No. 815,127. PATENTED MAR. 13, 1906.

C. SOULAS.

SWING BED FOR USE ON BOARD SHIP.

APPLICATION FILED FEB. 29, 1904.

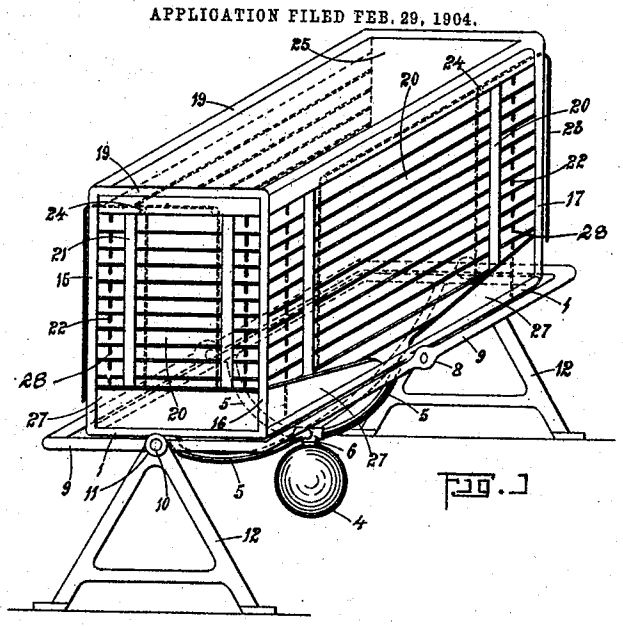


Fig. 1

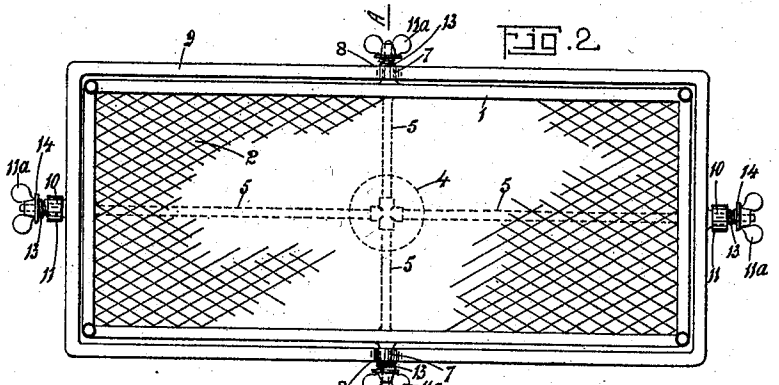


Fig. 2

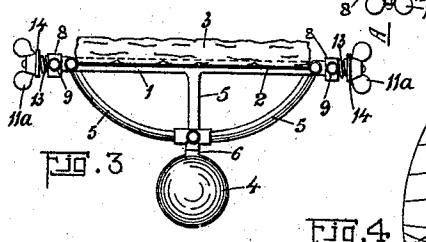


Fig. 3

Fig. 4

Witnesses:-
E. L. Balderin
J. W. Jones.

Inventor-
Christophe Soulas
By Henri A. Taylor
Attorney

UNITED STATES PATENT OFFICE.

CHRISTOPHE SOULAS, OF JERUSALEM, WANGANUI, NEW ZEALAND.

SWING-BED FOR USE ON BOARD SHIP.

No. 815,127. Specification of Letters Patent. Patented March 13, 1906.

Application filed February 29, 1904. Serial No. 196,845.

To all whom it may concern:

Be it known that I, CHRISTOPHE SOULAS, of Jerusalem, Wanganui, in the Provincial District of Wellington, in the Colony of New Zealand, have invented a new and useful Swing-Bed for Use on Board Ship, of which the following is a specification.

The object of this invention is the prevention of sea-sickness, and according hereto a bed or the like for use upon board ship is carried upon a frame supported by trunnions in an outer frame, which in turn is mounted upon trunnions in a fixed support. A balance-weight is fixed beneath the inner frame and near to what is the center of gravity of the bed when a person is upon it, the effect being to maintain the bed in a horizontal position and to minimize the effect of the rolling and pitching of the vessel upon the occupant of the bed.

I will now more particularly describe my invention by the aid of the accompanying drawings, wherein—

Figure 1 is a front perspective elevation; Fig. 2, a plan; and Fig. 3, a vertical section on A A, Fig. 2. Fig. 4 is a side perspective elevation of a hood-screen.

The rectangular frame 1, which is preferably made of metal tubes, carries the webbing 2, which is strained over the frame and supports a mattress 3. A balance-weight 4 is secured to the frame 1 by the stay-tubes 5, which connect the rod 6, upon which the balance-weight is fixed, with the ends and sides of the frame. The frame has trunnions comprising spindles 7, one upon each side, which are journaled in bearings 8, carried by a frame 9. Frame 9, which surrounds frame 1, is also preferably made of metal tubes and has trunnions comprising spindles 10, one upon each side, projecting at right angles to and in the same plane as the spindles 7 upon the inner frame. The spindles 10 are journaled in bearings 11, carried upon the fixed supports 12. The ends of the spindles 7 and 10 are screw-threaded and each has a wing-nut 11^a, which may be screwed up against a spring 13, threaded upon the spindle and bearing against a washer 14, in contact with the face of the bearing through which the spindle passes, the turning of the spindles in their bearings being thereby adjusted, so that the bed may not oscillate too freely.

To prevent movement of articles in the ship being observed by an occupant of the bed, I provide a screen or screens, which are carried by the inner frame referred to. These screens are constructed of slats after the manner of a Venetian blind, and they may be drawn up as desired. Referring to the drawings, the vertical pillars 15, 16, 17, and 18 project upwardly, one from each corner of the frame 1, and are connected at their upper ends by tubes, forming a rectangular frame 19. A plurality of slats 20, carried in ordinary Venetian-blind tapes 21, are supported from the frame 19, so as to inclose three sides of the bed. Wires 22, strained between the frame 1 and the frame 19, are threaded through holes 28 in the slats 20 to hold them steady. The slats are drawn up by cords 23, which pass over pulleys 24, and are threaded through the slats and connected to the lowermost thereof. A covering 25 may be placed over the top of the frame 19 to make a ceiling, if desired.

In a modification, which is illustrated in Fig. 4, the screen is made in the form of a semicircular adjustable hood, the hood being pivotally attached to the frame upon each side of the bed and formed of a plurality of independent slats 26, the one overlapping the other. The slats are used to provide a free passage of air for ventilating purposes.

To prevent the possibility of the hand or foot of a sleeper being caught between frames 1 and 9, I box in the frame 1 by the wooden sides 27.

If desired, a second bed may be arranged beneath the first, the upper bed being supported, as described, in frames 1 within the other, and the balance-weight being connected to the lower bed.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

The combination in a swing-bed, of an inner frame, means for supporting a mattress thereon, and trunnions upon the sides of the frame, with an outer frame, bearings in the outer frame to receive the trunnions of the inner frame, friction-springs upon the trunnions, wing-nuts upon threaded extremities of the trunnions for compressing the friction-springs, trunnions upon the ends of the outer frame, fixed standards with bearings for receiving the said trunnions, friction-springs

upon the said trunnions, wing-nuts upon threaded extremities of the trunnions for compressing the friction-springs, stay-tubes connected to the inner frame and converging to the center thereof, a balance-weight depending from the stay-tubes, pillars extending vertically from the inner frame, a rectangular frame carried thereby, screens composed of slats supported by said rectangular frame and means for raising and lowering said screens, as set forth.

CHRISTOPHE SOULAS.

Witnesses:
H. F. TILLEY,
R. G. MONEY.