

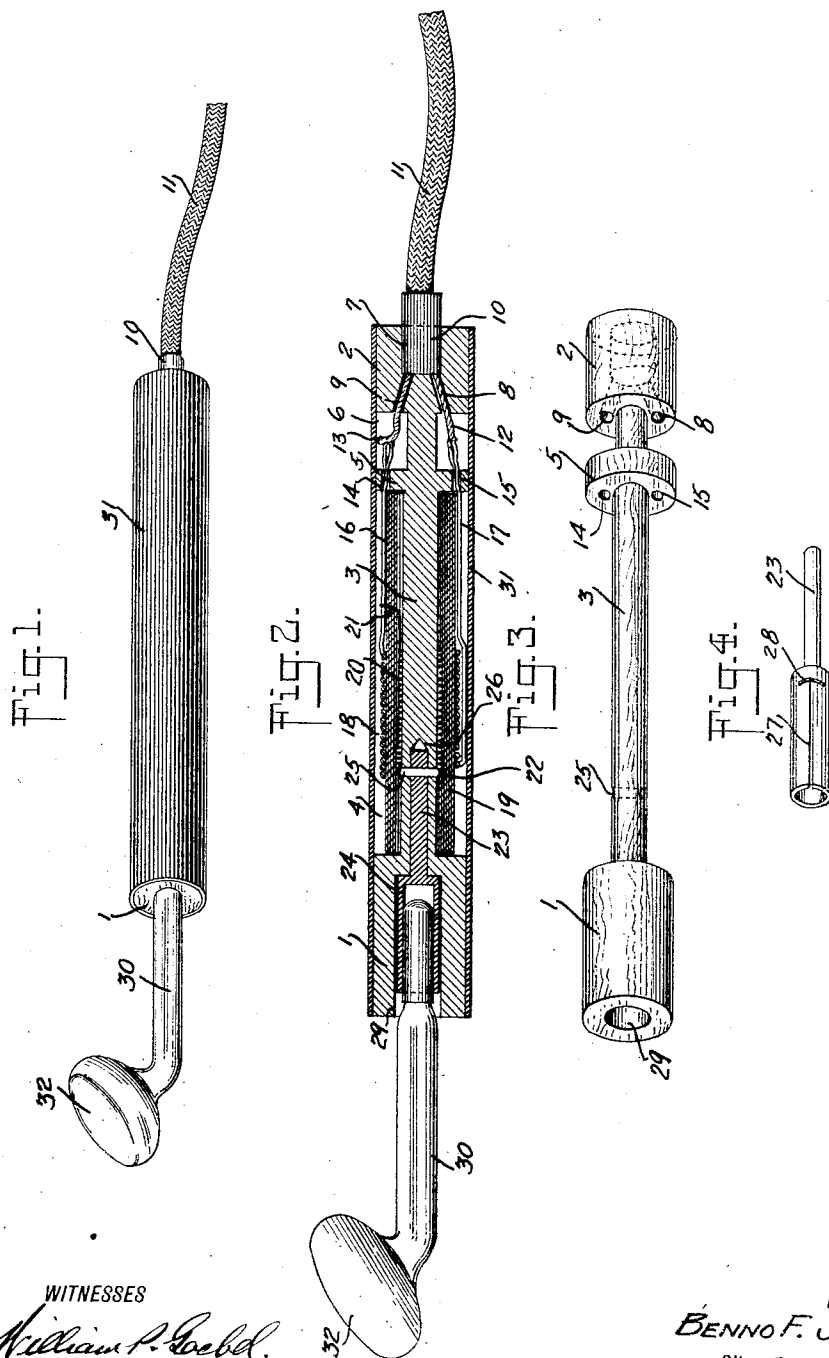
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COIL SUPPORT FOR HIGH TENSION DEVICES

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COIL SUPPORT FOR HIGH-TENSION DEVICES.

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To all whom it may concern:

Be it known that I, BENNO F. JANCKE, a citizen of Germany, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Coil Support for High-Tension Devices, of which the following is a full, clear, and exact description.

This invention relates to coil supports for high tension devices, and has particular reference to such devices as are used for the application of electrical rays to body surfaces in the treatment of diseases or affections of the skin.

An object of the invention resides in the construction of a coil support in such manner that it can be used as a handle for the device and in which the cost of manufacture is reduced to a minimum by the simplicity of construction.

Another object resides in the provision of means whereby the handle and coil support can be very readily assembled and disassembled for adjustment and repair.

A further object resides in the particular construction and arrangement of parts which are hereinafter described and claimed and shown in the accompanying drawings. The invention is illustrated in the drawings, of which—

Figure 1 is a perspective view of the device;

Figure 2 is a longitudinal section thereof;

Figure 3 is a perspective view of the coil support or spindle before the coil is wound thereon; and

Figure 4 is a perspective view of the electrode socket.

The invention as shown in the drawings is a preferred form of my invention, although it is to be understood that variations in the arrangement and construction of the parts and in the kind of materials used may be made in this device without departing from the operative spirit of the invention as set forth.

The device comprises essentially a body spindle having head portions 1 and 2 and an intermediate portion 3 of considerably reduced diameter forming a hollow annular chamber 4 in which the coil is mounted. A collar 5, preferably integral with the body portion, is provided and spaced from

the head portion 2 to form a hollow chamber 6 in which suitable connections to the coil are very readily disposed and made. An aperture 7 and passageways 8 and 9 are provided in the head portion 2, the first for the terminal plug 10 of a suitable cable 11 containing the wires, and the latter disposed to receive the individual wires 12 and 13 which extend into the chamber 6. The collar 5 is provided with apertures 14 and 15 through which extend conductors 16 and 17 forming the ends of a primary coil 18. This primary coil is wound over a plurality of layers of insulating material 19, such as suitably prepared paper, beneath and between which are wound any suitable number of layers of a secondary coil 20. This secondary coil is disposed, therefore, between the reduced portion 3 of the spindle and the primary coil 18. One end of the secondary coil is connected by a conductor 21 to a primary wire such as 16. The other end of the secondary coil is connected by a pin 22 to the end 23 of a socket portion 24. The pin 22 is disposed to fit snugly in an aperture 25 in the reduced portion of the spindle 3 leading to a narrow bore 26 adapted to receive the extension 23 of the socket portion 24. The socket 24 is made of any suitable conducting material, the main body portion of which is in the form of a hollow cylinder split as at 27 and 28 to provide the desired amount of flexibility. This body portion of the socket 24 is disposed within a larger bore 29 extending in from the end of the head 1. Any suitable electrode or connection, such as 30, may be inserted in the socket 24 to make proper connections to the coil. A suitable cylindrical sleeve 31 is slipped over the head portions 1 and 2 and the collar 5 to provide a cover for the device as well as to act as a handle portion. This cover may be of any suitable material, such as a heavy grade of paper.

This device acting as a coil support and a handle portion for the electrode 30 is especially applicable for use in connection with the application of high frequency electricity in the treatment of various diseases. The electrode 30 is shown in the form of a glass tube having an enlarged head portion 32 which, as is customary, is passed over the surface to be treated.

It will, therefore, be apparent from a consideration of the description of the con-

struction above set forth that the body portion of the coil support can be made, preferably of wood, out of one piece of material which can be very readily turned down to the proper form on a wood turning lathe. The application of the coil to the intermediate portion of reduced diameter in the manner well known is a comparatively simple proceeding, and the coil fits snugly in this space without enlarging the size of the body portion beyond its original dimensions. The provision of the hollow chamber 6 gives ample space for making the necessary electrical connections. The provision of a simple sleeve of any suitable material to slip over the spindle not only forms a cover but a neat appearing and efficient handle portion whereby the device may be readily manipulated. The entire construction is reduced to the simplest elements possible and, consequently, the assembly and repair are made very easy and the cost of manufacture is reduced to a minimum.

What I claim is:

25 1. A handle portion for therapeutic devices, which comprises a spindle having a plurality of portions of reduced diameter to form chambers, a transformer coil mounted on one portion of reduced diameter, another portion of reduced diameter forming a chamber in which cylindrical connections to said coil can be made, said spindle at one end having a bore, a socket disposed in said bore, and a connection between the end of said socket and said transformer.

30 2. A handle portion for therapeutic devices, which comprises an integral spindle of wood having enlarged head portions at each end and a collar portion of enlarged diameter spaced from one of said head portions, a transformer coil mounted on the spindle between the head portion and said collar, one of said head portions having a bore and apertures leading therefrom, a cable disposed in said bore the wires of which project through said apertures, said collar having apertures through which the leads from the transformer coil extend and connect with the wires from the cable in the space between the collar and the head, and

a sleeve disposed over the spindle to form a handle portion and a cover therefor.

3. A handle portion for therapeutic devices, which comprises a wooden spindle having a portion intermediate its ends of reduced diameter, a transformer coil mounted on said portion of reduced diameter, the end of said spindle provided with a bore extending inwardly therefrom, a hollow cylindrical socket portion disposed in said bore having an integral portion extending inwardly therefrom, and a connection between said extension and one of the transformer coils.

4. A handle portion for therapeutic devices, which comprises a wooden spindle having enlarged head portions at each end thereof and an enlarged collar portion spaced from one of said head portions, one of said head portions provided with a bore to receive a socket and with an aperture extending from the bottom of said bore inwardly along the spindle, the spindle provided with a transverse passageway leading to the end of said aperture, the other of said head portions provided with a bore to receive a cable and with passageways leading from the bottom of the bore to the inner face of the head adjacent the collar, said collar portion provided with apertures to permit the passage of electrical wires extending from a coil mounted on the main portion of the spindle into the space between the wire and the head portion.

5. A handle portion for therapeutic devices, which comprises an integral spindle having an enlarged head portion with a bore therein and a passageway leading from the bottom of said bore inwardly along the spindle, a hollow cylindrical socket disposed in said bore having an extended portion leading therefrom along said passageway, said socket being split, said spindle having a transverse aperture across said passageway, and a pin disposed in said transverse aperture and passing through the extension of the socket to make electrical connections therewith and also to lock the socket in the bore.

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