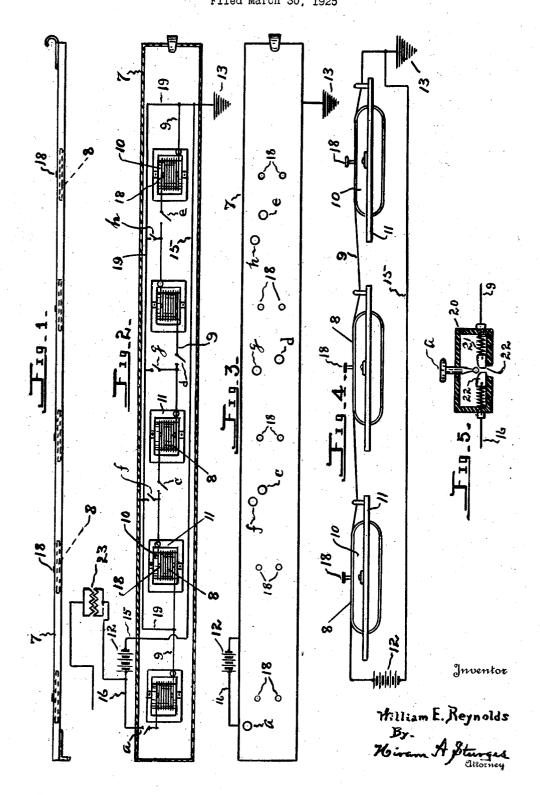
ELECTRICAL HEALTH APPLIANCE Filed March 30, 1925



UNITED STATES PATENT OFFICE.

WILLIAM E. REYNOLDS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO WILSON T. GRAHAM, OF OMAHA, NEBRASKA.

ELECTRICAL HEALTH APPLIANCE.

Application filed March 30, 1925. Serial No. 19,288.

to provide an appliance for producing a gentle heating effect on the human body tend-

While useful for humans, the device may be used for animals and may be applied to any desired part of the body; also the electrical supply employed may be any desired source.
With the foregoing objects in view the in-

vention presents a novel and useful construction, combination and arrangement of parts as described herein and claimed, and as illustrated in the accompanying drawing, it being 15 understood that changes in form, size, proportion of parts and minor details may be made as found to be of advantage, said changes being determined by the scope of the invention as claimed.

In the drawing, which illustrates one embodiment of the invention, Fig. 1 is an edgewise view of a belt used as a support and in which are carried certain electrical devices. Fig. 2 is a side or plan view of the same, one side of the belt being removed to clearly show the electrical devices therein. Fig. 3 shows the inner side of the belt or support. Figs. 4 and 5 are enlarged details relating to Fig. Fig. 4 is a diagrammatic view showing electrical heat coils, the electrical switches being omitted. Fig. 5 illustrates a preferred construction for an electrical switch.

Referring now to the drawing for a more particular description, the invention is shown and described in connection with a belt or support 7 of any suitable size or proportion adapted to be applied to a living body for communicating a heating effect thereto, and while a belt is specifically mentioned, any other kind of support may be employed which will be convenient in use and depending upon the particular part of the body upon which it is to be placed.

In order that the benefits first mentioned may be attained I employ an electrical coil or a plurality of electrical coils 8 and dispose them at longitudinal intervals in the support or belt 7 which may be made of any kind of flexible material, said coils consisting of an electrical conductor 9 wound upon and is unnecessary to heat the entire surface of extending between spools 10 which are mounted on frames 11 embedded in the support 7, said conductor 9 being adapted to be electri- gentle so that no discomfort will be in-cally energized by an electrical battery 12, curred in wearing the belt. It is this gentle

This invention has for its object, broadly, said battery, at one of its poles, having an 55 electrical conductor 15 in communication with the electrical conductor 9 by an electriing to invigorate and benefit the health of the cal conductor 16 subject to the control of an electrical switch a.

It will be seen that the electric switch b may 60 remain open at a time when the electric switch a is closed, the electric switches c, d and e also be closed, and this arrangement of parts may be made for utilizing an electric circuit of any required degree of electrical force.

Also the device provides means for utilizing various degrees of electrical energy, this being important since a mild treatment may be desired in some instances and a severe treatment required in other instances, depend-70 ing upon the physical condition of the user. Numeral 19 indicates an electrical conductor provided with electrical switches f, g and h, and any one of these switches may be used and may be closed to provide an electrical 75 communication with the electrical conductor It will be seen that an electrical circuit may be established through a single coil, or through two or more coils, as may be desired.

While the several switches may be oper- 80 ated by any suitable means, push-pins may be conveniently used, one of these pins being indicated at a in Fig. 5 of the drawing, and adapted to be pushed inwardly of an insulating frame 20, against the force of springs 21, 85 into engagement with a pair of electrical contact-blocks 22 for establishing an electrical circuit. The heads of these pins are disposed at the inner side of the support 7, as shown in the drawings but may be disposed at the 90 outer side of the support if desired. In the use of the device, after the switches have been adjusted, the support 7 is placed on the body of the wearer.

The coils 8 when energized produce a gen- 95 tle heating effect and by manipulation of the switches this heating may be localized so that the energy of the battery may be distributed through all of the coils or through This heat- 100 any selected group of the same. ing of the coils applies heat to the body at the desired points where the belt is located and by means of the novel control of the coils it the body entirely around within the belt. The coils are constructed so that the heat is gentle so that no discomfort will be inconstant application of heat which is bene- connected to said first wire between said first is applied.

I claim as my invention,—

An electric heating belt comprising a flexible body portion adapted to be secured of the body for manipulation in selectively against the portion of the body to be treated, controlling the coils, and other switches bea plurality of electric heating coils mounted tween said first wire near said first switches in the body portion and spaced lengthwise and said branch wire and having exposed thereof, a wire connecting said coils in series, parts operable from the outer side of the body 25 a battery, a switch disposed between one side to optionally close selected coils in circuit of the battery and one of the end coils, a wire with the battery. leading from the other side of the battery and connected to the other end coil and having a signature. 15 branch wire extending along said coils and

ficial to the part of the body to which the belt end coil and the adjacent intermediate coil, switches in said wire between the intermediate and the opposite end coils and having movable parts exposed through the outer side 20

In testimony whereof, I have affixed my

WILLIAM E. REYNOLDS.