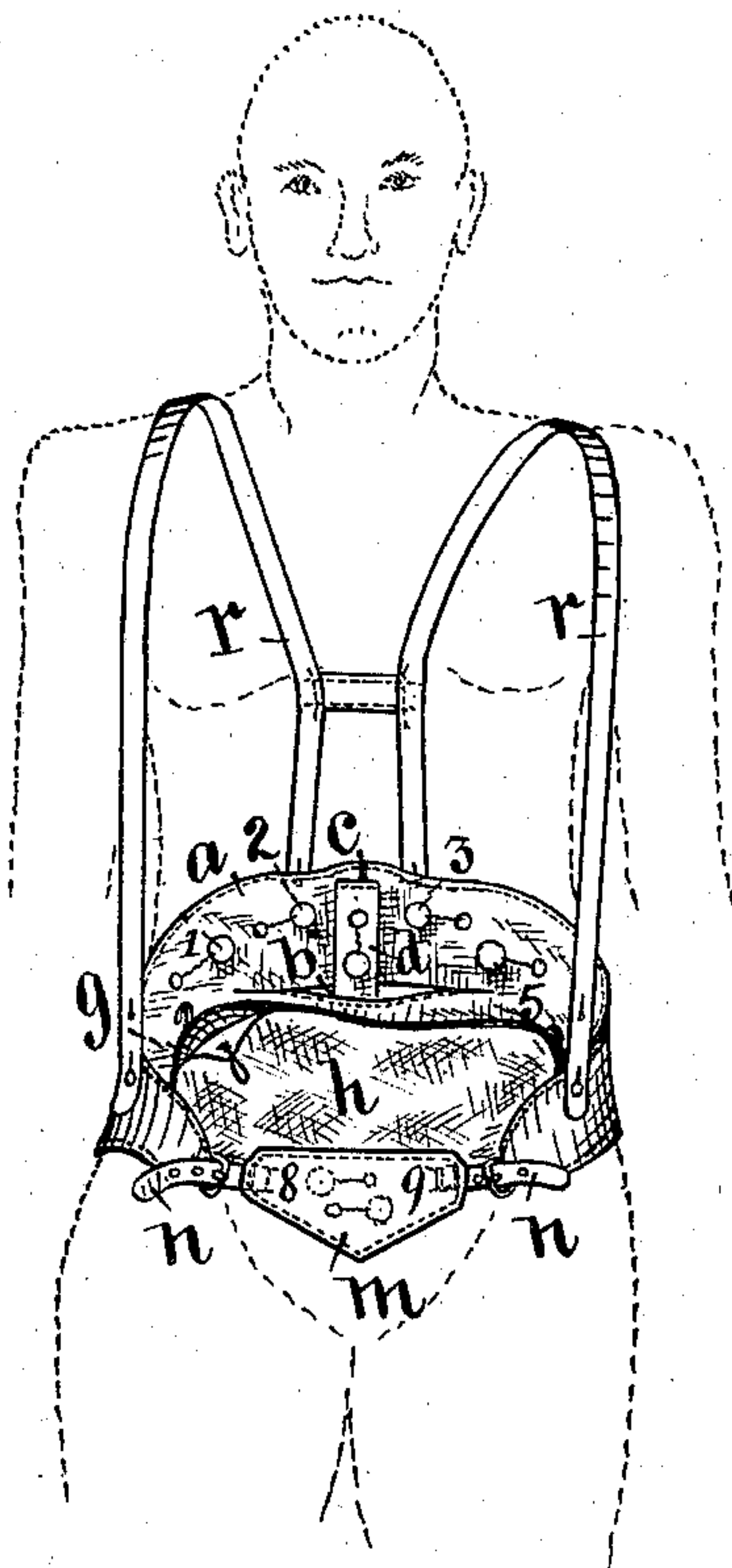


J. HOBBS.
ELECTRO THERAPEUTIC BELTS.

N^o. 194,520.

Patented Aug. 28, 1877.



Witnesses :
John Penn.
Arthur Stimson.

Inventor :
John Hobbs,
By Thomas G. Orwig,
Attorney.

UNITED STATES PATENT OFFICE.

JOHN HOBBS, OF DES MOINES, IOWA.

IMPROVEMENT IN ELECTRO-THERAPEUTIC BELTS.

Specification forming part of Letters Patent No. **194,520**, dated August 28,th 1877; application filed April 23, 1877.

To all whom it may concern:

Be it known that I, JOHN HOBBS, of Des Moines, in the county of Polk and State of Iowa, have invented an apparatus for simultaneously applying electricity and medicine to invigorate the human body, of which the following is a specification:

The object of my invention is to provide a simple, durable, and convenient means of applying to the human body the cumulative vitalizing force of a series of independent galvanic batteries, and also, at the same time, the restorative and invigorating medical properties of ointments that can be administered by cutaneous absorption.

It consists in forming, arranging, and combining in a sectional belt a series of independent batteries, a fixed pad having a removable cover, and a suspending device, in such a manner as to produce a complete article of manufacture, that can be readily applied, adjusted, and secretly worn next to the skin without inconvenience to the wearer, all as hereinafter fully set forth.

My drawing is a perspective view, illustrating the construction and application of my complete apparatus.

a is the main section of my belt, and the portion that is designed to be fitted to the back of the wearer to cover the lumbar region of the vertebræ, to effect the nervous system with electricity through the spinal cord, and the secretory system with ointments through the kidneys. It is made of leather or any suitable flexible material, and covered with suitable cloth, and may vary in size and configuration, as desired.

b is a horizontal slot in the central portion of the section *a*.

c represents a vertical seam, and indicates that a gore has been taken out to fit the upper portion of this section of the complete belt close to the back of the wearer, as required, to bring the electric disks into constant contact with the body.

d is a strap covering the vertical seam *c*, and secured by stitching or in any other suitable way, so as to connect the severed por-

tions of the section *a*, and form a hinge-joint at the horizontal slot *b*.

1 2 3 5 represent a series of independent galvanic or voltaic batteries secured to the upper portion of the section *a* in such a manner that the surfaces of the negative and positive disks will be on the inside. These disks are preferably zinc and silver, and connected by means of copper wires concealed under the lining. They may vary in size and number, as desired, to suit various persons or the variable condition of the same person.

g represents a pad, preferably buckskin stuffed with hair, fixed to the under portion of the belt-section *a*.

h is a removable cover, secured to the pad with loops and hooks at the corners. The kidney-fat of animals impregnated with iron and other medicines and other ointments are spread upon the covers *h* of the pad, and therewith applied to the body. By means of a series of removable covers fresh ointments and clean covers can be daily applied upon the same pad.

m represents the front section of my complete belt designed to fit over the abdomen and to extend downward to cover and affect the genital organism of the wearer, male or female. It is connected with the ends of the section *a* by means of straps and buckles *n*, in such a manner that the complete belt can be readily lengthened and shortened and opened and closed, as required, to be properly adjusted and worn.

8 9 represent a series of independent batteries similar to those on section *a*.

r r represent a pair of adjustable suspenders, connected with my complete belt in such a manner as to fit over the shoulders of the wearer, and to retain the belt in proper position.

I am aware that electric chain-belts and medicated pads have been used separately for similar purposes. But I claim that my manner of combining series of independent batteries and a pad having a removable cover to simultaneously apply electricity and medicated ointments at the same time, and with

one and the same apparatus, is a novel and valuable improvement.

I claim as my invention—

As an improved article of manufacture, the apparatus composed of the belt-section *a*, having the slot *b*, hinge-strap *d*, and series of batteries 1 2 3 5, the pad *g*, and its removable cover *h*, the belt-section *m*, hav-

ing a series of batteries, 8 9, and connecting- straps *n n*, and the suspenders *r r*, substantially as and for the purposes shown and described.

JOHN HOBBS.

Witnesses:

ARTHUR STIMSON,
E. R. MUNK.