No. 859,198. PATENTED JULY 9, 1907.

DE FORREST B. CATLIN.

THERAPEUTIC OVEN.

APPLICATION FILED DEC. 17, 1906.

Fig. 1.

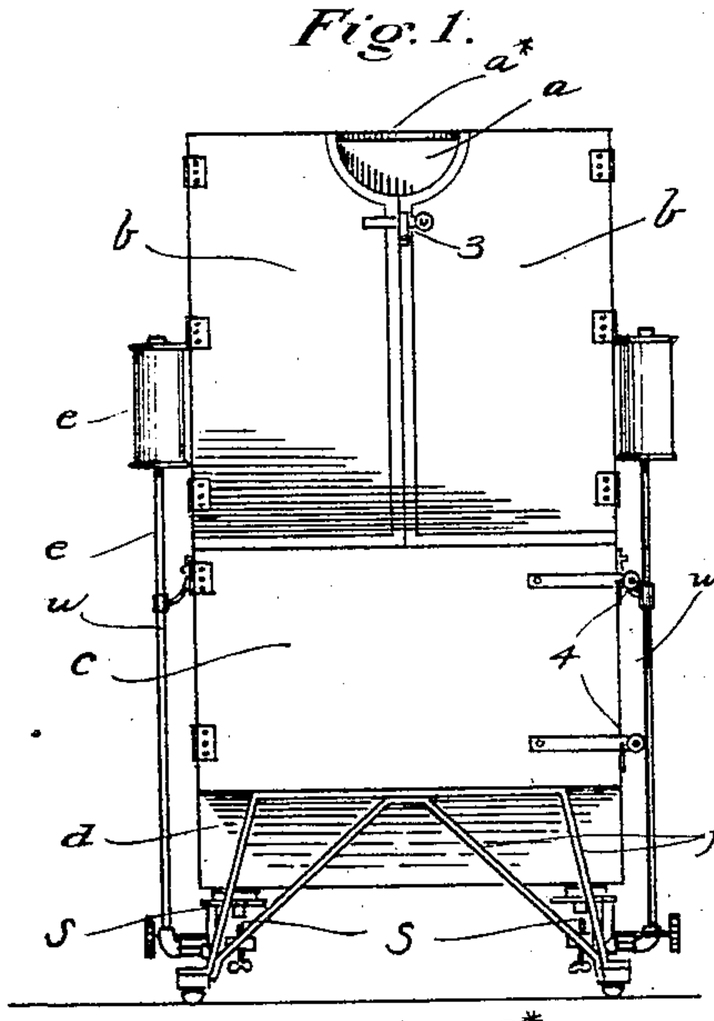

Fig. 2.

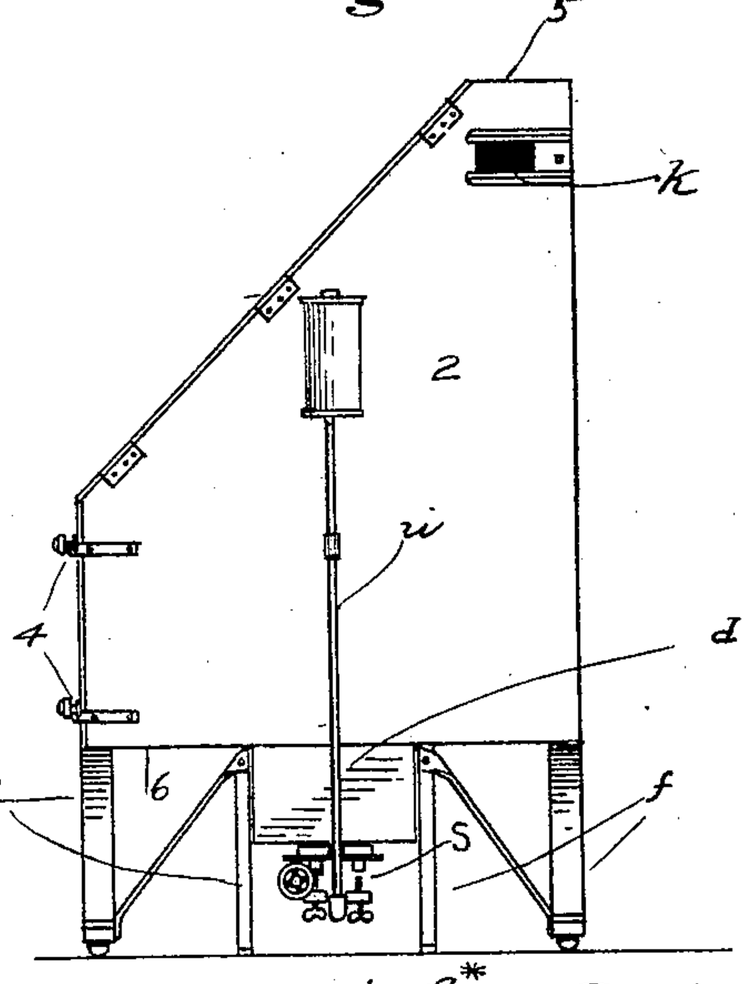

Fig. 3.

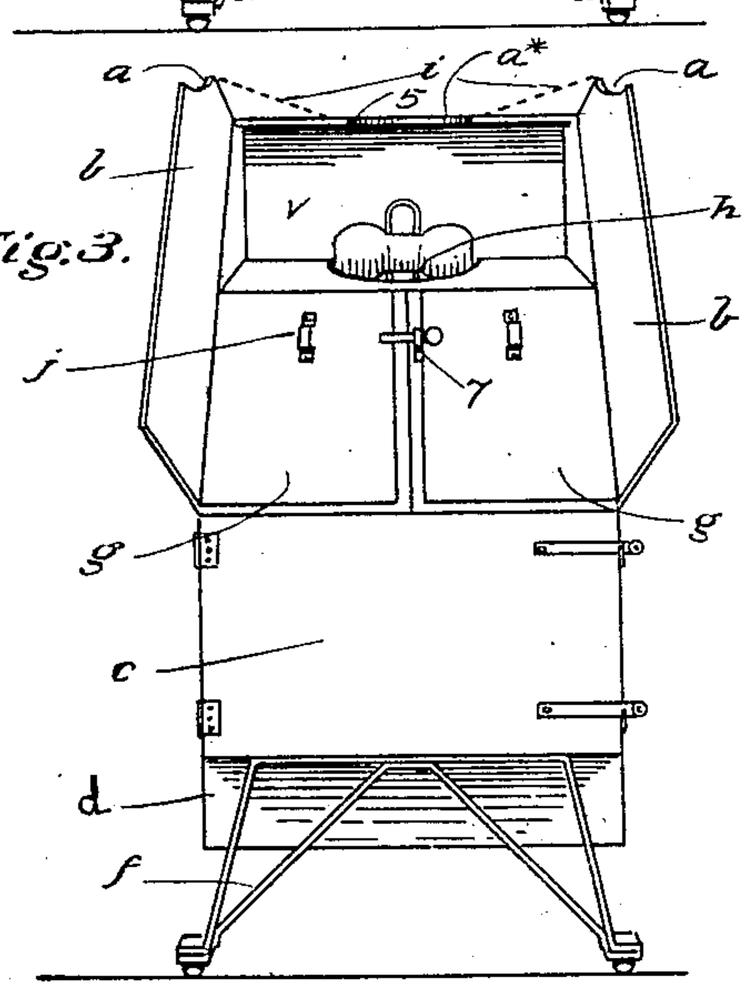

Fig. 4.

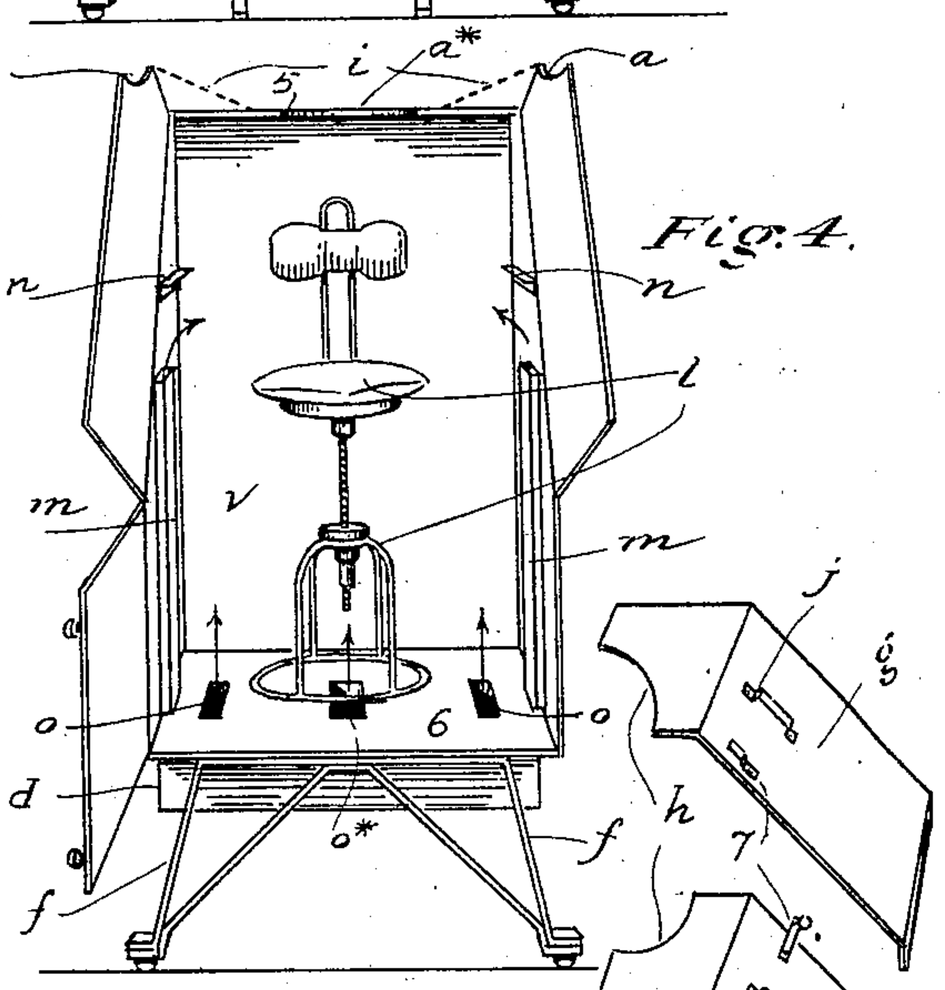

Fig. 5.

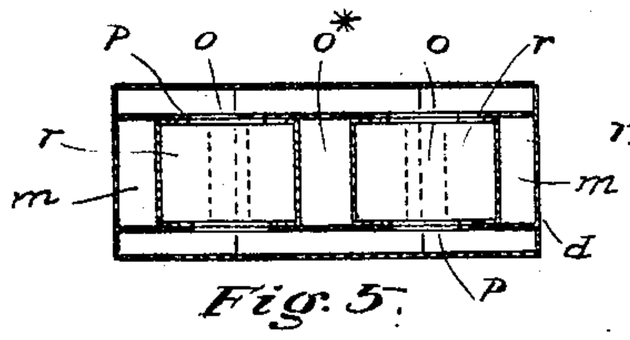

Fig. 6.

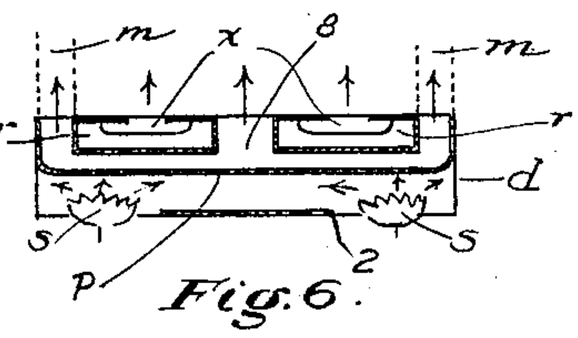

Fig. 7.

Witnesses

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DE FORREST B. CATLIN, OF MANKATO, MINNESOTA.

THERAPEUTIC OVEN.

No. 859,198. Specification of Letters Patent. Patented July 9, 1907.

Application filed December 17, 1906. Serial No. 348,264.

To all whom it may concern:

Be it known that I, DE FORREST B. CATLIN, a citizen of the United States, residing at Mankato, in the county of Blue Earth and State of Minnesota, have invented certain new and useful Improvements in Therapeutic Ovens, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in apparatus by which invalids may be subjected to currents of dry, hot air; and one object of my invention is to provide an apparatus of the class just described, which will be simple in construction and efficacious in its remedial effects.

Another object of my invention lies in the provision of means for controlling and maintaining a temperature sufficiently high for the attainment of maximum of beneficial effects.

One feature of my invention resides in the arrangement of parts whereby the air is introduced into the box-like compartment within which the patient seats himself, and by which the air is heated. Heretofore, so far as known to me, the burners or other heating devices have been placed in the compartment itself, or in niche-like chambers in the compartment. In carrying out my invention the floor of the compartment is provided with openings through which the hot air is admitted from an air-box mounted below the floor of the compartment; the air-box being heated by suitable burners.

Another feature of my invention consists in the provision of means for localizing the application of the heat to the lower part of the body of the patient. To effect this a casing is provided which is mounted in the interior of the compartment and fits around the body of the patient just above his waist, or thereabouts. To distribute the heat as much as possible over the body, air-ducts are provided which lead up from the air-box to about the middle of the compartment.

Other features of my invention will be alluded to in the description which follows hereinafter.

In the drawings illustrating the principle of my invention and the best mode now known to me of applying that principle, Figure 1 is a front elevation of my new therapeutic oven, the doors being shown closed; Fig. 2 is a side-elevation of the same; Fig. 3 is a front view with the upper doors open and the auxiliary casing in place; Fig. 4 is a front view with the auxiliary casing removed and the doors open; and Figs. 5, 6 and 7 are details hereinafter referred to.

The box-like compartment is made up of the back *v*, floor 6, sides 2, top 5, upper doors *b* and lower door *c* and is preferably made of galvanized iron lagged on the inside with any suitable material, such as asbestos. From near the middle of the front edge of each of the side walls 2, the front edge slants upwardly and rearwardly after the manner of an ordinary piano case or box; and to this slanting portion of the front edge is hinged a door *b* formed with a notch *a* which coöperates with the recess *a** cut in the top 5 to form an opening through which projects the head of the patient. To the lower front edge of one of the side walls 2 is hinged the lower door *c*. The upper doors *b* are secured together by the latch members 3, while the lower door *c* is secured to the other of the side walls 2 by the latch 4. To the top 5 of the compartment is secured one end of each of the chains *i*, the other end of which is secured to one of the doors *b*. Each chain *i* serves to limit the outward travel of one of the upper doors *b*, and to support it in its open position.

On each of the inner side walls is secured a bracket *n* which supports the top of one of the auxiliary casing members *g* (see Fig. 7), the lower edge of which rests upon the upper edge of the lower door *c*. The top of each part of the auxiliary casing *g* is formed with a recess, the two recesses combining to form an opening *h* through which the body of the patient passes. Each part *g* is further provided with a handle *j* and the two parts are secured together by means of a latch device 7. By making the casing *g* in two parts, it is more readily handled. The auxiliary casing enables the application of the heat to be localized, as is desirable in those cases in which the lower limbs are to receive the treatment.

As is shown in Fig. 2, an air valve *k* is mounted in the side wall 2 near the top thereof. The inner face of each side wall 2 carries an air-duct *m* the upper end of which opens just below the bracket *n*. The floor 6 is formed with a central opening *o** just above which is mounted the iron revolving stool *l;* and with two side openings *o*. The floor 6 is of galvanized iron, preferably, with inch wood flooring below the galvanized iron for stiffness of structure.

To the bottom of the floor 6 and underneath the latter is mounted an air-box *d* the hot-plate *p* of which is exposed to the flame from the burners *s* fed through the pipes *w* leading from the tanks *e* which contain the liquid fuel. To make room for this air-box *d* and the burners *s* underneath the box-like compartment, the latter is mounted upon the iron legs *f*, which are suitably braced, as shown in the drawings. The chamber 8 above the hot-plate *p* communicates directly with the central opening *o** and the air-ducts *m* and contains the galvanized iron boxes *r* in which are the flues *x* that lead to the openings *o* on each side of the stool.

I claim:

1. A therapeutic oven made up of a box-like compartment the top of which is provided with an opening through which projects the head of the patient; an auxiliary casing

mounted in said compartment and fitting around the body of the patient for the localization of the heat to the lower limbs; and means for introducing hot air into said compartment.

2. A therapeutic oven made up of a box-like compartment provided with a door; an auxiliary casing supported by the walls of said compartment and the top of said door, said casing being formed with a recess within which fits the body of the patient; and air-heating devices connected with said compartment.

3. A therapeutic oven made up of a box-like compartment; an auxiliary casing mounted therein and formed with a recess in its top within which fits the patient's body; air-ducts leading into said compartment and opening below the top of said casing; and air-heating devices connected with said air-ducts.

In testimony whereof I hereunto set my hand in the presence of two witnesses this fourth day of December, A. D., 1906.

DE FORREST B. CATLIN.

Witnesses:
NORMAN L. HURST,
A. ANDERSON.