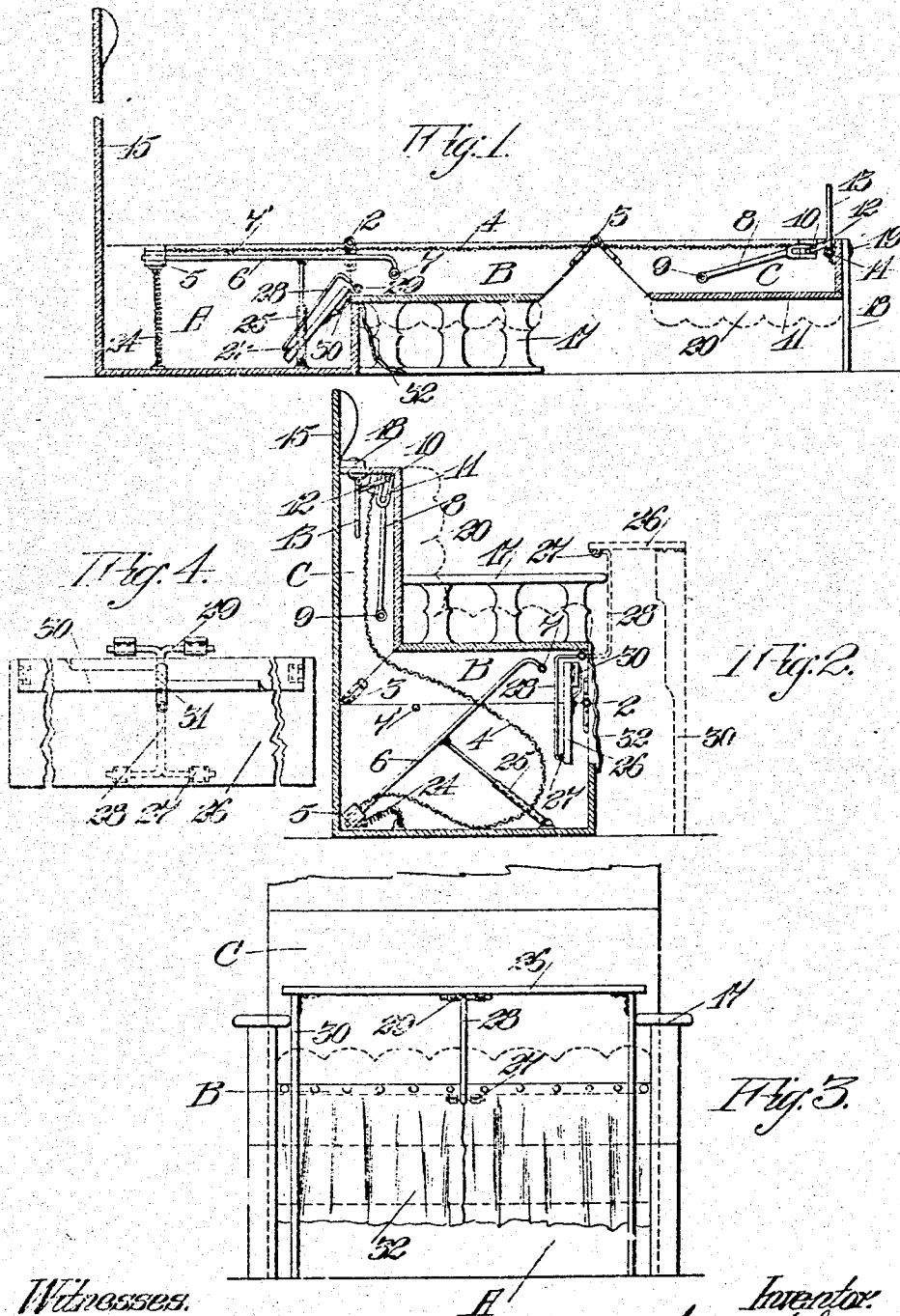


G. A. SWANSON.
FOLDING BED, TABLE, AND SEAT.
APPLICATION FILED APR. 3, 1908.

972,484.

Patented Oct. 11, 1910.



Witnesses.
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UNITED STATES PATENT OFFICE.

GEORGE A. SWANSON, OF OAKLAND, CALIFORNIA.

FOLDING BED, TABLE, AND SEAT.

972,484.

Specification of Letters Patent.

Patented Oct. 11, 1910.

Application filed April 3, 1908. Serial No. 424,881.

To all whom it may concern:

Be it known that I, GEORGE A. SWANSON, citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Folding Beds, Tables, and Seats, of which the following is a specification.

My invention pertains to a combination folding-bed, table and seat.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a longitudinal section of the device, opened out for use as a bed; Fig. 2 is a vertical section of the device closed up into the position of a seat; Fig. 3 is a front elevation of the device as the same appears in Fig. 2, with a portion of the back broken away; and Fig. 4 is a front or plan of the table portion folded up.

The device is made in three main portions A—B—C: the part A being a stationary box-like structure, or base, the part B forming a seat portion, and the part C constituting a back to the seat when the parts are closed up for use, as in Fig. 2. The seat portion B is hinged at 2 to the front upper edge of the box or base A, and the part C is hinged to the part B at 3.

4 is a wire mattress suitably secured at the head end to a bar 5 which is carried by the hinged rods 6. The latter are pivotally supported on the seat portion B at 7. The parts 5 and 6 form a hinged adjustable frame supporting this end of the mattress: the upward movement of the frame being limited by the stops 7'. The other end of the mattress is attached to a hinged frame 8 pivoted at 9 within the sides of the parts 6. The upward movement of the frame 8 is limited, when the mattress is stretched, by means of a rod 10 operating in the slot 11 at each side of the frame 8, and this rod is carried by arms 12, which are rigidly connected at an angle to the hinged foot-board 13; the foot-board 13 being pivoted at 14 within the part C, and adapted to fold inwardly within said part when the device is in the position shown in Fig. 2, for use as a seat.

15 is a rigid headboard fixed to the box A, and when the parts are closed up, it will stand in the position shown in Fig. 2.

The adjacent ends of the parts B and C are beveled at forty-five degree angles, so that they will close up at right angles to each other when used as a seat. When opened out, as in Fig. 1, the parts are kept from collapsing by having the plane of the wire mattress always below the pivots 2—3. The part B has the side arms 17 which support that portion of the device when the latter is opened out as a bed, in Fig. 1, while the part C has the folding legs 18 which are pivoted at 19 to support the foot portion of the bed. The seat and back portions may be suitably upholstered, as indicated at 20.

In order to facilitate the folding up of the bed, one or more stiff springs 24 may be attached to the front end of the hinged frame 5, in such fashion that when the bed is opened out, as in Fig. 1, the springs 24 will be put on tension; and on the folding up of the bed into the seat form of Fig. 2, the springs 24 will exert a downward pull, which tends to draw in and down on the mattress.

The rods 6 have a limited fulcruming movement on the telescoping legs 25, which are hinged at their lower ends inside of the box A, and serve, when the device is opened out for a bed, to support the front end of the mattress.

In practice, when the device is opened out, the frame 5—6 will lift up, as tension is brought on it by the spring mattress, until it is brought into substantially horizontal position, and supported against the under side of the stop 7'. The telescoping character of the braces 25 allows for the proper turning movement of the frame 5—6 as the seat B is turned about its pivot 2. When opened out as a bed, the telescoping portions of the braces 25 will support rigidly the weight of the front end of the mattress, so that there will be no danger of the latter sagging or collapsing accidentally. When it is desired to close up the apparatus, it is only necessary to lift the rear section C so as to bring the mattress line above the pivots 2—3; whereupon the tension of the springs 24 will assist in folding up the bed, by exerting a strong downward tendency on the frame 5—6, which latter will fulcrum on the telescoping braces 25.

The table portion of the device comprises a leaf 26 hinged to one end, as shown at 27, of a bracket 28. This bracket 28 is hinged at the other end centrally of and to the under side of the seat portion B, as shown at

The bracket 28 is bent in the manner indicated in Fig. 2, so that it can be folded down into an open space in the front of the sections B—A, or extended, as indicated in dotted lines, into operative position as a table. In Fig. 3, the extended position of the table is shown with the table suitably supported on the legs 30. In Fig. 4, the table and its legs 30 are shown as folded up, and the legs held in place by suitable means, as the button 31. The opening into which the table is folded may be closed by a suitable flap or curtain 32.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. An improved folding bed and seat made in three sections and comprising a stationary box-like base, a seat portion and a portion constituting a back to the seat when the parts are closed up for use, said seat portion being hinged at its front edge to the front upper edge of the base, and the back portion being hinged to the seat portion near the back edge of the latter when the parts are closed for use; rods hinged at one end to the seat portion and extending diagonally into the base portion when the parts are closed, a bar extending between and carried by said rods, a mattress having one end secured to the bar, said bar and rods forming a hinged adjustable horizontal frame for supporting one end of the mattress when the parts are unfolded for use as a bed, and a hinged frame pivoted at one end within the sides of the seat portion and connected to the mattress and adapted to hold the same under tension when the mattress is in use.

2. An improved folding bed and seat made in three sections and comprising a stationary box-like base, a seat portion and a portion constituting a back to the seat when the parts are closed up for use, said seat portion being hinged at its front edge to the front upper edge of the base, and the back portion being hinged to the seat portion near the back edge of the latter when the parts are closed for use; rods hinged at one end to the seat portion and extending diagonally into the base portion when the

parts are closed, a bar extending between and carried by said rods, a mattress having one end secured to the bar, said bar and rods forming a hinged adjustable horizontal frame for supporting one end of the mattress when the parts are unfolded for use as a bed, a hinged frame pivoted at one end within the sides of the seat portion and connected to the mattress and adapted to hold the same under tension when the mattress is in use, and means for limiting the upward movement of the hinged frame, said means including a rod operating in a slot at each side of the seat frame, said seat frame having a hinged foot-board and arms rigidly connected at the angle to the foot-board and carrying said rod whereby the foot-board folds inwardly when the main parts of the device are folded for use as a seat.

3. An improved folding bed and seat made in three sections, and comprising a stationary box-like base, a seat portion and a portion constituting a back to the seat when the parts are closed up for use, the said seat portion being hinged at its front edge to the front upper edge of the base, and the back portion being hinged to the seat portion near the back edge of the latter when the parts are closed for use; rods hinged at one end to the seat portion and extending diagonally into the base portion when the parts are closed, a bar extending between and carried by said rods, telescoping rods hinged at their lower ends inside of the base and having their upper ends connected to the central portion of said rods, a mattress being secured at one end to said bar and having its other end secured to the upper portion of the seat portion when the parts are closed up for use, said rods forming a horizontal support for the head end of the mattress when the mattress is unfolded for use.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GEORGE A. SWANSON.

Witnesses:

CHARLES A. BUEFELD,
Geo. H. STRONG.