READING 29

Socially Camouflaged Technologies: The Case of the Electromechanical Vibrator

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Certain commodities are sold in the legal marketplace for which the expected use is either illegal or socially unacceptable. Marketing of these goods, therefore, requires camouflaging of the design purpose in a verbal and visual rhetoric that conveys to the knowledgeable consumer the item's selling points without actually endorsing its socially prohibited uses. I refer not to goods that are actually illegal in character, such as marijuana, but to their greymarket background technologies, such as cigarette rolling papers. Marketing efforts for goods of this type have similar characteristics over time, despite the dissimilarity of the advertised commodities. I shall discuss here an electromechanical technology that addresses formerly prohibited expressions of women's

sexuality—the vibrator in its earliest incarnation between 1870 and 1930. Comparisons will be drawn between marketing strategies for this electromechanical technology, introduced between 1880 and 1903, and that of emmenagogues, distilling, burglary tools, and computer software copying, as well as the paradigm example of drug paraphernalia.

I shall argue here that electromechanical massage of the female genitalia achieved acceptance during the period in question by both professionals and consumers not only because it was less cumbersome, labor-intensive and costly than predecessor technologies, but because it maintained the social camouflage of sexual massage treatment through its associations with modern professional instrumentation and with prevailing beliefs about electricity as a healing agent.

The case of the electromechanical vibrator, as a technology associated with women's sexuality, involves issues of acceptability rather than legality. The vibrator and its predecessor technologies, including the dildo, are associated with masturbation, a socially prohibited activity until well into the second half of this century.[1] Devices for mechanically-assisted female masturbation, mainly vibrators and dildoes, were marketed in the popular press from the late nineteenth century through the early thirties in similarly camouflaged advertising. Such advertisements temporarily disappeared from popular literature after the vibrator

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began to appear in stag films, which may have rendered the camouflage inadequate, and did not resurface until social change made it unnecessary to disguise the sexual uses of the device.[2]

For purposes of this discussion, a vibrator is a mechanical or electromechanical appliance imparting rapid and rhythmic pressure through a contoured working surface usually mounted at a right angle to the handle. These points of contact generally take the form of a set of interchangeable vibratodes configured to the anatomical areas they are intended to address. Vibrators are rarely employed internally in masturbation; they thus differ from dildoes, which are generally straight-shafted and may or may not include a vibratory component. Vibrators are here distinguished also from massagers, the working surfaces of which are flat or dished.[3] It should be noted that this is a historian's distinction imposed on the primary sources; medical authors and appliance manufacturers apply a heterogeneous nomenclature to massage technologies. Vibrators and dildoes rarely appeared in household advertising between 1930 and 1955, massagers continued to be marketed, mainly through household magazines.[4]

The electromechanical vibrator, introduced as a medical instrument in the 1880s and as a home appliance between 1900 and 1903, represented the convergence of several older medical massage technologies, including manual, hydriatic, electrotherapeutic and mechanical methods. Internal and external gynecological massage with lubricated fingers had been a standard medical treatment for hysteria, disorders of menstruation and other female complaints at least since the time of Aretaeus Cappadox (circa 150 A.D.), and the evidence suggests that orgasmic response on the part of the patient may have been the intended therapeutic result.[5] Douche therapy, a method of directing a jet of pumped water at the pelvic area and vulva, was employed for a similar purpose after hydrotherapy became popular in the eighteenth and nineteeth centuries. [6] The camouflage of the apparently sexual character of such therapy was accomplished through its medical respectability and through creative definitions both of the diseases for which massage was indicated and of the effects of treatment. In the case of the electromechanical vibrator, the use of electrical power contributed the cachet of modernity and linked the instrument to older technologies of electrotherapeutics, in which patients received low-voltage electricity through electrodes attached directly to the skin or mucous membranes, and to light-bath therapy, in which electric light was applied to the skin in a closed cabinet. The electrotherapeutic association was explicitly invoked in the original term for the vibrator's interchangeable applicators, which were known as "vibratodes." Electrical treatments were employed in hysteria as soon as they were introduced in the eighteenth century, and remained in use as late as the 1920s.

Hysteria as a disease paradigm, from its origins in the Egyptian medical corpus through its conceptual eradication by American Psychological Association fiat in 1952, was sovaguely and subjectively defined that it might encompass almost any set of ambiguous symptoms that troubled a woman or her family. As its name suggests, hysteria as well as its "sister" complaint chlorosis were until the twentieth century thought to have their etiology in the female reproductive tract generally, and more particularly in the organism's response to sexual deprivation.[7] This physiological condition seems to have achieved epidemic proportions among women and girls, at least in the modern period.[8] Sydenham, writing in the seventeenth century, observed that hysteria was the most common of all diseases except fevers.[9]

In the late nineteenth century, physicians noted with alarm that from half to threequarters of all women showed signs of hysterical affliction. Among the many symptoms listed in medical descriptions of the syndrome are anxiety, sense of heaviness in the pelvis, edema (swelling) in the lower abdomen and genital areas, wandering of attention and associated tendencies to indulge in sexual fantasy, insomnia, irritability, and "excessive" vaginal lubrication.

The therapeutic objective in such cases was to produce a "crisis" of the disease in the Hippocratic sense of this expression, corresponding to the point in infectious diseases at which the fever breaks. Manual massage of the vulva by physicians or midwives, with fragrant oils as lubricants, formed part of the standard treatment repertoire for hysteria, chlorosis and related disorders from ancient times until the post-Freudian era. The crisis induced by this procedure was usually called the "hysterical paroxysm." Treatment for hysteria might comprise up to three-quarters of a physician's practice in the nineteenth century. Doctors who employed vulvular massage treatment in hysteria thus required fast, efficient and effective means of producing the desired crisis. Portability of the technology was also a desideratum, as physicians treated many patients in their homes, and only manual massage under these conditions was possible until the introduction of the portable battery-powered vibrator for medical use in the late 1880s.

Patients reported experiencing symptomatic relief after such treatments, and such conditions as pelvic congestion and insomnia were noticeably ameliorated, especially if therapy continued on a regular basis. A few physicians, including Nathaniel Highmore in the seventeenth century and Auguste Tripier, a nineteenth century electrotherapist, clearly recognized the hysterical paroxysm as sexual orgasm.[10] That many of their colleagues also perceived the sexual character of hysteria treatments is suggested by the fact that, in the case of married women, one of the therapeutic options was intercourse, and in the case of single women, marriage was routinely recommended.[11] "God-fearing physicians," as Zacuto expressed it in the seventeenth century,

were expected to induce the paroxysm with their own fingers only when absolutely necessary, as in the case of very young single women, widows and nuns.[12]

Many later physicians, however, such as the nineteenth century hydrotherapist John Harvey Kellogg, seem not to have perceived the sexual character of patient response. Kellogg wrote extensively about hydrotherapy and electrotherapeutics in gynecology. In his "Electrotherapeutics in Chronic Maladies," published in Modern Medicine in 1904, he describes "strong contractions of the abdominal muscles" in a female patient undergoing treatment, and similar reactions such that "the office table was made to tremble quite violently with the movement." In their analysis of the situation, these physicians may have been handicapped by their failure to recognize that penetration is a successful means of producing orgasm in only a minority of women; thus treatments that did not involve significant vaginal penetration were not morally suspect. In effect, misperceptions of female sexuality formed part of the camouflage of the original manual technique that preceded the electromechanical vibrator. Insertion of the speculum, however, since it travelled the same path as the supposedly irresistible penis during intercourse, was widely criticized in the medical community for its purportedly immoral effect on patients.[13] That some questioned the ethics of the vulvular massage procedure is clear; Thomas Stretch Dowse quotes Graham as observing that "Massage of the pelvic organs should be intrusted to those alone who have 'clean hands and a pure heart'."[14] One physician, however, in an article significantly titled "Signs of Masturbation in the Female," proposed the application of an electrical charge to the clitoris as a test of salacious propensities in women. Sensitivity of the organ to this type of electrical stimulation, in his view, indicated secret indulgence in what was known in the nineteenth century as "a bad habit."[15] Ironically, such women were often

treated electrically for hysteria supposedly caused by masturbation.

However they construed the benefits, physicians regarded the genital massage procedure, which could take as long as an hour of skilled therapeutic activity, as something of a chore, and made early attempts to mechanize it. Hydrotherapy, in the form of what was known as the "pelvic douche" (massage of the lower pelvis with a jet of pumped water), provided similar relief to the patient with reduced demands on the therapist. Doctors of the eighteenth and nineteenth centuries frequently recommended douche therapy for their women patients who could afford spa visits. This market was limited, however, as both treatment and travel were costly.[16] A very small minority of patients and doctors could afford to install hydrotherapeutic facilities in convenient locations; both doctor and patient usually had to travel to the spa. Electrically-powered equipment, when it became available, thus had a decentralizing and cost-reducing effect on massage treatment.

In the 1860s, some spas and clinics introduced a coal-fired steam powered device invented by a Dr. George Taylor, called the "Manipulator," which massaged the lower pelvis while the patient either stood or lay on a table.[17] This too required a considerable expenditure either by the physician who purchased the equipment or by the patient who was required to travel to a spa for treatment. Thus, when the electromechanical vibrator was invented two decades later in England by Mortimer Granville and manufactured by Weiss, a ready market already existed in the medical community.[18] Ironically, Mortimer Granville considered the use of his instrument on women, especially hysterics, a morally indefensible act, and recommended the device only for use on the male skeletal muscles.[19] Although his original battery-powered model was heavy and unreliable, it was more portable

than water-powered massage and less fatiguing to the operator than manual massage.

Air-pressure models were introduced, but they required cumbersome tanks of compressed air, which needed frequent refilling. When line electricity became widely available, portable plug-in models made vibratory house calls more expeditious and cost effective for the enterprising physician. The difficulty of maintaining batteries in or out of the office was noted by several medical writers of the period predating the introduction of plug-in vibrators.[20] Batteries and small office generators were liable to fail at crucial moments during patient treatment, and required more engineering expertise for their maintenance than most physicians cared to acquire. Portable models using dc or ac line electricity were available with a wide range of vibratodes, such as the twelve-inch rectal probe supplied with one of the Gorman firm's vibrators.

Despite its inventor's reservations, the Weiss instrument and later devices on the same principle were widely used by physicians for pelvic disorders in women and girls. The social camouflage applied to the older manual technology was carefully maintained in connection with the new, at least until the 1920s. The marketing of medical vibrators to physicians and the discussion of them in such works as Covey's Profitable Office Specialties addressed two important professional considerations: the respectability of the devices as medical instruments (including their reassuringly clinical appearance) and their utility in the fast and efficient treatment of those chronic disorders, such as pelvic complaints in women, that provided a significant portion of a physician's income.[21] The importance of a prestige image for electromechanical instrumentation, and its role in the pricing of medical vibrators is illustrated by a paragraph in the advertising brochure for the

"Chattanooga," at \$200 in 1904 the most costly of the physicians' office models:

The Physician can give with the "Chattanooga" Vibrator a thorough massage treatment in three minutes that is extremely pleasant and beneficial, but this instrument is neither designed nor sold as a "Massage Machine." It is sold only to Physicians, and constructed for the express purpose of exciting the various organs of the body into activity through their central nervous supply.[22]

I do not mean to suggest that gynecological treatments were the only uses of such devices, or that all physicians who purchased them used them for the production of orgasm in female patients, but the literature suggests that a substantial number were interested in the new technology's utility in the hysteroneurasthenic complaints. The interposition of an officiallooking machine must have done much to restore clinical dignity to the massage procedure. The vibrator was introduced in 1899 as a home medical appliance, and was by 1904 advertised in household magazines in suggestive terms we shall examine later on. It was important for physicians to be able to justify to patients the expense of \$2-3 per treatment, as home vibrators were available for about \$5.

The acceptance of the electromechanical vibrator by physicians at the turn of this century may also have been influenced by their earlier adoption of electrotherapeutics, with which vibratory treatment could be, and often was, combined.[23] Vibratory therapeutics were introduced from London and Paris, especially from the famous Hôspital Salpêtrière, which added to their respectability in the medical community.[24] It is worth noting as well that in this period electrical and other vibrations were a subject of great interest and considerable confusion, not only among doctors and the general public, but even among scientists like Tesla, who is reported to have fallen under their spell. ". . . $[\tilde{T}]$ he Earth," he wrote, "is

responsive to electrical vibrations of definite pitch just as a tuning fork to certain waves of sound. These particular electrical vibrations, capable of powerfully exciting the Globe, lend themselves to innumerable uses of great importance . . . "[25] In the same category of mystical reverence for vibration is Samuel Wallian's contemporaneous essay on "The Undulatory Theory in Therapeutics," in which he describes "modalities or manifestations of vibratory impulse" as the guiding principle of the universe. "Each change and gradation is not a transformation, as mollusk into mammal, or monkey into man, but an evidence of a variation in vibratory velocity. A certain rate begets a vermis, another and higher rate produces a viper, a vertebrate, a vestryman." [26]

In 1900, according to Monell, more than a dozen medical vibratory devices for physicians had been available for examination at the Paris Exposition. Of these, few were able to compete in the long term with electromechanical models. Mary L. H. Arnold Snow, writing for a medical readership in 1904, discusses in some depth more than twenty types, of which more than half are electromechanical. These models, some priced to the medical trade as low as \$15, delivered vibrations from one to 7,000 pulses a minute. Some were floorstanding machines on rollers; others could be suspended from the ceiling like the modern impact wrench. The more expensive models were adapted to either ac or dc currents. A few, such as those of the British firm Schall and Son, could even be ordered with motors custom-wound to a physician's specifications. Portable and battery-powered electromechanical vibrators were generally less expensive than floor models, which both looked more imposing as instruments and were less likely to transmit fatiguing vibrations to the doctor's hands.

Patients were treated in health spa complexes, in doctor's offices or their own homes

with portable equipment. Designs consonant with prevailing notions of what a medical instrument should look like inspired consumer confidence in the physician and his apparatus, justified treatment costs, and, in the case of hysteria treatments, camouflaged the sexual character of the therapy. Hand or footpowered models, however, were tiring to the operator; water-powered ones became too expensive to operate when municipalities began metering water in the early twentieth century. Gasoline engines and batteries were cumbersome and difficult to maintain, as noted above. No fuel or air-tank handling by the user was required for line electricity, in contrast with compressed air, steam and petroleum as power sources. In the years after 1900, as line electricity became the norm in urban communities, the electromechanical vibrator emerged as the dominant technology for medical massage.

Some physicians contributed to this trend by endorsing the vibrator in works like that of Monell, who had studied vibratory massage in medical practice in the United States and Europe at the turn of this century. He praises its usefulness in female complaints:

... pelvic massage (in gynecology) has its brilliant advocates and they report wonderful results, but when practitioners must supply the skilled technic with their own fingers the method has no value to the majority. But special applicators (motor-driven) give practical value and office convenience to what otherwise is impractical.[27]

Other medical writers suggested combining vibratory treatment of the pelvis with hydroand electrotherapy, a refinement made possible by the ready adaptability of the new electromechanical technology.

At the same period, mechanical and electromechanical vibrators were introduced as home medical appliances. One of the earliest was the Vibratile, a battery-operated massage device

advertised in 1899. Like the vibrators sold to doctors, home appliances could be handpowered, water-driven, battery or street-current apparatus in a relatively wide range of prices from \$1.50 to \$28.75. This last named was the price of a Sears, Roebuck model of 1918, which could be purchased as an attachment for a separate electrical motor, drawing current through a lamp socket, which also powered a fan, buffer, grinder, mixer and sewing machine. The complete set was marketed in the catalogue under the headline "Aids that Every Woman Appreciates." Vibrators were mainly marketed to women, although men were sometimes exhorted to purchase the devices as gifts for their wives, or to become door-to-door sales representatives for the manufacturer.[28]

The electromechanical vibrator was preceded in the home market by a variety of electrotherapeutic appliances which continued to be advertised through the twenties, often in the same publications as vibratory massage devices. Montgomery Ward, Sears Roebuck and the Canadian mail order department store T. Eaton and Company all sold medical batteries by direct-mail by the end of the nineteenth century. These were simply batteries with electrodes that administered a mild shock. Some, like Butler's Electro-Massage Machine, produced their own electricity with friction motors. Contemporaneous and later appliances sometimes had special features, such as Dr. H. Sanche's Oxydonor, which produced ozone in addition to the current when one electrode was placed in water. "Electric" massage rollers, combs and brushes with a supposedly permanent charge retailed at this time for prices between one and five dollars. Publications like the Home Needlework Magazine and Men and Women advertised these devices, as well as related technologies, including correspondence courses in manual massage.

Vibrators with water motors, a popular power source, as noted above, before the

introduction of metered water, were advertised in such journals as Modern Women, which emphasized the cost savings over treatments by physicians and further emphasized the advantage of privacy offered by home treatment. Such devices were marketed through the teens in Hearst's and its successors, and in Woman's Home Companion.[29] Electromechanical vibrators were sold in the upper middle class market, in magazines typically retailing for between ten and fifteen cents an issue. As in the case of medical vibrators, models adapted to both ac and dc current were more expensive than those for use with dc only; all were fitted with screw-in plugs through the twenties.

All types of vibrators were advertised as benefiting health and beauty by stimulating the circulation and soothing the nerves. The makers of the electromechanical American vibrator, for example, recommended their product as an ". . . alleviating, curative and beautifying agent . . . It will increase deficient circulation—develop the muscles—remove wrinkles and facial blemishes, and beautify the complexion."[30] Advertisements directed to make purchasers similarly emphasized the machine's advantages for improving woman's appearance and disposition. An ad in a 1921 issue of Hearst's urges the considerate husband to "Give 'her' a Star for Christmas" on the grounds that it would be "A Gift That Will Keep Her Young and Pretty." The same device was listed in another advertisement with several other electrical appliances, and labelled "Such Delightful Companions!"[31] A husband, these advertisements seem to suggest, who presented his wife with these progressive and apparently respectable medical aids might leave for work in the morning secure in the knowledge that his spouse's day would be pleasantly and productively invested in self-treatment. Like other electrical appliance advertising of the time, electromechanical vibrator ads emphasized the role

of the device in making a woman's home a veritable Utopia of modern technology, and its utility in reducing the number of occasions, such as visiting her physician, on which she would be required to leave her domestic paradise.[32]

Advertisements for vibrators often shared magazine pages with books on sexual matters, such as Howard's popular Sex Problems in Worry and Work and Walling's Sexology, handguns, cures for alcoholism and, occasionally, even personals, from both men and women, in which matrimony was the declared objective. Sexuality is never explicit in vibrator advertising; the tone is vague but provocative, as in the Swedish Vibrator advertisement in Modern Priscilla of 1913, offering "a machine that gives 30,000 thrilling, invigorating, penetrating, revitalizing vibrations per minute . . . Irresistible desire to own it, once you feel the living pulsing touch of its rhythmic vibratory motion." Illustrations in these layouts typically include voluptuously proportioned women in various states of déshabillé. The White Cross vibrator, made by a Chicago firm that manufactured a variety of small electrical appliances, was also advertised in Modern Priscilla, where the maker assured readers that "It makes you fairly tingle with the joy of living."[33] It is worth noting that the name "White Cross" was drawn from that of an international organization devoted to what was known in the early twentieth century as "social hygiene," the discovery and eradication of masturbation and prostitution wherever they appeared. The Chicago maker of White Cross appliances, in no known way affiliated with the organization, evidently hoped to trade on the name's association with decency and moral purity.[34] A 1916 advertisement from the White Cross manufacturer in American Magazine nevertheless makes the closest approach to explicit sexual claims when it promises that "All the keen relish, the pleasures of youth, will throb within you."[35] The

utility of the product for female masturbation was thus consistently camouflaged.

Electromechanical vibrator advertising almost never appeared in magazines selling for less than 5 cents an issue (10 to 20 cents is the median range) or more than 25 cents. Readers of the former were unlikely to have access to electrical current; readers of the latter, including, for example, Vanity Fair, were more likely to respond to advertising for spas and private manual massage. While at least a dozen and probably more than twenty U.S. firms manufactured electromechanical vibrators before 1930, sales of these appliances were not reported in the electrical trade press. A listing from the February 1927 NELA Bulletin is typical; no massage equipment of any kind appears on an otherwise comprehensive list that includes violet-ray appliances.[36] A 1925 article in Electrical World, under the title "How Many Appliances are in Use?", lists only irons, washing machines, cleaners, ranges, water heaters, percolators, toasters, waffle irons, kitchen units and ironers.[37] Scientific American listed in 1907 only the corn popper, chafing dish, milk warmer, shaving cup, percolator and iron in a list of domestic electrical appliances.[38] References to vibrators were extremely rare even in popular discussions of electrical appliances.[39] The U.S. Bureau of the Census, which found 66 establishments manufacturing electro-therapeutic apparatus in 1908, does not disaggregate by instrument type either in this category or in "electrical household goods." The 1919 volume, showing the electromedical market at a figure well over \$2 million, also omits detailed itemization. Vibrators appear by name in the 1949 Census of Manufactures, but it is unclear whether the listing for them, aggregated with statistics for curling irons and hair dryers, includes those sold as medical instruments to physicians.[40] This dearth of data renders sales tracking of the electromechanical vibrator extremely difficult. The omissions from engineering literature

are worth noting, as the electromechanical vibrator was one of the first electrical appliances for personal care, partly because it was seen as a safe method of self-treatment.[41]

The marketing strategy for the early electromechanical vibrator was similar to that employed for contemporaneous and even modern technologies for which social camouflage is considered necessary. Technologically, the devices so marketed differ from modern vibrators sold for explicitly sexual purposes only in their greater overall weight, accounted for by the use of metal housings in the former and plastic in the latter. The basic set of vibratodes is identical, as is the mechanical action. The social context of the machine, however, has undergone profound change. Liberalized attitudes toward masturbation in both sexes and increasing understanding of women's sexuality have made social camouflage superfluous.

In the case of the vibrator, the issue is one of acceptability, but there are many examples of similarly marketed technology of which the expected use was actually illegal. One of these, which shares with the vibrator a focus on women's sexuality, was that of "emmenagogues" or abortifacient drugs sold through the mail and sometimes even off the shelf in the first few decades of this century. Emmenagogues, called in pre-FDA advertising copy "cycle restorers," were intended to bring on the menses in women who were "late." Induced abortion by any means was of course illegal, but late menses are not reliable indicators of pregnancy. Thus, women who purchased and took "cycle restorers" might or might not be in violation of antiabortion laws; they themselves might not be certain without a medical examination. The advertising of these commodities makes free use of this ambiguity in texts like the following from Good Stories of 1933:

Late? End Delay—Worry. American Periodic Relief Compound double strength tablets combine

Safety with Quick Action. Relieve most Stubborn cases. No Pain. New discovery. Easily taken. Solves women's most perplexing problem. RE-LIEVES WHEN ALL OTHERS FAIL. Don't be discouraged, end worry at once. Send \$1.00 for Standard size package and full directions. Mailed same day, special delivery in plain wrapper. American Periodic Relief Compound Tablets, extra strength for stubborn cases. \$2.00. Generous Size Package. New Book free.[42]

The rhetoric here does not mention the possibility of pregnancy, but the product's selling points would clearly suggest this to the informed consumer through the mentions of safety, absence of pain, and stubborn cases. The readers of the pulp tabloid Good Stories clearly did not require an explanation of "women's most perplexing problem."

Distilling technology raises similar issues of legality. During the Prohibition period, the classified section of a 1920 Ainslee's sold one and four gallon copper stills by mail, advising the customer that the apparatus was "Ideal for distilling water for drinking purposes, automobile batteries and industrial uses."[43] Modern advertisements for distilling equipment contain similar camouflage rhetoric, directing attention away from the likelihood that most consumers intend to employ the device in the production of beverages considerably stronger than water.[44]

Although changes in sexual mores have liberated the vibrator, social camouflage remains necessary for stills and many other modern commodities, including drug paraphernalia. The Deering Prep Kit, for example, is advertised at nearly \$50 as a superlative device for grinding and preparing fine powders, "such as vitamin pills or spices."[45] Burglary tools are marketed in some popular (if lowbrow) magazines with the admonition that they are to be used only to break into one's own home or automobile, in the event of having locked oneself out. The camouflage rhetoric seems to suggest that all prudent drivers and homeowners carry

such tools on their persons at all times. Most recently, we have seen the appearance of computer software for breaking copy protection, advertised in terms that explicitly prohibit its use for piracy, although surely no software publisher is so naive as to believe that all purchasers intend to break copy protection only to make backup copies of legitimately purchased programs and data.[46] As in vibrator advertising, the product's advantages are revealed to knowledgeable consumers in language that disclaims the manufacturers' responsibility for illegal or immoral uses of the product.

The marketing of socially camouflaged technologies is directed to consumers who already understand the design purpose of the product, but whose legally and/or culturally unacceptable intentions in purchasing it cannot be formally recognized by the seller. The marketing rhetoric must extoll the product's advantages for achieving the purchaser's goals—in the case of the vibrator, the production of orgasm—by indirection and innuendo, particularly with reference to the overall results, i.e., relaxation and relief from tension. The same pattern emerges in the advertisement of emmenagogues: according to the manufacturer, it is "Worry and Delay" that are ended, not pregnancy. In the case of software copyright protection programs, drug paraphernalia and distilling equipment, the expected input and/or output are simply misrepresented, so that an expensive finelycalibrated scale with its own fitted carrying case may be pictured in use in the weighing of jelly beans. As social values and legal restrictions shift, the social camouflaging of technologies may be expected to change in response, or to be dispensed with altogether, as in the case of the vibrator.

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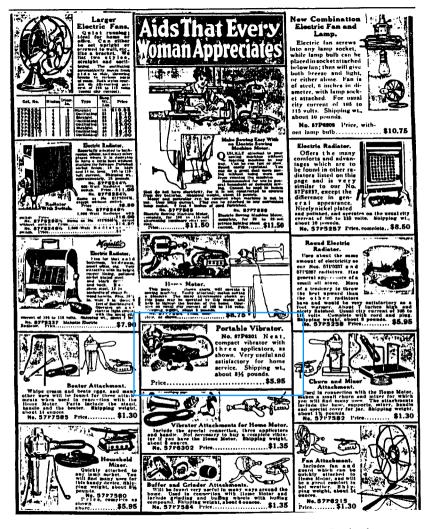


Fig. 24. "Aids That Every Woman Appreciates," Sears, Roebuck and Company, 1918.

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