J. E. HANGER, SR.

BED.

APPLICATION FILED APR. 13, 1916.

1,242,545.

Patented Oct. 9, 1917.

3 SHEETS—SHEET 1.

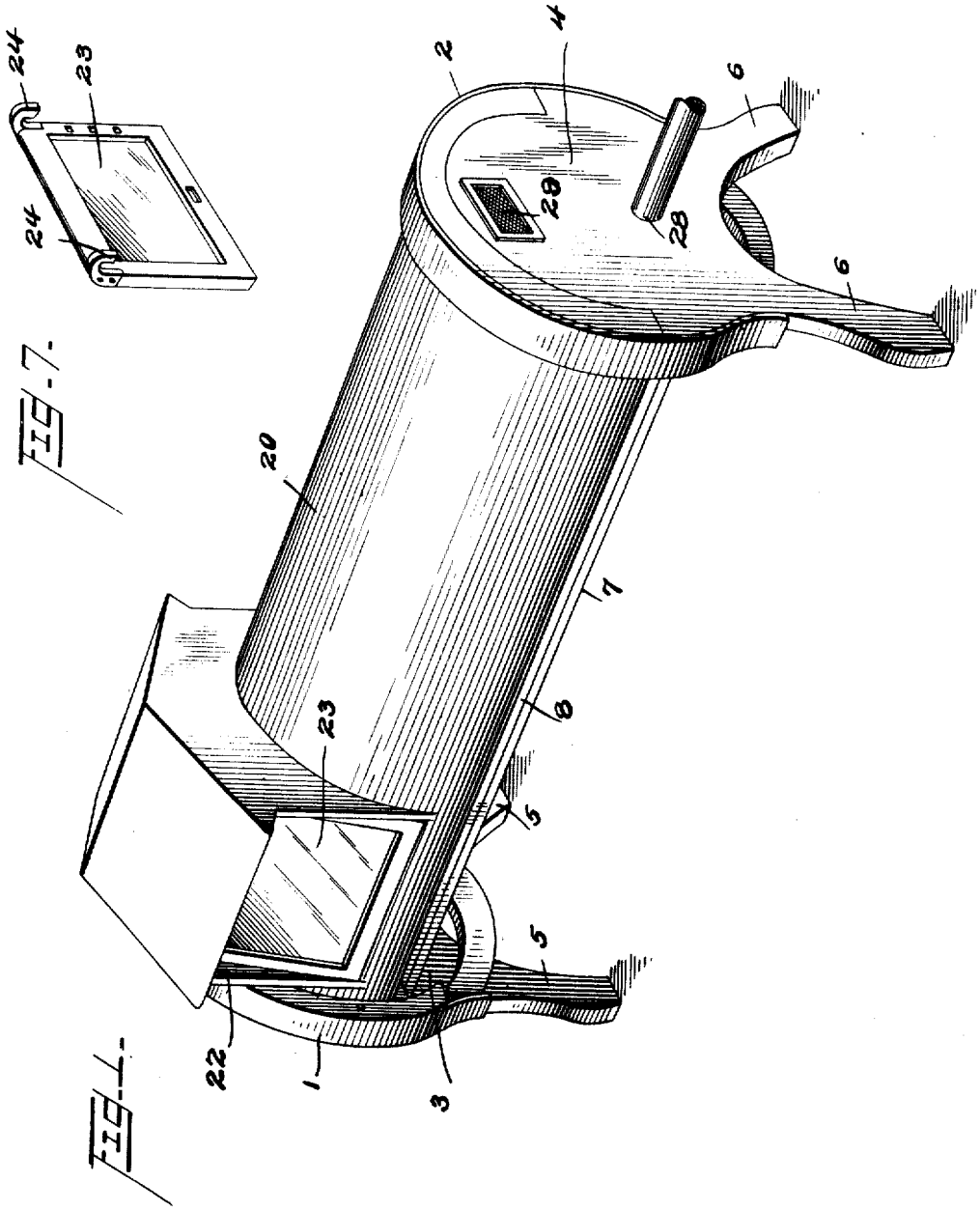


FIG. 7.

FIG. 1.

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3 SHEETS—SHEET 2.

FIG. 2.

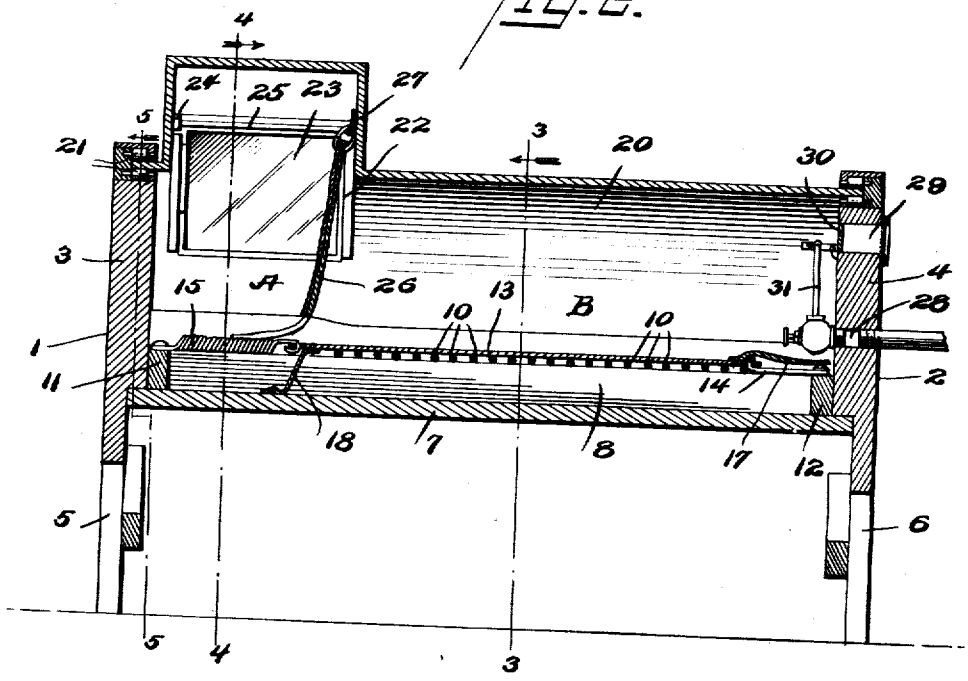
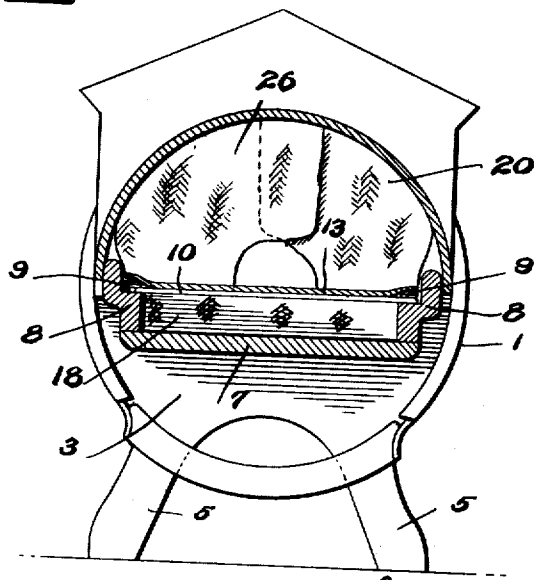


FIG. 3.



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3 SHEETS—SHEET 3.

FIG. 4.

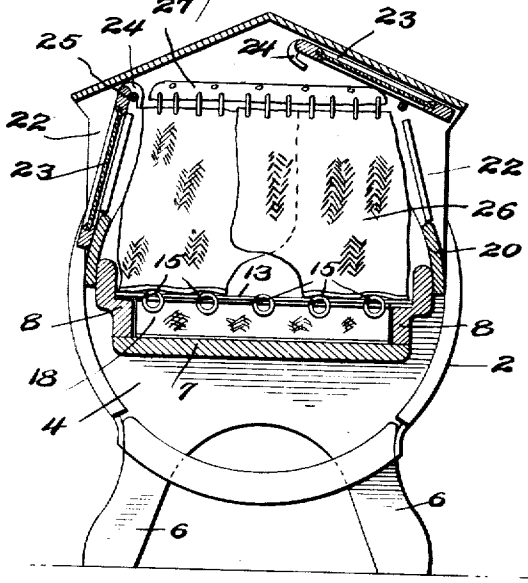


FIG. 5.

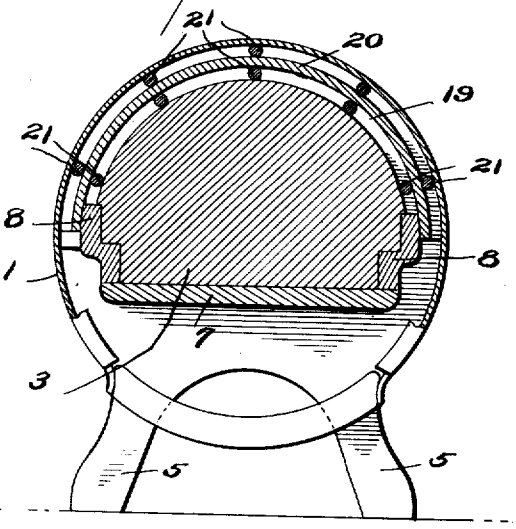
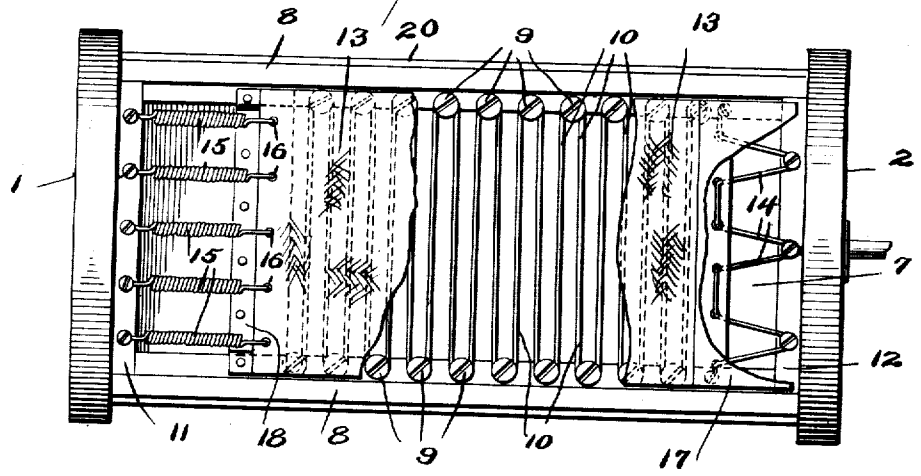


FIG. 6.



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UNITED STATES PATENT OFFICE.

JAMES E. HANGER, SR., OF WASHINGTON, DISTRICT OF COLUMBIA.

BED.

1,242,545. Specification of Letters Patent. Patented Oct. 9, 1917.

Application filed April 13, 1916. Serial No. 90,894.

To all whom it may concern:

Be it known that I, JAMES E. HANGER, Sr., a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Beds, of which the following is a specification.

My invention relates to beds and pertains more particularly to beds for invalids, having a housing to shelter the person lying thereon to permit its use out of doors.

The object of my invention is to produce a bed having a removable housing to permit access thereto and provided with window openings adjacent to its head to allow an ample supply of fresh air to the person lying thereon. Another object of my invention is to produce a bed of the character described divided into two compartments to protect the body of the occupant while his head is exposed to allow him to breathe the open air. A further object thereof is to provide a bed frame having a support for the body consisting of a continuous strand of cord laced cross-wise of the frame around suitable wheels whereby the contour of the body may be supported at all points, together with a sheet of fabric stretched above said strand by a plurality of longitudinally disposed springs. Another object of my invention is to produce a bed of the character described having a substantially semi-cylindrical housing slidably carried in the head and foot structures thereof, having windows adjacent to the head of the bed adapted to be conveniently opened and closed to regulate the supply of air to the occupant. A still further object thereof is to produce a bed of said character divided into two compartments having means for heating and regulating the temperature of one compartment and means for admitting air to the other compartment; and a still further object thereof is to produce a more simple, convenient and efficient bed of the character described than has heretofore been attained.

To these ends my invention includes the combination and arrangement of component parts to be hereinafter described and more particularly pointed out in the claims.

In the accompanying drawings, in which like reference characters indicate similar parts:

Figure 1 is a perspective view of my invention.

Fig. 2 is a longitudinal sectional view of the same.

Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 1.

Fig. 4 is a similar view taken on the line 4—4 of Fig. 1.

Fig. 5 is a reverse sectional view taken on the line 5—5 of Fig. 1.

Fig. 6 is a plan view of my bed with the housing removed; and

Fig. 7 is a detail view of the window structure.

Referring now to the drawings, 1 indicates the head of my bed and 2 designates the foot thereof, each of which comprises a substantially circular frame 3 and 4 supported on the legs 5 and 6 respectively. Supported between said head and foot I provide the platform 7 having longitudinal side frames 8, on the top of each of which, in staggered relation, are carried a plurality of pulleys 9 around which is laced the continuous strand or cord 10 adapted to be drawn taut and to sustain the weight of the occupant of the bed.

Said bed structure is also provided with the cross bars 11 and 12 at the opposite ends thereof to which is attached the sheet 13 above the laced strand 10. As shown in the drawings, said sheet does not extend entirely to the head or foot of the structure, but is laced to the cross bar 12 by the strand 14 and is attached to the cross bar 11 at the head of the bed by the coil springs 15 attached to eyelets 16 adjacent to the end of the sheet. An extension 17 is attached to said sheet adjacent to its lower end to cover the laced strand 14, while at its upper end the sheet is provided with a depending apron 18 on its lower side adapted to rest upon the platform 7 for the purpose of dividing the space beneath the supporting structure thus described into two compartments, A and B.

The head 3 and foot 4 of my bed structure are each provided with an annular track 19 in which the semi-cylindrical housing 20

is slidably carried and for the purpose of facilitating the movement of the housing, a plurality of roller bearings 21 are provided therein. Said housing is normally carried in upright vertical position when the bed is occupied and may be conveniently raised or lowered from either side on said tracks to permit access to the bed.

Adjacent to the head thereof I provide dormer windows 22 in which are slidably carried the sash frames 23 adapted to be raised or lowered in the position shown in Figs. 4 and 7, and when in lowered position to be suspended by the hook 24 on the rod 25.

As shown in the drawings, a flexible partition 26 preferably made of impervious fabric is attached to the housing intermediate of its ends and is adapted to depend to the platform for the purpose of dividing the upper portion into the compartments A and B whereby the compartment B, in which the body of the occupant is contained, is protected from the air admitted through the windows hereinbefore described. Said flexible partition is preferably laced to the strip 27 to permit its removal and replacement.

For the purpose of providing artificial heat in compartment B, I provide an opening 28 in the lower part of the foot of the bed which may be connected with any suitable heat supply and for the purpose of maintaining the temperature at a preferred degree I provide an outlet 29 above said inlet, each of which is provided with shutters 30 connected with the thermostat 31, which will automatically adjust said openings, as required.

It will thus be appreciated that the compartment B, in which the body of the occupant is located, may be maintained at a predetermined temperature and that the heat will be retained therein by the apron 18 and partition 26, hereinbefore described, without interfering with the exposure of the head of the occupant to the fresh air that will be admitted through the dormer windows, as before mentioned.

Having thus described my invention, what I claim as new and desire to be secured by Letters Patent, is:

1. A bed comprising a platform, a housing carried thereon having window openings in one end thereof, and a transverse partition intermediate of the ends of the housing dividing same into a windowed compartment for the head of the occupant and a closed compartment for the body of the occupant.

2. A bed comprising a platform, a housing carried thereon having window openings in one end thereof, and a transverse flexible partition intermediate of the ends of the housing dividing same into a windowed compartment for the head of the occupant and a closed compartment for the body of the occupant.

3. In a bed, the combination with a head and foot structure forming impervious walls, of a platform carried thereon and a housing movably carried on said head and foot structures having windows in one end, and means for opening and closing said windows.

4. In a bed, the combination with head and foot structures formed of impervious material having annular tracks in their opposite faces, of a platform mounted thereon, a semi-cylindrical housing carried in said tracks for inclosing the platform, dormer windows in one end of said housing, sash carried therein, and means for holding said sash in open and closed positions.

5. In a bed, the combination with head and foot structures, of a platform mounted thereon, annular tracks in the inner faces of said structures, a semi-cylindrical housing carried in said track, dormer windows in one end of said housing, means for holding said windows in open or closed position, and a flexible partition for dividing said housing into two compartments.

6. In a bed, the combination with head and foot structures of impervious material, of a platform mounted thereon, a movable housing carried on said head and foot structures above the platform, windows in said housing at one end, and an opening in the foot structure for admitting artificial heat to the housing.

7. In a bed, the combination with head and foot structures of impervious material, of a platform mounted thereon, a movable housing carried on said head and foot structures above the platform, windows in said housing at one end, means for dividing said housing into two compartments, an opening in the main compartment for admitting artificial heat, another opening to provide ventilation, and means for regulating the size of said openings to maintain the temperature in the compartment at a predetermined degree.

8. In a bed, the combination with head and foot structures, of a platform mounted thereon, a housing carried thereon above said platform, a partition for dividing said housing into two compartments, windows in the housing communicating with one of said compartments, and means for artificially heating the other compartment.

In testimony whereof I hereby affix my signature.

JAMES E. HANGER, Sr.