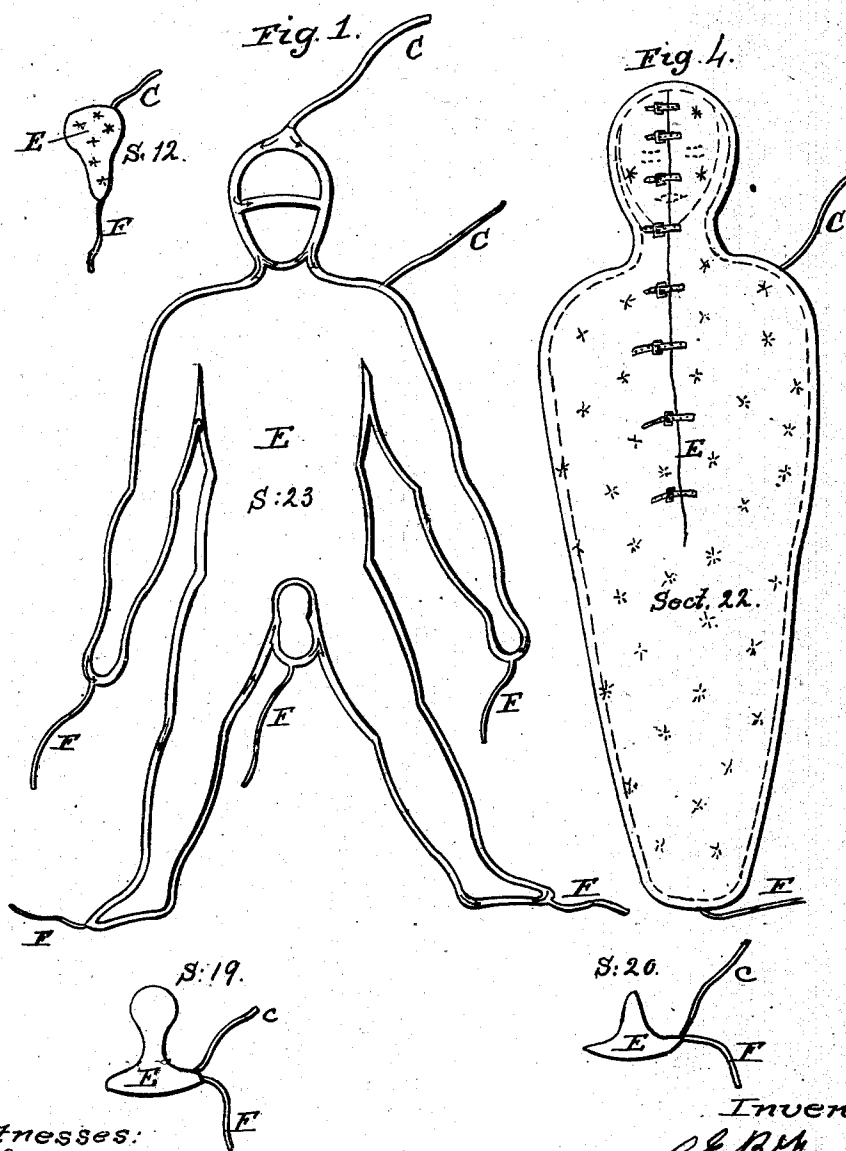


G. E. B. FRENCH.

Apparatus for Medical Application.

No. 26,663.

Patented Jan'y 3, 1860.



Witnesses:
 C. G. Guest
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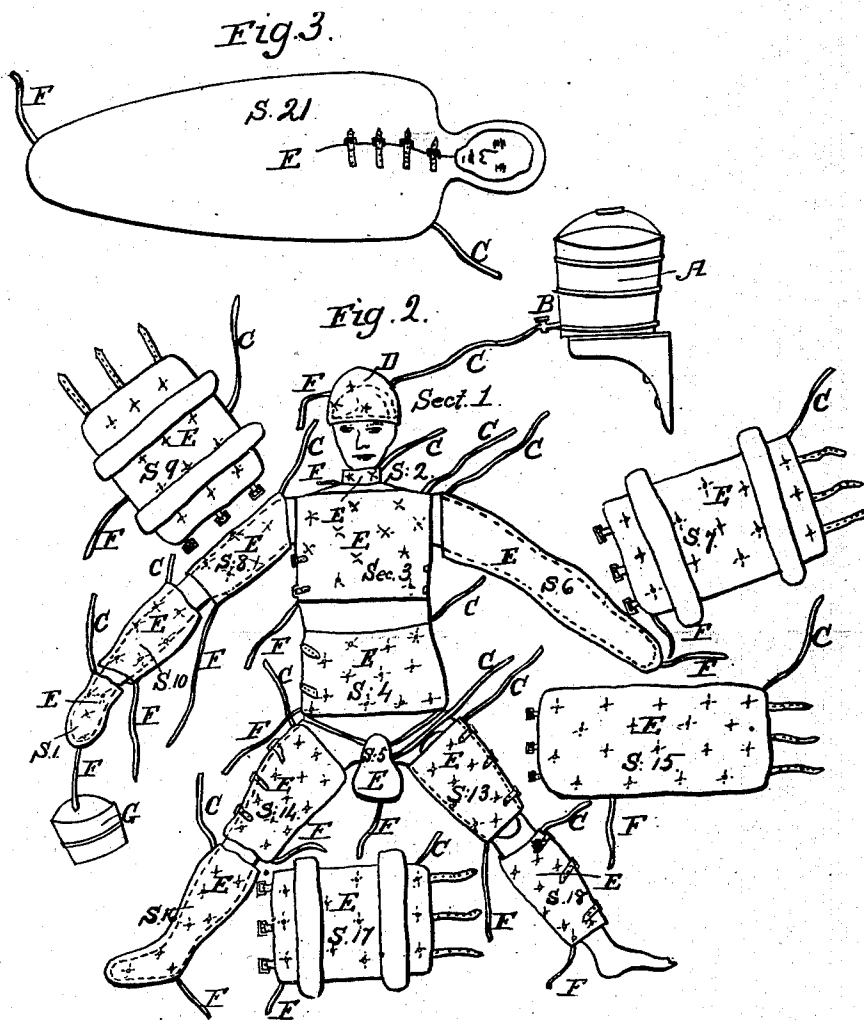
Inventor:
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UNITED STATES PATENT OFFICE.

GEORGE E. B. FRENCH, OF WASHINGTON, DISTRICT OF COLUMBIA.

APPARATUS FOR MEDICAL TOPICAL APPLICATIONS.

Specification of Letters Patent No. 26,668, dated January 3, 1860.

To all whom it may concern:

Be it known that I, GEORGE E. B. FRENCH, of the city of Washington, District of Columbia, have invented a new and Improved Mode of Applying hot, tepid, or cold water or other fluid and hot or cold air to the human body for sanatory and other purposes by means of garments being constructed and made for that purpose, such garments being constructed and made of india-rubber, gutta-percha, or other suitable material; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

A represents a pail or reservoir of hot or cold water, or other fluid, from whence the water &c is applied to the human body.

B represents the water cock which regulates the application of water or fluid.

C represents the upper tube which conveys the water, &c., to the body.

D represents the channel through which the water or other fluid passes.

E represents the dress, or parts of the dress of india rubber &c.; F, the lower tube, is for the purpose of carrying off the water or fluids; this regulates the temperature of either and both; G the lower pail to receive the water from lower tube, which may be placed back into pail A, if required.

Figure 1, represents the garment for the body, and the spaces through which the water or fluid passes. Fig. 2, represents the manner of applying the different sections to various parts of the human body. Fig. 3, shows the bathing dress to be applied to invalids in bed. In this case the water touches the body. Fig. 4, represents a dress which is to be applied to the whole body (during life) for sanatory purposes, and for preserving the body after death by a current as aforesaid; the garments being of a double thickness, with space for hot or cold water, or other fluid; the inner broken line represents the inner thickness of dress; the buckles and straps represent the mode of inclosing the dress by fastening the same to the body.

Section 1 to be applied to the head; section 2 to the throat; section 3 to the chest and back; sections 4 4 to the belly, stomach and back; section 5 to be applied to the strictures; section 6 to the arm; section 7 for application of splints to the lower joints; section 8 cap for the application to amputation of upper joints of the arm; section 9

for the application of splints to the upper joint of arm.

Section 10 represents the cap for lower joint of arm. 60

Section 11 represents the mit for hand and wrist.

Section 12 represents pad to be applied to the womb.

Section 13 represents the application of splints to the thigh. 65

Section 14 represents a cap for amputated thigh bone.

Section 15 represents the section to be applied for freezing limb before amputation; section 16 a legging for application to the feet and legs; section 17 for application of splints to the lower joint of leg. 70

Section 18 represents a cap for amputation to lower limb. 75

Section 19 represents an attachment for the womb.

Section 20 is an attachment to the anus for hemorrhoids &c.

Section 21, being Fig. 3, represents a dress for bathing the invalid in bed as aforesaid. 80

Section 22, being Fig. 4, represents as specified in Fig. 4 aforesaid.

Section 23 represents as specified in Fig. 1.

The nature of my invention consists in making and constructing garments of india-rubber, gutta-percha or other suitable material of a double thickness, so that hot, tepid, or cold water, or other fluid, or hot or cold air, can and may be introduced therein, by means of the pressure of water or inflation of air, and keeping up any even or required temperature by the use of tubes attached thereto, and of the application thereof to the whole or to any part of the human body for sanatory or other purposes. 85 90 95

To enable others skilled in the art to make and use the invention, I will proceed to describe the manner of its construction, and the mode of its operation and application. 100

I construct my garments so as that they may contain any required quantity of hot tepid or cold water, or other fluid, or hot or cold air, in such manner as that either of these may avoid touching the body and may keep up an even temperature by means of tubes attached at each end. The upper tube I attach or introduce into a bucket or other vessel on a table, stand or other elevation; through this tube I introduce hot tepid or cold water, or other fluid, into the vacu-

um between the exterior and interior of the garments aforesaid, and apply the garments containing the hot tepid or cold water or other fluid, or ice water, or hot or cold air to any part or parts of the body according to the nature of the disease, or any other requirements as applicable to the human body. At the lower end the small tube may emit the water or air *ad libitum*, and thus by the continual current of water or air may keep up any required temperature.

These garments, or suit if I may so call it shall be divided into sections, in order to apply either section to the corresponding part of the body for which it is adapted, each sectional garment and the whole suit if required are water and air tight, except through the tubes whence flows the current aforesaid.

The ice cap, or cap for hot or cold water to be applied to the head is constructed that the invalid or patient may not remove it off. Pads can be made to contain ice water to splints. Pads can be made to contain ice water to be applied to amputated limbs,

also may be made in the same manner; tubes with attachments for piles and other diseases for the introduction of hot or cold water &c.; tubes for the womb containing ditto; leggings and sleeves containing hot or cold water for the purpose of producing reaction in the limbs or other parts of the body; also an entire suit for bathing a person in bed which will avoid the lifting or removal of invalids.

What I claim as my invention, and desire to secure by Letters Patent is—

The hereinbefore described adaptation of garments &c. to the human body constructed of india rubber gutta percha, or other suitable material for the purposes hereinbefore set forth and keeping up any even or required temperature by the use of tubes introduced therein and forming a part thereof, or any device substantially the same.

G. E. B. FRENCH.

Signed in presence of—

DANIEL MAJOR,
F. I. MURPHEY.