiebige äußere Schicht (5) umfasst.
  15. Vorrichtung gemäß Anspruch 14, bei der die weiche, nachgiebige äußere Schicht (5) aus Silikon, Vinyl oder Gummi hergestellt ist.
  16. Vorrichtung gemäß Anspruch 3 oder 4, bei der der äußere Arm eine innere Fläche des klitoralen-Pads (4) umfasst, wobei die innere Fläche glatt, strukturiert, mit Vertiefungen oder mit vielen kleinen Vorsprüngen ausgebildet ist.
  17. Vorrichtung gemäß einem der Ansprüche 1 bis 16, bei der die Vorrichtung wasserfest oder wasserdicht ausgebildet ist.
- Revendications**
1. Dispositif de stimulation sexuelle comprenant :
    - un bras intérieur (1) dimensionné pour une insertion dans un vagin ;
    - un bras extérieur dimensionné pour établir le contact avec la zone clitoridienne lorsque ledit bras intérieur (1) est inséré dans le vagin, ledit bras extérieur définissant un tampon clitoridien (4) ; et
    - un élément en U élastique (3) reliant les bras intérieur et extérieur ;
- caractérisé en ce que**  
ledit élément élastique (3) est fin et étroit pour permettre des rapports sexuels lorsque ledit bras intérieur (1) est inséré dans le vagin et lesdits bras inté-

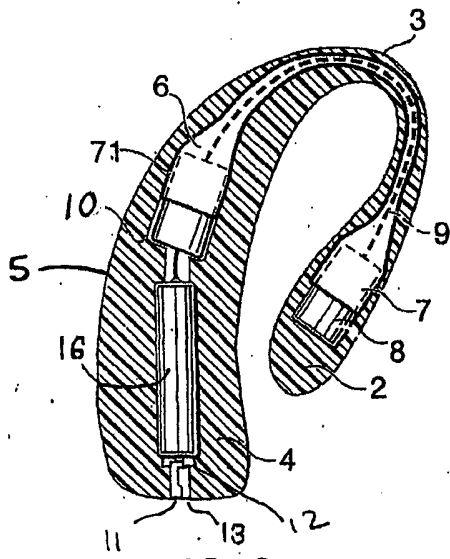
- rieur et extérieur diminuent vers ledit élément élastique (3) de sorte que ledit dispositif soit dimensionné pour être porté par une femme pendant des rapports ;  
le dispositif est généralement en forme en C lorsqu'il est dans un état détendu ;  
dans lequel pendant l'utilisation, la forme en C du dispositif est ouverte de sorte que le dispositif soit généralement en forme de L et la pression résultante du bras intérieur (1) sur la surface antérieure du vagin et du tampon clitoridien (4) sur la zone clitoridienne maintienne le dispositif en place lorsqu'il est porté par une femme pendant les rapports.
2. Dispositif selon la revendication 1, dans lequel ledit bras intérieur (1) est généralement en forme de goutte d'eau et inclut en option une saillie ronde dirigée vers l'intérieur ou dans lequel les deux bras intérieur (1) et extérieur sont généralement en forme de goutte d'eau et ledit bras intérieur (1) inclut en option une saillie ronde dirigée vers l'intérieur.
3. Dispositif selon la revendication 1 ou 2, dans lequel ledit tampon clitoridien (4) est sensiblement rond, triangulaire, rectangulaire ou ovale.
4. Dispositif selon la revendication 3, dans lequel ledit tampon clitoridien (4) est dimensionné pour le placement entre les grandes lèvres en contact avec le clitoris.
5. Dispositif selon l'une quelconque des revendications 1 à 4, dans lequel  
au moins un desdits bras intérieur (1) et extérieur comprend un moyen de stimulation qui est un moteur vibrant (8, 10, 18) et/ou des moyens pour le mouvement mécanique et/ou ledit tampon clitoridien (4) du dit bras extérieur comprend des moyens pour l'électrostimulation ; ou  
chacun desdits bras intérieur (1) et extérieur comprend un moyen de stimulation qui est un moteur vibrant (8, 10, 18) et/ou des moyens pour le mouvement mécanique.
6. Dispositif selon la revendication 5, dans lequel lesdits moteurs vibrants (8, 10, 18) sont des moteurs fonctionnant indépendamment et/ou lesdits moteurs vibrants (8, 10, 18) peuvent fonctionner pour créer une vibration harmonique dans le dispositif.
7. Dispositif selon la revendication 5 ou 6, dans lequel ledit dispositif comprend un moyen d'alimentation (16) tel qu'une batterie rechargeable (16), située en option dans ledit bras extérieur ou une batterie remplaçable ou un câble.
8. Dispositif selon la revendication 7, dans lequel ledit bras extérieur inclut des moyens (12, 13) pour recharger ladite batterie (16).
9. Dispositif selon la revendication 7 ou 8, dans lequel ledit bras extérieur est doté d'un moyen de commutation (11).
10. Dispositif selon la revendication 9, dans lequel ledit moyen de commutation (11) est capable d'actionner lesdits moteurs (8, 10, 18) dans plus d'un mode de marche et/ou un ou plusieurs niveaux de puissance et/ou une ou plusieurs directions de rotation.
11. Dispositif selon l'une quelconque des revendications 1 à 10, dans lequel ledit dispositif comprend un squelette intérieur (6).
12. Dispositif selon la revendication 11, dans lequel le squelette (6) est élastique.
13. Dispositif selon la revendication 11, dans lequel le squelette (6) est fabriqué en un plastique moulé, un métal préformé, un alliage à mémoire de forme, un polymère thermoplastique ou un plastique élastique.
14. Dispositif selon l'une quelconque des revendications 11 à 13, dans lequel ledit dispositif présente une couche extérieure molle pliable (5).
15. Dispositif selon la revendication 14, dans lequel la couche extérieure molle pliable (5) est en silicone, vinyle ou caoutchouc.
16. Dispositif selon la revendication 3 ou 4, dans lequel ledit bras extérieur comprend une surface intérieure du tampon clitoridien (4), dans lequel la surface intérieure est lisse, texturée, à bosses ou présente de nombreuses petites saillies.
17. Dispositif selon l'une quelconque des revendications 1 à 16, dans lequel le dispositif est résistant à l'eau ou étanche à l'eau.



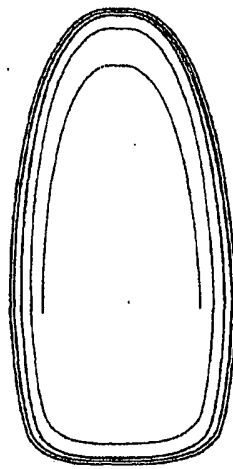
**FIG. 1**



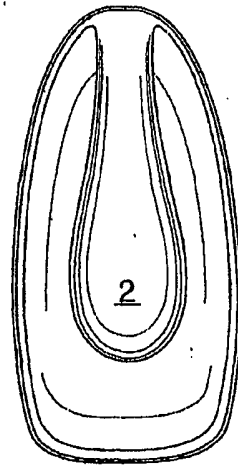
**FIG. 2**



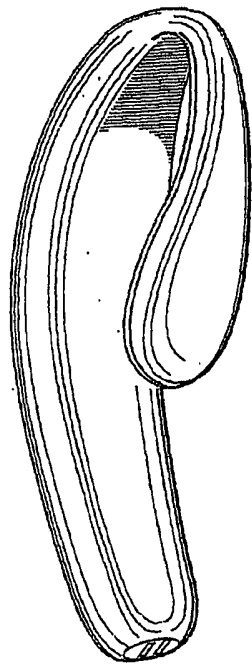
**FIG. 3**



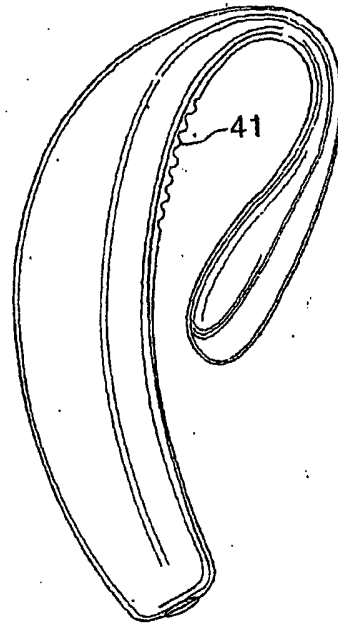
**FIG. 4**



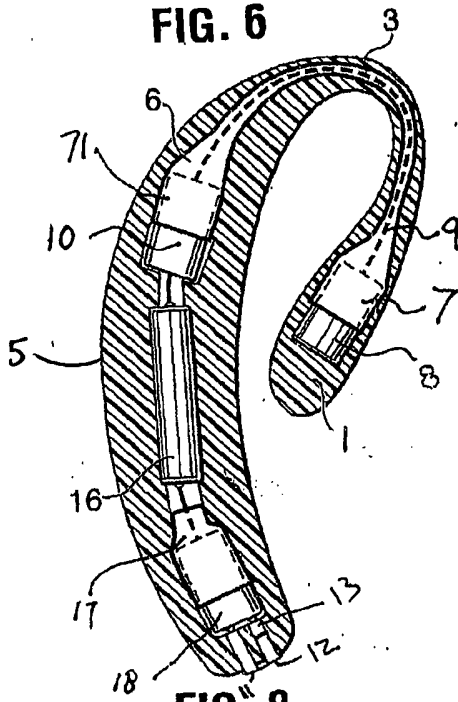
**FIG. 5**



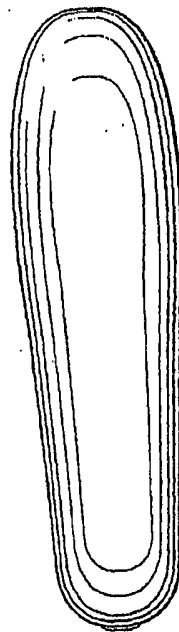
**FIG. 6**



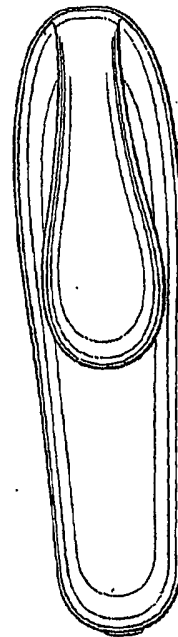
**FIG. 7**



**FIG. 8**



**FIG. 9**



**FIG. 10**

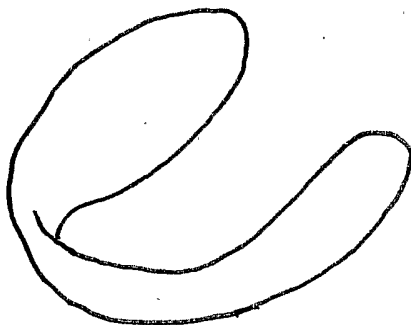


FIGURE 11A

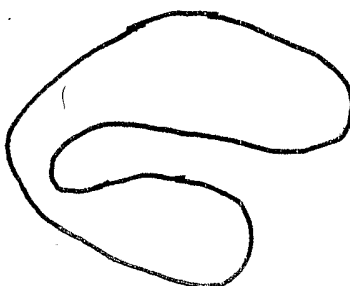


FIGURE 11B

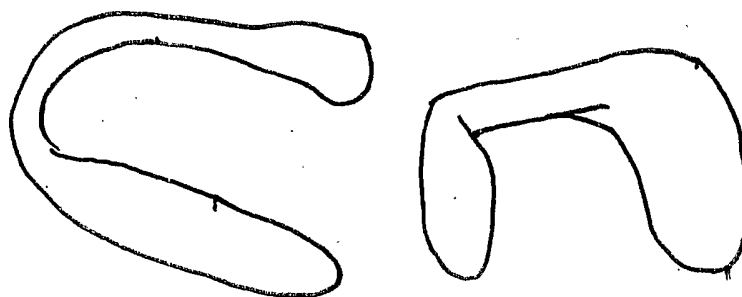


FIGURE 11C

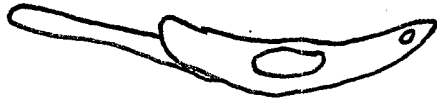


FIGURE 11D

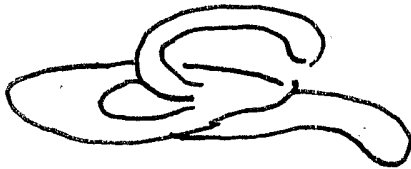


FIGURE 11E

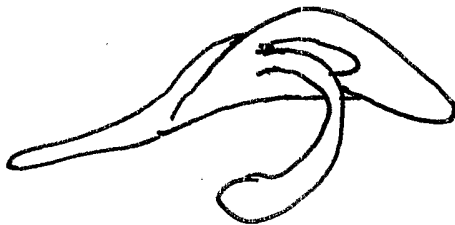


FIGURE 11F

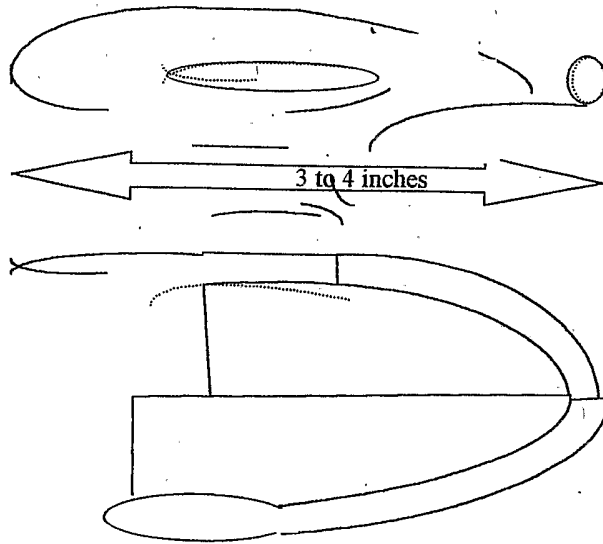


FIGURE 11G

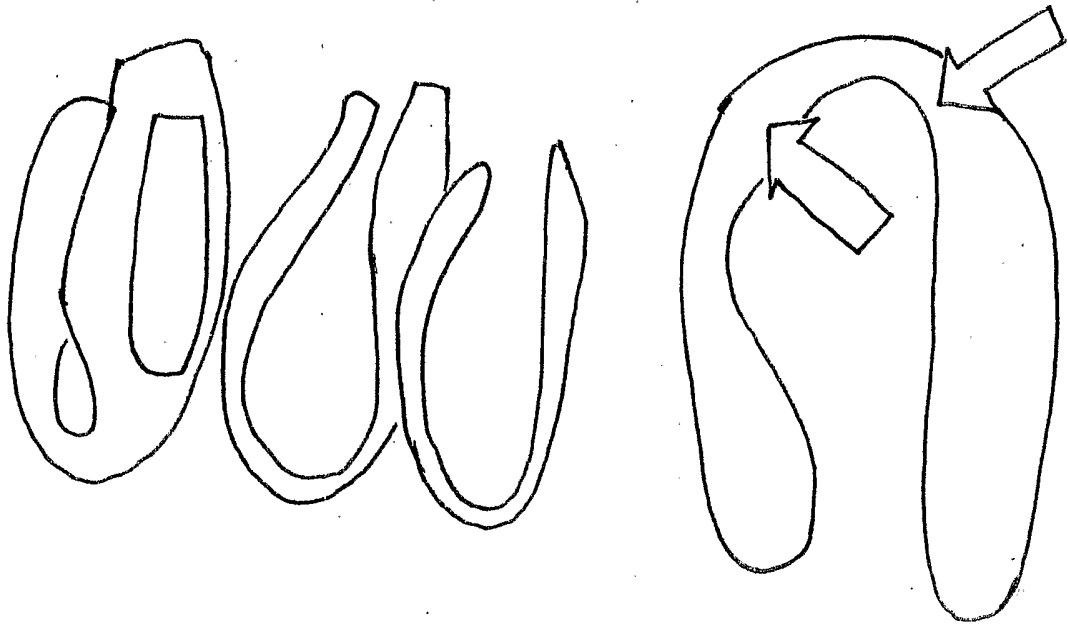


FIGURE 11H

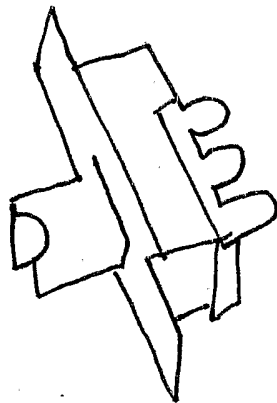


FIGURE 11I

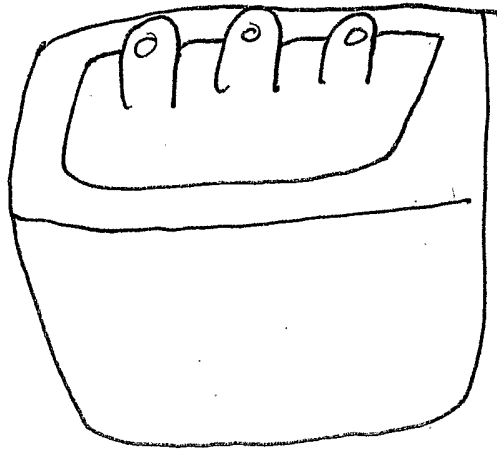


FIGURE 11J

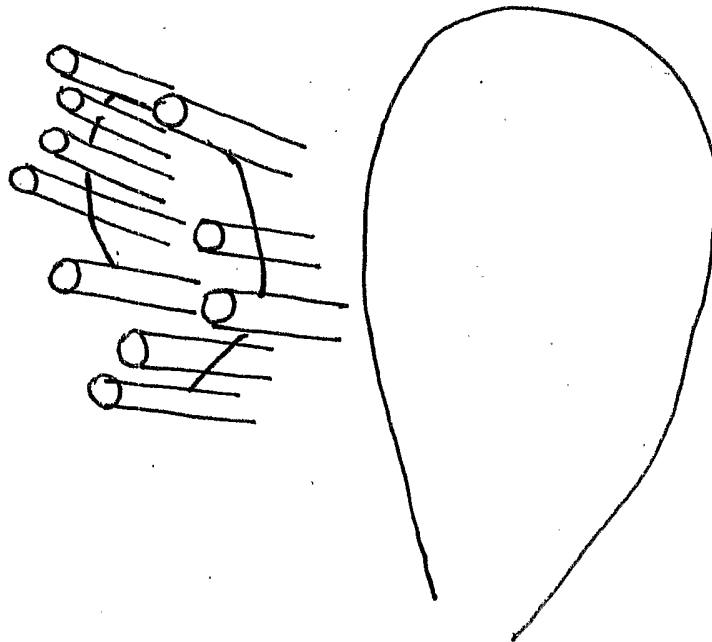


FIGURE 11K

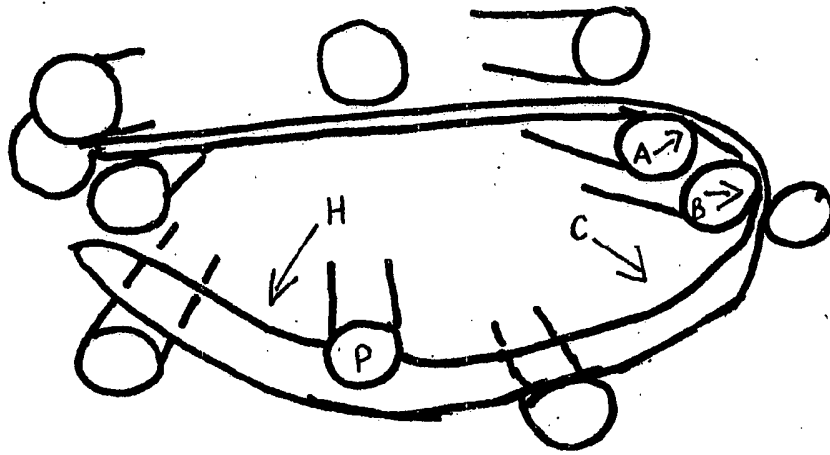


FIGURE 11L

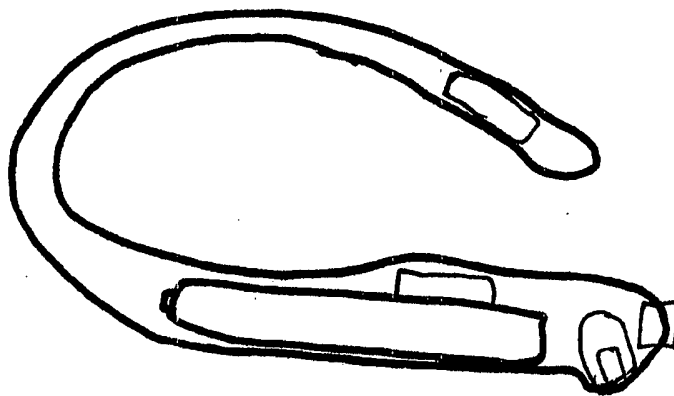


FIGURE 11M

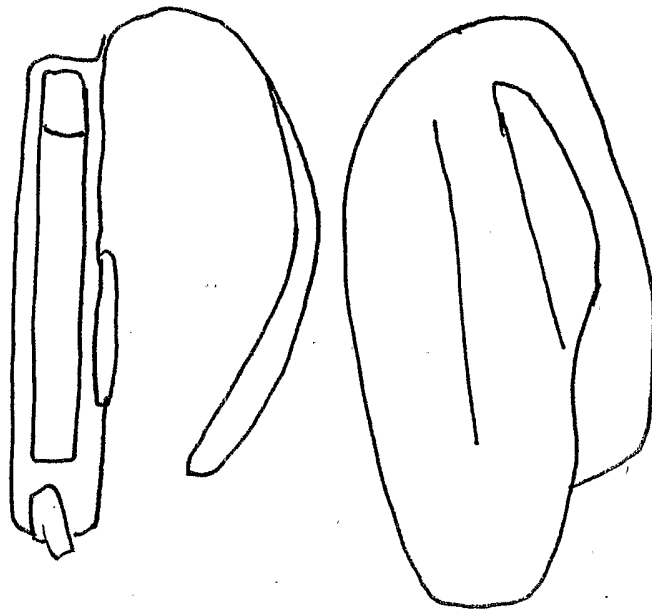


FIGURE 11N

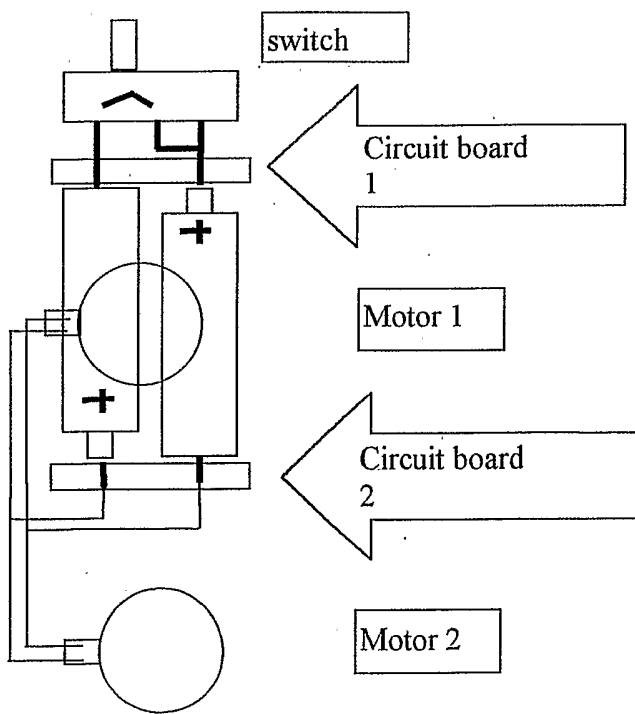


FIGURE 11O

**REFERENCES CITED IN THE DESCRIPTION**

*This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.*

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URL:[https://web-  
archive.org/web/20020408114635/http://www.natu-  
ral-contours.com](https://web.archive.org/web/20020408114635/http://www.natural-contours.com) [0005]*

## ELEKTROMECHANIKUS SZEXUÁLIS STIMULÁLÓ ESZKÖZ

*Szabadalmi igénypontok*

## 1. Szexuális stimuláló eszköz, amely tartalmaz

belső kart (1), mely vaginába való behelyezésre alkalmasan van méretezve;

- 5 külső kart, mely úgy van méretezve, hogy a belső kar (1) vaginában való elhelyezkedésekor a klitorisz környéki területtel van érintkezésben, a külső kar klitoriszpárnát (4) képez; és rugalmas U-alakú tagot (3), mely a belső és külső karokat kapcsolja össze;

**azzal jellemezve, hogy**

- 10 szexuális közösülés belső kar (1) vaginában való elhelyezkedése mellett történő lehetővé tételéhez a rugalmas tag (3) vékony és keskeny, továbbá a belső és külső karok a rugalmas tag (3) felé olyan módon elkeskenyedően vannak kiképezve, hogy az eszköz nő által közösüléskor való viselésre alkalmas méreteekkel rendelkezik;

az eszköz nyugalmi állapotban általában C-alakú;

- 15 ahol, használat közben, az eszköz C-alakja általában L-alakra van kinyitva, továbbá az eszköz belső kar (1) által a vagina elülső felületére gyakorolt nyomás és a klitoriszpárna (4) által a klitorisz környéki területre gyakorolt nyomás hatására nő által közösüléskor való viselésekor a helyén marad.

2. Az 1. igénypont szerinti eszköz, ahol a belső kar (1) általában könnyecsepp alakú és adott esetben lekerekített, befelé irányított kiemelkedéssel rendelkezik, vagy ahol a belső kar (1) és a külső kar általában egyaránt könnyecsepp alakú és adott esetben a belső kar (1) lekerekített, befelé irányított kiemelkedéssel rendelkezik.

3. Az 1. vagy a 2. igénypont szerinti eszköz, ahol a klitoriszpárna (4) lényegében kerek, háromszög alakú, téglalap alakú vagy ovális.

4. A 3. igénypont szerinti eszköz, ahol a klitoriszpárna (4) a nagy szeméremajkak közötti, a klitorisszal érintkező elhelyezésre alkalmasan van méretezve.

5. Az 1-4. igénypontok bármelyike szerinti eszköz, ahol a belső (1) és külső karok legalább egyike rezgőmotor (8, 10, 18) és/vagy mechanikai mozgást végző elem képezte stimulálóelemet tartalmaz, és/vagy a külső kar klitoriszpárnája (4) elektromos stimulálásra alkalmas elemet tartalmaz; vagy a belső (1) és külső karok egyaránt tartalmaznak rezgőmotor (8, 10, 18) és/vagy mechanikai mozgást végző elem képezte stimulálóelemet.

6. Az 5. igénypont szerinti eszköz, ahol a rezgőmotorokat (8, 10, 18) egymástól függetlenül működtethető motorok képezik és/vagy a rezgőmotorok (8, 10, 18) az eszközben harmonikus rezgés keltésére alkalmasan működtethetők.

7. Az 5. vagy a 6. igénypont szerinti eszköz, amely tápellátást (16), például újratölthető telepet (16), adott esetben a külső karban elhelyezve, vagy cserélhető telepet vagy vezetékot tartalmaz.
8. A 7. igénypont szerinti eszköz, ahol a külső kar egy a telep (16) töltésére szolgáló eszközt (12, 13) foglal magában.
- 5 9. A 7. vagy a 8. igénypont szerinti eszköz, ahol a külső kar kapcsolóelemmel (11) van ellátva.
10. A 9. igénypont szerinti eszköz, ahol a kapcsolóelem (11) a motorok (8, 10, 18) egyenél több bekapcsolt üzemmódban és/vagy legalább egy teljesítményszint mellett és/vagy legalább egy forgásiránnyal történő működtetésére alkalmas.
11. Az 1-10. igénypontok bármelyike szerinti eszköz, amelynek belső váza (6) van.
- 10 12. A 11. igénypont szerinti eszköz, ahol a váz (6) rugalmas.
13. A 11. igénypont szerinti eszköz, ahol a váz (6) formázott műanyagból, előre formált fémből, alakmemóriával rendelkező ötvözetből, hőre lágyuló polimerből vagy rugalmas műanyagból van.
14. A 11-13. igénypontok bármelyike szerinti eszköz, amelynek lágy, hajlékony külső rétege (5) van.
15. A 14. igénypont szerinti eszköz, ahol a lágy, hajlékony külső réteg (5) szilikonból, vinilből, vagy gumiból van.
- 15 16. A 3. vagy a 4. igénypont szerinti eszköz, ahol a klitoriszpárna (4) belső felülete a külső karnak képező részét, ahol a belső felület sima, strukturált, bemélyedésekkel ellátott vagy számos apró kiemelkedéssel rendelkezik.
17. Az 1-16. igénypontok bármelyike szerinti eszköz, amely vízálló vagy vízhatlan.