

(No Model.)

2 Sheets—Sheet 1.

R. VOCKE & E. LUNGSTRAS.
FOLDING BED AND TABLE.

No. 538,470.

Patented Apr. 30, 1895.

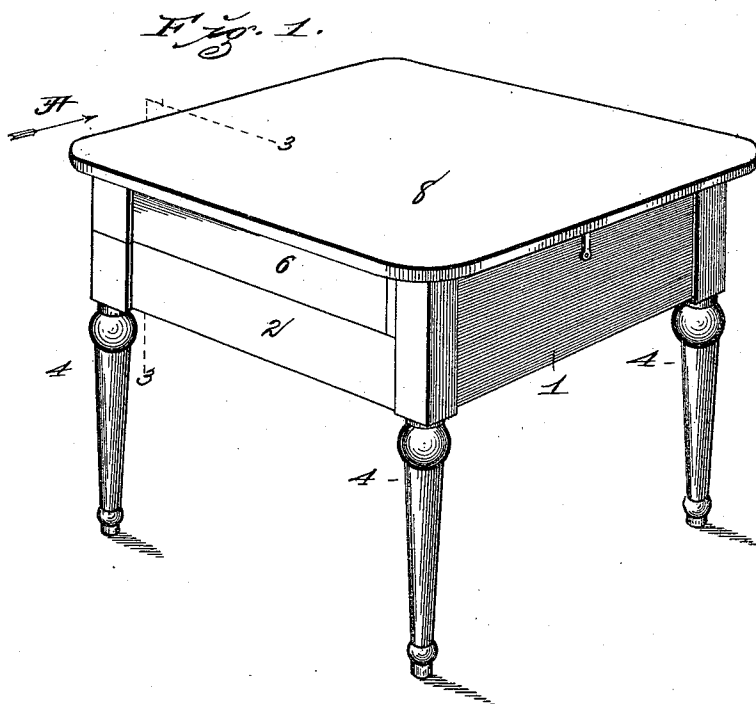
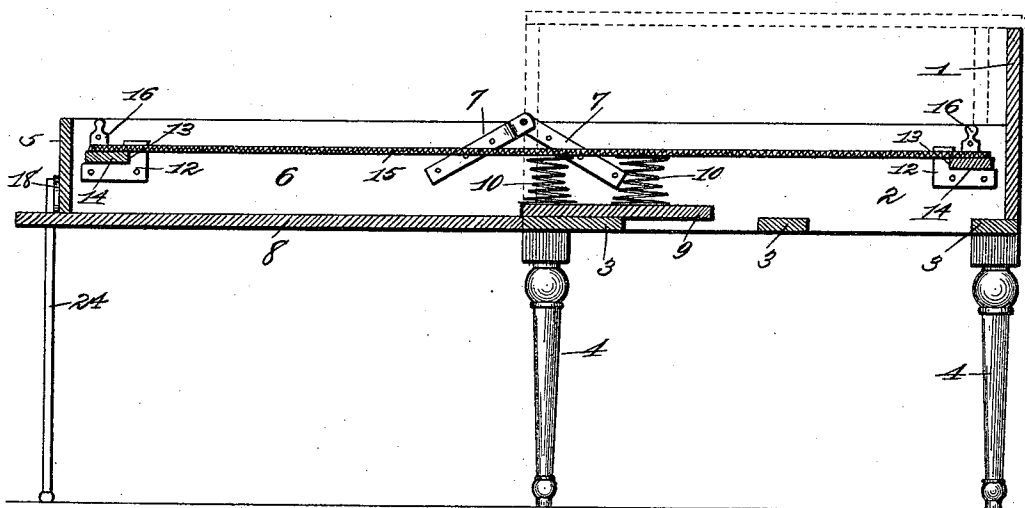


Fig. 2.



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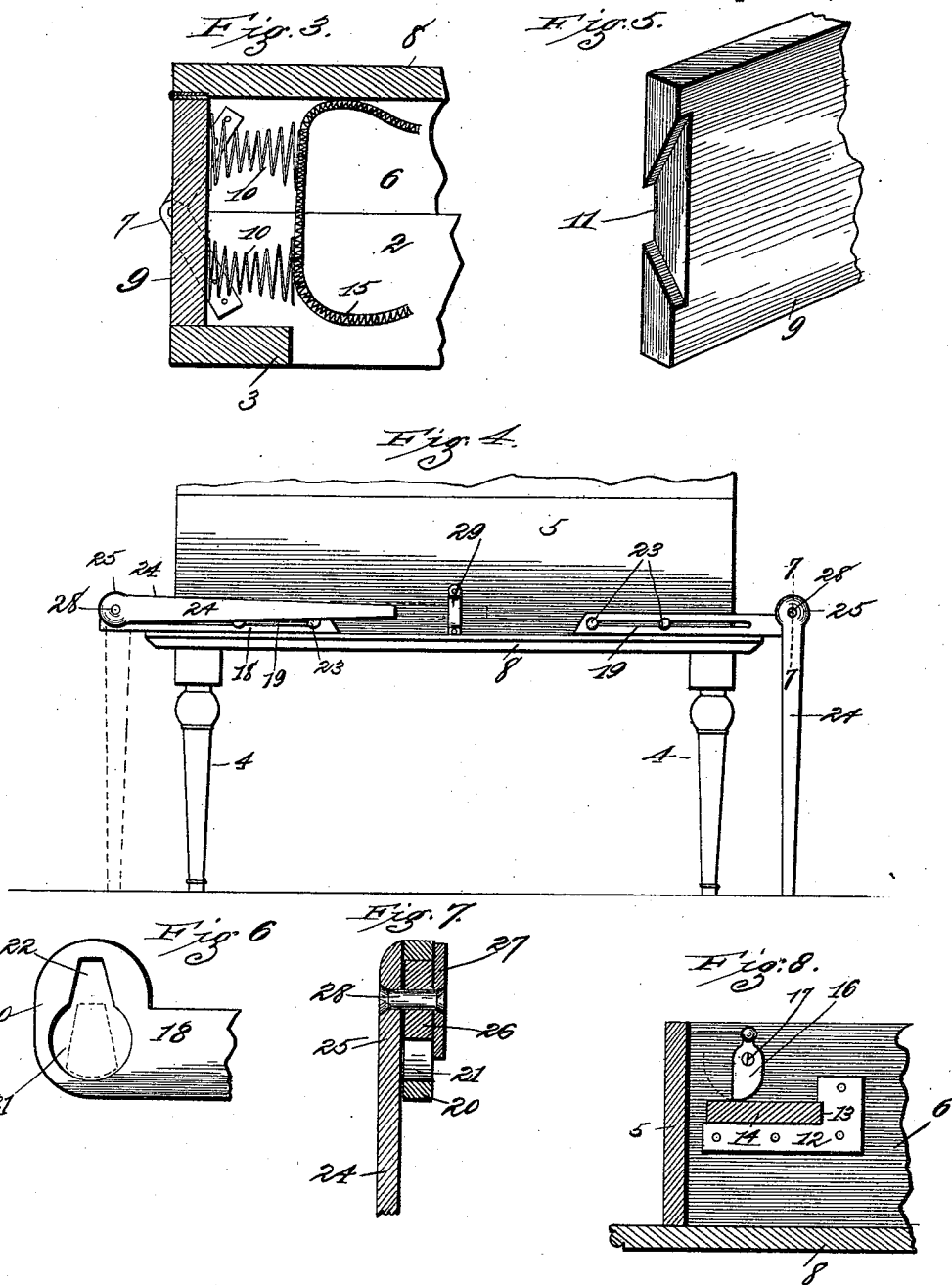
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UNITED STATES PATENT OFFICE.

RUDOLPH VOCKE AND EWALD LUNGSTRAS, OF ST. LOUIS, MISSOURI.

FOLDING BED AND TABLE.

SPECIFICATION forming part of Letters Patent No. 538,470, dated April 30, 1895.

Application filed February 25, 1895. Serial No. 539,648. (No model.)

To all whom it may concern:

Be it known that we, RUDOLPH VOCKE and EWALD LUNGSTRAS, of the city of St. Louis, Missouri, have invented certain new and useful Improvements in a Combined Folding Bed and Table, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

Our invention relates to a combined folding bed and table, and consists in the novel construction, combination and arrangement of parts, hereinafter described and claimed.

In the drawings, Figure 1 is a view in perspective of our device folded and in the form of a table. Fig. 2 is a longitudinal sectional view of our device open and in the form of a bed, the dotted lines showing the position the folding portion of the device assumes when said device is in the form of a table. Fig. 3 is a detail cross-sectional view taken approximately on the indicated line 3 3 of Fig. 1 and looking in the direction as indicated by the arrow A. Fig. 4 is an end elevation of the folding or movable portion of our device and showing the folded or pivoted legs for sustaining said folding portion. Fig. 5 is a view in perspective of one end of the foot-board we employ in carrying out our invention. Fig. 6 is an elevation of the end of one of the horizontally-moving bars to which the folding legs are pivoted. Fig. 7 is an enlarged vertical sectional view taken approximately on the indicated line 7 7 of Fig. 4. Fig. 8 is a detail sectional view, showing the means we employ to rigidly position the ends of the spring-frame in proper position.

Referring by numerals to the accompanying drawings, 1 indicates the head-board of the stationary portion of our combined folding bed and table; 2, the side-rails thereof framed to the head-board in the usual manner, and 3 a series of cross-bars or slats connecting the side-rails and forming the stationary frame-work. Said frame-work is mounted upon suitable supporting-legs 4 that may be provided with casters, if desired.

The movable or folding portion of the bed comprises the foot-board 5, side-rails 6 fixed to said foot-board and lying in alignment with the side-rails 2, said side-rails 6 and 2 being hinged together at their meeting ends by

means of hinge-bars 7 fixed to the inner faces of said side-rails 6 and 2. The board 8 that performs the function of a table top is located and fixed to the under sides of the foot-board 5 and side-rails 6, said table-top extending a slight distance beyond the end of said foot-board 5.

Hinged to the end of the table-top 8 that lies adjacent the forward one of the cross-pieces or slats 3 is a transversely extending bar or slat 9, to the upper face of which is rigidly fixed a series of ordinary bed-springs 10. The ends of this hinged slat 9 are constructed with V-shaped notches 11, through which the ends of the hinged-bars 7 pass when said slat 9 is in a vertical position and the device is folded and in the form of a table.

Located on the inner faces of the side-rails 2 and 6 adjacent the head and foot-boards 1 and 5 are blocks 12 in which are formed slight rectangular notches or recesses 13.

Extending from the rails 2 and 6 on one side of the bed to the rails on the other side and bearing upon the blocks 12 are slats or bars 14, to the upper sides of which are fixed the ends of an ordinary spring-mattress, such as 15. The inner faces of these slats or bars 14 engage in the recesses or notches 13, and said slats 14 are held in proper position by means of buttons 16 that are pivoted by means of screws 17, or in any suitable manner, to the faces of the side-rails immediately above the cross-slats or bars 14. The lower forward corners of these buttons 16 are rounded, in order that said buttons may perform the function of eccentrics when they are manipulated so as to engage and hold the rectangular slats or bars 14 in proper position. The spring-mattress 15 is secured to the upper ends of the coil-springs 10 in any suitable manner.

18 indicates metallic bars that are provided with longitudinal slots 19, and the outer ends of said bars 18 are constructed with heads or widened portions 20 in which is located a circular aperture 21, from which extends upwardly an angular notch or aperture 22. These bars 18 are held for longitudinal movement to the lower portion of the outside face of the foot-board 5 by means of headed bolts or screws 23 passing through the slots 19.

24 indicates metallic legs provided with integral heads 25.

26 indicates metallic blocks of such a size as that they will readily turn or rotate in the circular aperture 21, and said blocks 26 are held to the inside faces of the heads 25 of the legs 24 by means of washers 27 and rivets or bolts 28 passing through said washers, blocks 26 and heads 25.

29 indicates a metallic strap that is located upon the outer face of the foot-board 5 and in the longitudinal center thereof.

The operation is as follows: Assuming that the device has been in use as a table and it is desired to open or transform the same to be used as a bed, the operator manually lifts the end of the table top adjacent the foot-board 5 and unfolds or swings the entire movable portion of the device over until said movable portion lies in the same horizontal plane with the immovable portion. In so unfolding or opening the device, the transverse board or slat 9 moves along the top surface of the end one of the transverse slats 3 and assumes a horizontal position. The coil-springs 10 fastened to the upper side of the transverse board 9 sustain the center of the spring-mattress 15 and does not allow the same to sag. The legs 24 which have heretofore been folded together with the slotted bars 18 toward one another and held by the strap 29 are now moved away from one another and to their outward limit of movement which brings the heads 20 of the bars 18 outside the edges of the table-top 8, and brings the ends of the legs 24 out of engagement with the strap 29. The blocks 26 securely fixed to the heads 25 of the legs 24 now occupy positions in the circular apertures 21 in the ends of the bars 18, and said legs 24 are free to be moved upwardly and outwardly until they assume vertical positions. The blocks 26 now lie in vertical planes and approximately in the position as shown by dotted lines in Fig. 6, and when said legs 24 have been brought into a vertical position, the bars 18 carried by the end of the movable portion of the device will move downwardly a slight distance with said lower end, and the notches or cutaway portions 22 will engage the blocks 26 on the heads 25 of the legs 24. Thus said legs 24 are securely held in a vertical position and perform the function of legs as long as the device is in use as a bed.

To transform the device from a bed to a table, the operator manually lifts the lower end of the movable portion of the device, and, in so doing, the angular notches or cutaway portions 22 in the heads 20 of the bars 18 are moved away from the blocks 26 carried by the heads 25 of the legs 24, and said blocks 26 will necessarily be dropped into the circular apertures 21. The legs are now free to be moved over or folded into horizontal planes and lie parallel with the slotted bars 18. Said bars 18 and legs 24 are now moved toward each other until the ends of said legs 24 pass through the strap 29, and until the heads 20 of the bars 18 and the heads 25 of said legs 24 occupy positions inside the edges of the foot-board 5.

This being done, the operator manually lifts the movable portion of the device and folds the same over and onto the immovable portion, and in so doing the end of the table-top 8 engages directly upon the upper end of the head-board 1, and the folded legs 24 and slotted bars 18 lie just inside said head-board 1 and against the foot-board 5. With this folding movement the transversely positioned slat 9 will be swung upwardly and into a vertical plane, and to the position as shown in Fig. 3, thus closing the entire side of the device opposite to the head-board 1. As the ends of said transverse boards are cut away to allow for the ends of the hinged-bars 7 and the spring-mattress 15 is flexible, it will be plainly seen how this movement of the transverse slat 9 very easily takes place.

If, at any time, it is desired to remove the spring-mattress 15 in order to clean the same or the interior of the device, the buttons 16 are moved into approximately horizontal planes which will allow the transverse bars 14, to which the spring-mattress 15 is attached, to be removed from the blocks 12 and the notches or cutaway portions 13 therein.

When the device is folded and in use as a table, the same presents a very neat and compact appearance, and the same is entirely closed on all sides and the spring-mattress or bedding that is on the interior of the device is not exposed to view.

A combined folding bed and table of our improved construction can be very easily and quickly manipulated, or transformed from a bed to a table and vice versa, is compact, and possesses superior advantages in point of simplicity, durability and general efficiency.

What we claim is—

1. In a combined folding bed and table, a stationary or immovable frame work, stationary legs for said frame-work, a folding or movable frame-work hinged to the stationary portion, a transverse board hinged to the end of the movable or folding portion to close the end of the device when the same is in use as a table, blocks located upon the inner faces of the side-rails of both frame-works, buttons pivoted immediately above said blocks, transverse bars adapted to be located upon said blocks and engaged by said buttons, a spring-mattress secured to said transverse bars, slotted bars mounted for longitudinal movement on the foot-board of the movable frame-work, and legs pivoted to the ends of said slotted bars.

2. In a combined folding bed and table, a stationary frame-work, suitable supporting legs for said frame-work, a movable or folding frame-work hinged to said stationary frame-work, bars provided with longitudinal slots located upon the foot-board of the folding portion, headed bolts or screws passing through the slots in said bars, heads formed integral with said bars and provided with circular apertures from which extend upwardly angular notches or recesses, legs having heads

that are located adjacent the heads of the slotted bars, lugs passing through the circular apertures in the heads of the slotted-bars, washers located upon the rear sides of the blocks and heads of the slotted-bars, and bolts or rivets for rigidly holding the washers and blocks to the heads of the legs.

3. In a combined folding bed and table, a stationary frame-work, suitable supporting legs for said frame-work, a folding or movable frame-work hinged to said stationary frame-work, a pair of slotted bars held to and moving longitudinally along the outer face of the foot-board of the movable or folding portion

of the device, a strap located upon said foot-board and in direct alignment with the ends of the slotted-bars, and legs pivoted to the outer ends of the slotted-bars, the same adapted to be folded over and moved longitudinally with the slotted-bars.

In testimony whereof we affix our signatures in presence of two witnesses.

RUDOLPH VOCKE.
EWALD LUNGSTRAS.

Witnesses:

M. G. IRION,
JOHN C. HIGDON.