W. F. ERATH.

HOT AIR BATH.

APPLICATION FILED APR. 4, 1916.

1,190,388.

Patented July 11, 1916.

Fig. 1.

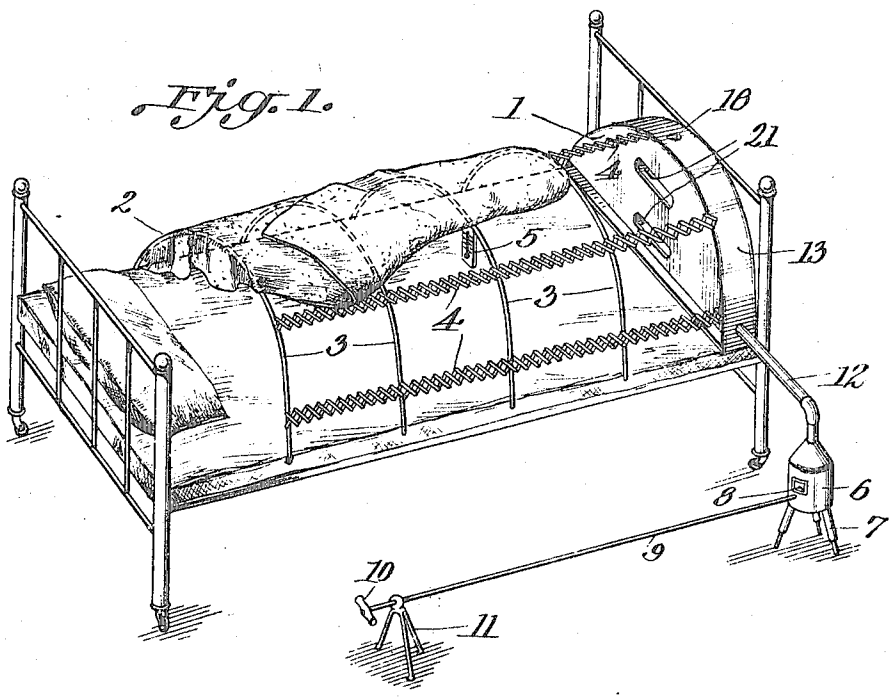
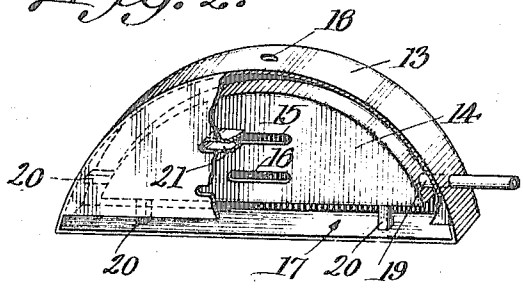


Fig. 2.



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UNITED STATES PATENT OFFICE.

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HOT-AIR BATH.

1,190,388. Specification of Letters Patent. Patented July 11, 1916.

Application filed April 4, 1916. Serial No. 88,955.

To all whom it may concern:

Be it known that I, WILLIAM F. ERATH, a citizen of Germany, residing at Rosebank, in the county of Richmond and State of New York, have invented certain new and useful Improvements in Hot-Air Baths; and I do hereby declare the following to be a full, clear, and exact description of the invention.

My invention relates to hot-air baths, the purpose of which is to apply hot air to the human body to induce perspiration.

The objects of my invention are; first to provide a practical, inexpensive but effective hot-air bath; second, one which can be easily set up and taken down and used by one person on any bed; third, one with a collapsible frame-structure to occupy minimum space for transportation and storage; fourth, one which is adjustable to any sized human body; fifth, one which admits regulations of heat by user while taking bath; sixth, one with perfect hot-air circulation and outlet for "used-up" air; seventh, one which eliminates burning the user and which is fireproof.

The accompanying drawing will describe and illustrate more fully the construction of the hot-air bath for which I claim these objects.

Figure 1 represents a view of a complete hot-air bath appertaining to this invention. Fig. 2 exhibits the heat-concentrating and distributing chamber and its details.

Similar numerals refer to similar parts throughout the two views.

The heat-concentrating and distributing chamber 1 is placed on the foot of a bed; next to it is set a structure 2, consisting of arches 3 which are connected with each other by shears 4; these shears make this frame-structure collapsible and adjustable to any sized body. A thermometer 5 is placed on any one of the arches, best on first arch next to head of user. The frame structure 2 is covered by a blanket.

The heating device, placed beside bed, consists of a galvanized iron drum 6 which is supported on legs 7. These legs are of telescopical nature to make the galvanized iron drum 6 stand higher or lower according to the height of the bed. The heat producer-burner 8 may best consist of an alcohol burner of the type which burns like gas but without any odor. The burner is attached to a bar 9 which has a cross-piece on its end as a handle 10. This bar 9 and handle 10 admit the regulating of heat by user while taking bath. Bar 9 rests on a supporter 11. The galvanized iron drum 6 is connected with the heat-concentrating and distributing chamber 1 by a pipe 12.

The heat-concentrating and distributing chamber 1 consists of an outside chamber 13 which incloses a separate inside chamber 14, which latter is made out of asbestos or other fireproof material. This inside chamber is fastened to the outside chamber by wooden supports 20 and these two chambers are connected by a pipe 19, which serves to direct the heat into the interior of the inner chamber 14.

The upper outlets 15 in outer and inner chambers are connected by a pipe 21, and their purpose is to distribute the hot air over the human body which lies in front of it, while the lower outlets 16 on outer and inner chambers, also connected by a pipe 21 will effect a perfect circulation of the hot air. The "used-up" air will escape through the air space 17 between inner and outer chamber and the hole 18 on top of outside chamber 13.

Changes in the proportions, dimensions, shape and minor details may be resorted to and the materials varied at will in the construction of the several parts, without in the least departing from the principle of the invention.

Having thus described my invention I claim:

1. In a bath structure, the combination with a plurality of arched supports, a plurality of lazy-tong elements connecting between said supports whereby the distance between each element may be adjusted, an arcuate chamber to which one end of said lazy-tong elements is attached, a hot air supply source, and means for admitting air from said supply source to said chamber.

2. In a bath structure, the combination with an arcuate chamber, a casing spacedly contained therein, forming an inner chamber, a source of heated air, means for connecting said air source with said inner chamber, means for holding said chambers in spaced relation, a plurality of arcuate hoop supports registerable with said outer chamber, and flexible connections engaging said outer chamber with said arcuate hoop

elements, said chamber and elements being adapted to sustain a textile covering thereover.

3. In a bath structure, the combination with a chamber having an arcuate profile, a casing spaced concentrically therewithin, a plurality of arcuate hoop elements registerable with said outer chamber, connections between said chamber and said elements whereby the latter may be uniformly spaced therefrom, a covering adapted to be disposed over said chamber and arcuate elements, means for admitting air to the interior of said casing, and means for ventilating said chamber.

Signed at Rosebank, in the county of Richmond and State of New York, this 3d day of April, 1916.

WILLIAM F. ERATH.