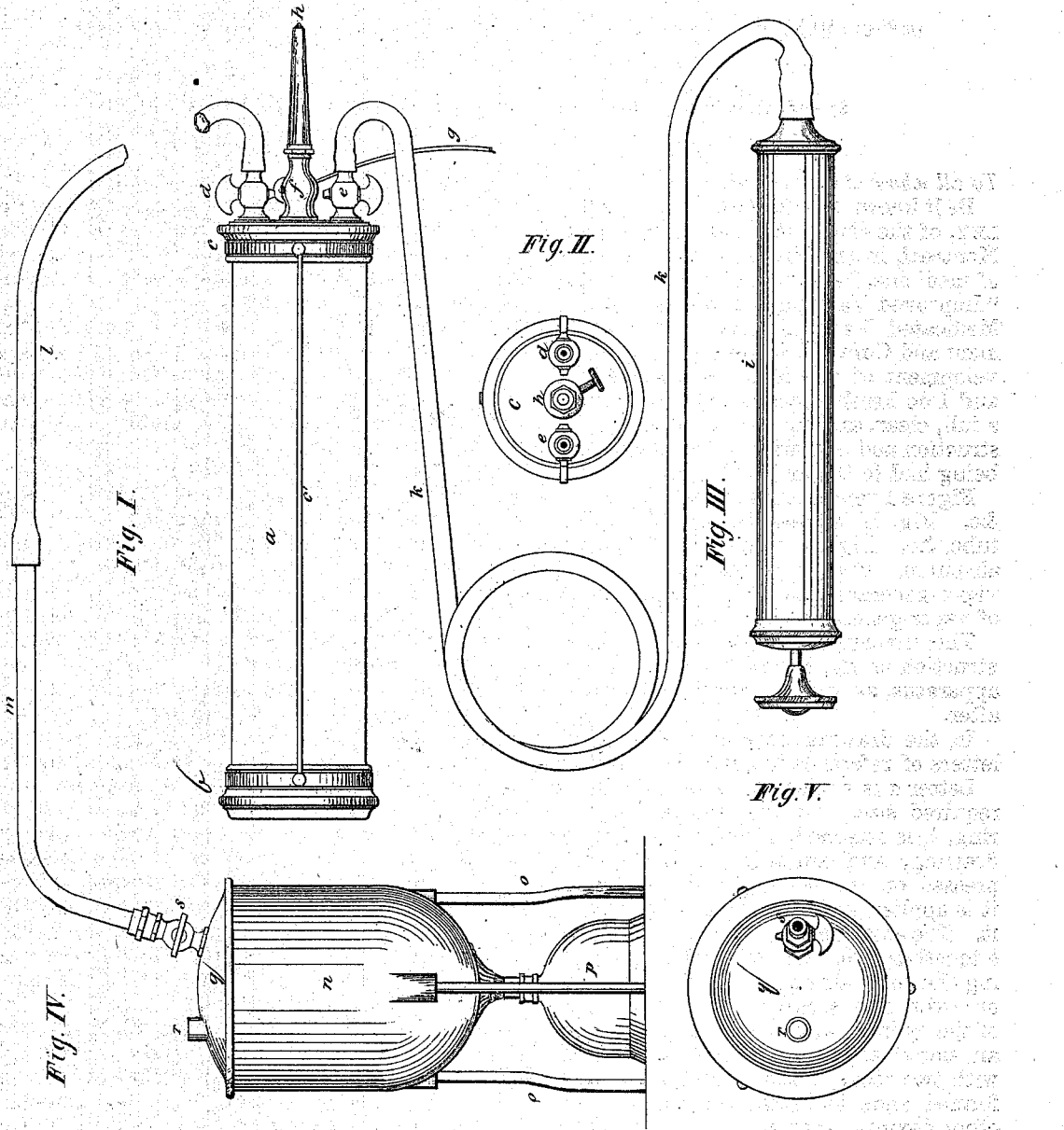


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Improvement in Apparatus for Electrical Vacuum and Vapor Treatment.

No. 115,137.

Patented May 23, 1871.



Witnesses.
Charles Legge
Charles L. Simpson

Inventor.
Maurice Howell Utley

UNITED STATES PATENT OFFICE

MAURICE HOWELL UTLEY, OF MONTREAL, CANADA.

IMPROVEMENT IN APPARATUS FOR ELECTRICAL, VACUUM, AND VAPOR TREATMENT.

Specification forming part of Letters Patent No. 115,137, dated May 23, 1871.

To all whom it may concern:

Be it known that I, MAURICE HOWELL UTLEY, of the city of Montreal, in the district of Montreal, in the Province of Quebec, doctor of medicine, have invented a new and useful "Improved Vacuum and Electro-Medical and Medicated Vapor Apparatus for the Treatment and Cure of Diseases and Imperfect Development of the Male Generative Organ;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, where—

Figure I represents a side elevation of tube, &c. Fig. II represents an end elevation of tube, &c. Fig. III represents an elevation of air-pump. Fig. IV represents an elevation of vapor-generator, &c. Fig. V represents a plan of vapor-generator, &c.

This invention consists in the peculiar construction of the receiver of an electro-vapor apparatus, as will be fully described hereinafter.

In the drawing hereunto annexed similar letters of reference indicate like parts.

Letter *a* is a glass tube or cylinder of the required size. On one end of this a metal ring, *b*, is attached, of the form shown in the drawing, and suitably configured to be pressed on the portion of the body to which it is applied and form an air-tight joint with it. The attachment of the cylinder *a* and ring *b* together is in the ordinary manner, rendering the joint air-tight. In like manner a cap or cover, *c*, is secured to the other extremity of the cylinder *a*, the two being connected by an electrical wire, *c'*. This cap is provided with two cocks, *d* and *e*, having any suitably-formed ends for attaching India-rubber or other flexible tubes upon. *f* is a projection of suitable form for attaching the wire *g* of an electrical battery, and extended, for enabling the patient using it to hold it in the required position after it has been adjusted without the hand being employed for that purpose. This is done by placing the point *h* against any firmly-fixed body or thing, and pressing the body with some force against the other ex-

tremity. To the cock *e* the air-pump *i*, of any suitable construction, is attached by an India-rubber tube, *k*, of required length. To the cock *d* another India-rubber tube, *l*, is attached, connecting with any metal tube, *m*, leading from a vapor-generator.

It may here be remarked that when mercury is to be evaporated the generator will be made of iron in all its parts, and for other medicines any other suitable metal will be used. This remark also applies to the metal of which the air-pump is constructed.

The operation of the invention is as follows: The vapor-generator (shown in Figs. IV and V, but which I do not claim as my invention) having been supplied with the material to be evaporated and heat suitably applied, so that the required vapor is formed, and the hereinbefore-described attachments having been adjusted, the male generative organ is then introduced into the cylinder *a*, which is adjusted and held in the manner hereinbefore described. The patient, having the free use of his hands, may operate upon himself, or another person may do so. Having closed the cocks *s* and *d*, and opened the cock *e* by means of the pump *i*, the air is exhausted to the proper degree. By this action the organ will expand, and the pores of the skin being opened the part is rendered much more susceptible of being acted upon by the vapor. Should electricity be required it may now be applied, or sooner or later, according to the treatment prescribed, it being conducted by the wire *g* to the cap *c*, and by wire *c'* to ring *g*, where it is distributed at the base of the organ, the other wire from the battery being properly arranged for that purpose. The cock *e* being closed, and the cocks *d* and *s* being opened, the vapor is admitted into the cylinder *a* to act upon its contents, and after a proper time has elapsed to allow of this taking place the cylinder may be exhausted again, and a fresh supply of vapor admitted, as before described. This may be repeated any number of times, and the electricity employed at pleasure during the operation.

It is quite evident that the vacuum may be

used with both electricity and vapor, or only with one of either of the two, as the medical man may think proper.

Having now described the construction and operation of my invention, what I claim, and wish secured by Letters Patent, is—

The receiver *a*, provided with the cap *c*, hav-

ing the cocks *d e*, rest *h*, and electrical wire *e'*, as described.

Montreal, 1st day of September, A. D. 1870.

MAURICE HOWELL UTLEY, M. D.

Witnesses:

CHARLES LEGGE,

CHARLES G. C. SIMPSON.