

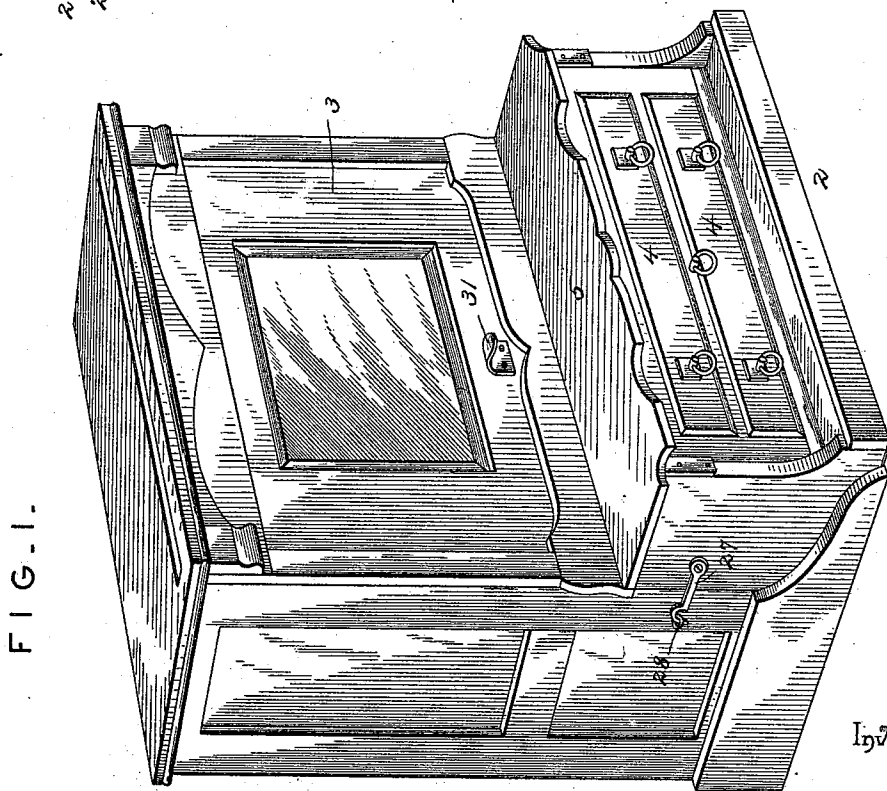
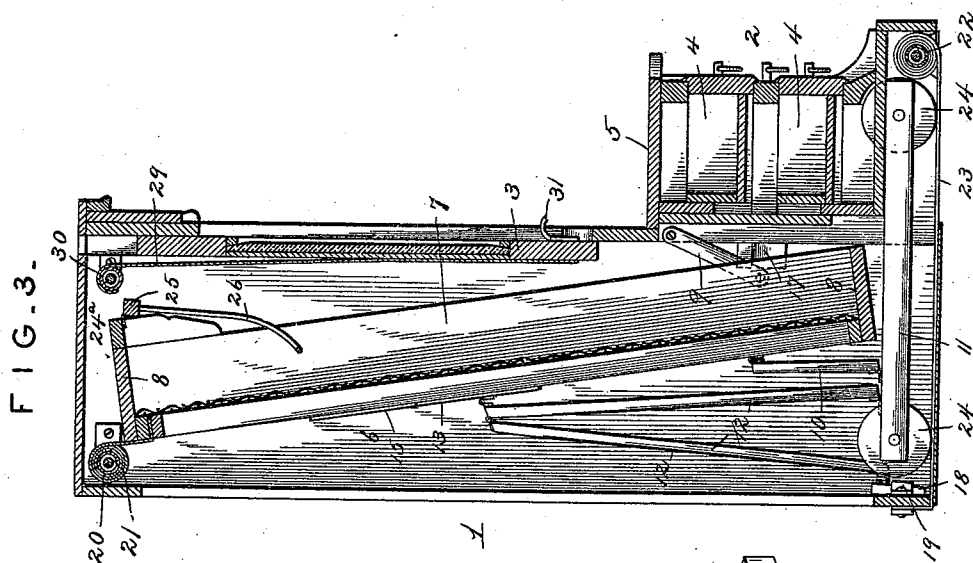
(No Model.)

3 Sheets—Sheet 1.

G. W. SANOR.
FOLDING BED.

No. 553,968.

Patented Feb. 4, 1896.



Inventor

Witnesses

Harry L. Amer.
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By *his* Attorneys,

George W. Sanor.

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(No Model.)

3 Sheets—Sheet 2.

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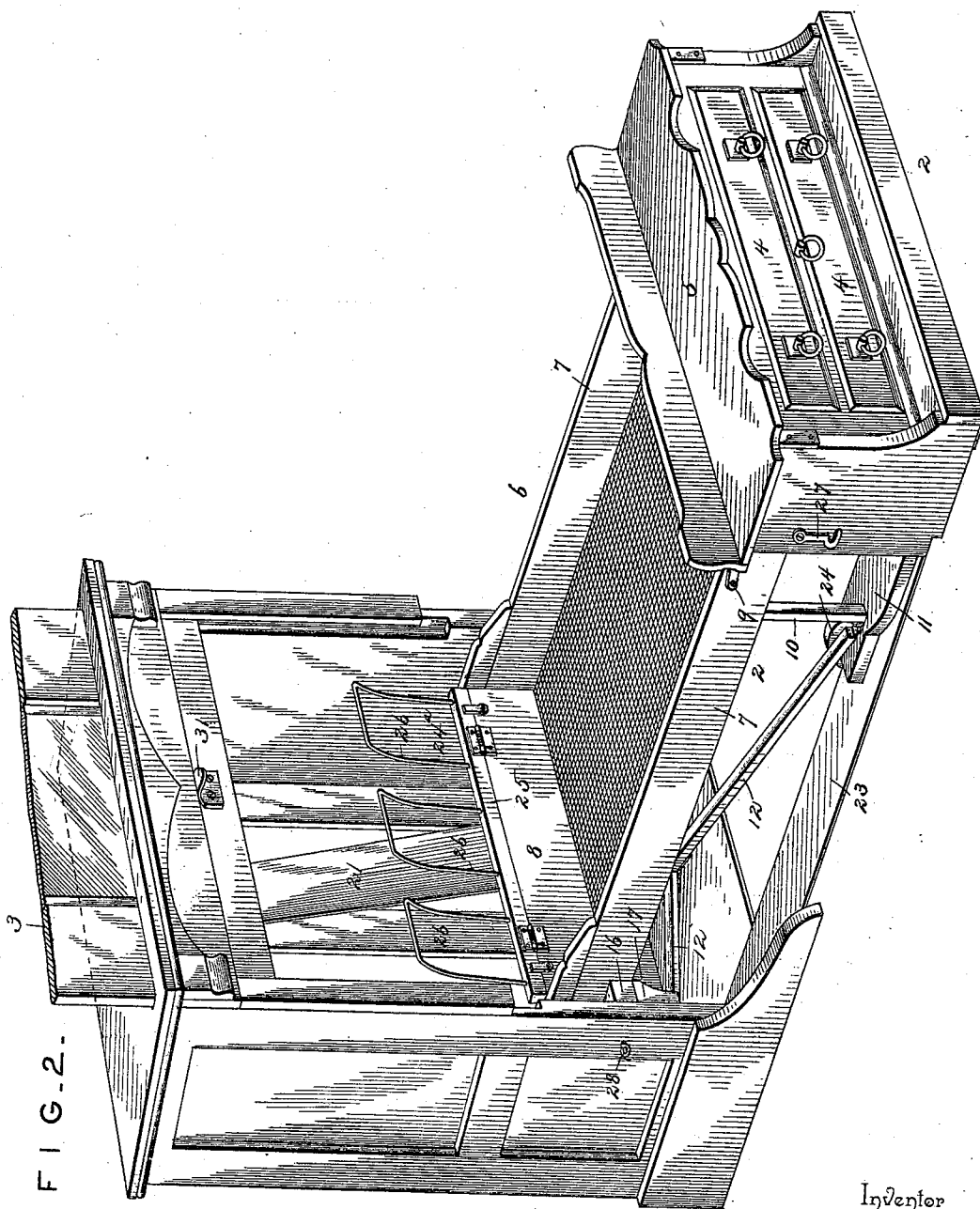


FIG. 2.

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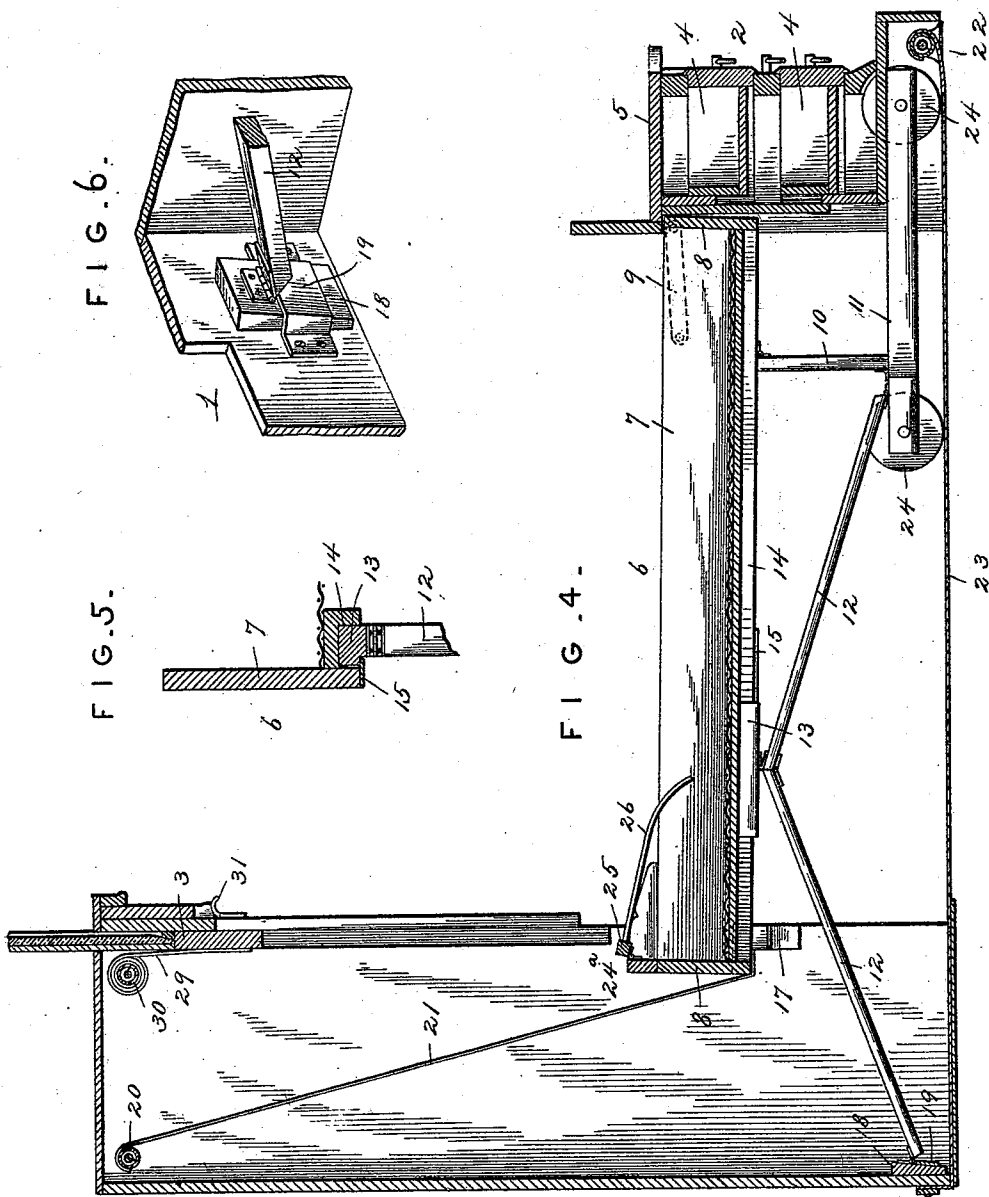
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UNITED STATES PATENT OFFICE.

GEORGE W. SANOR, OF ROGERSVILLE, MISSOURI.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 553,968, dated February 4, 1896.

Application filed September 19, 1895. Serial No. 563,012. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. SANOR, a citizen of the United States, residing at Rogersville, in the county of Webster and State of Missouri, have invented a new and useful Folding Bed, of which the following is a specification.

This invention relates to an improvement in folding beds, and the object in view is to provide a simple, efficient and ornamental combination folding bed and dressing-case in which the movable parts supported and balanced by means of suitable tapes and spring-rollers whereby the device may be readily and quickly folded down into position for use as an ordinary bed and again folded up and concealed, said adjustments being effected with a minimum amount of exertion.

A further object of the invention is to construct such an article of furniture so that in the manipulation thereof, as above described, suitable tracks will be automatically laid and taken up, said tracks being in the form of flexible tapes which assist in supporting and balancing the bed-frame and also prevent the rollers from injuring and soiling the carpet.

A further object is to support and guide the bed-frame by means of toggle-arms interposed between the front and rear portions of the case and located beneath the side rails of the bed.

Other objects and advantages of the invention will appear in the course of the subjoined description.

The invention consists in an improved combination folding bed and dressing-case embodying certain novel features and details of construction and arrangement of parts, as hereinafter fully described, illustrated in the drawings and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of the improved article, the same being shown closed or in its folded position and adapted for use as a dressing-case. Fig. 2 is also a perspective view showing the same folded into position to be used as a bed. Fig. 3 is a vertical transverse section through the same with the parts in the same position as in Fig. 1. Fig. 4 is a similar view with the parts thrown down into the position shown in Fig. 2. Fig. 5 is a detail sectional view through one of the side rails of the

bed-frame. Fig. 6 is a detail perspective view showing the hinged and detachable connection between the rear toggle-arms and the back of the rear case.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

Referring to the accompanying drawings, 1 designates the rear or upright portion of the frame or case of the improved article, and 2 the front and movable portion thereof, said parts, when brought together into the position shown in Fig. 1, constituting a dressing-case or bureau. The main or upright portion 1 is provided with a vertically-slidable mirror-frame 3, and the movable section 2 of the case is provided with sliding drawers 4 and a top or table 5, as shown.

The main or upright and stationary case 1 is constructed of sufficient width and depth to accommodate and entirely inclose a folding bed-frame 6. This frame may be made of any desired size and comprises the usual side rails 7 and the head and foot rails 8, connecting the same. The bed-frame is pivotally connected with the movable case 2 by means of metal straps or links 9, pivotally secured to the side rails of the bed, and this end of the bed-frame is firmly supported by means of vertically-disposed legs or standards 10, which are hinged at their upper ends to the lower faces or edges of the side rails 7, and hinged at their lower ends to the upper faces of a pair of rearwardly-extending arms or frame-pieces 11, secured to the base of the movable case 2. The rear or upper end or head of the bed-frame is left disconnected from the upright stationary case 1, and is partially supported and guided in its movements by means of two pairs of toggle-arms 12. Each set of toggle-arms has its front member hinged at its forward extremity to the arm or frame-piece 11, above referred to, and the other member hinged at its rear extremity to the slatted back of the upright case 1 in close proximity to the floor. The inner adjacent ends of each pair of toggle-arms are hinged together and are also hinged to a slide 13 which travels in a groove 14 in the lower edge of one of the side rails of the bed, said slide being retained therein and prevented from escaping therefrom by means

of a guard or cleat 15, preferably formed of metal and secured to the lower edge of the siderail 7, and partially underlying the groove therein and also extending partially beneath the slide 13. By reason of this construction, when the front case 2 is pushed toward the rear or stationary case 1 the toggle-arms 12 will elevate the bed-frame so as to throw the head thereof upward within the upright frame 1. The particular arrangement and disposition of the metal straps or links 9 and the legs or standards 10 admit of the foot of the bed-frame swinging downward at the same time that the head is folded upward, thus economizing space and rendering the completed article more compact. The head of the bed-frame is firmly supported by means of blocks 16, secured to the side rails 7 adjacent to the head-board, the said blocks being arranged to rest upon other blocks or stops 17, secured to the inner adjacent faces of the end pieces of the upright case 1, as shown in Fig. 2.

In order to provide for detaching the bed-frame from the upright case 1 when occasion requires, the rear numbers of the toggle-arms, instead of being hinged directly to the back of said upright case, are hinged to vertically-movable slides or blocks 18, which fit and rest within metal loops or sockets 19 secured to the slatted back of the upright frame 1.

20 designates a spring-roller which is journaled in bearings near the top of the upright case 1, and 21 a flexible tape which is wound around said roller and extends downwardly to and connects with the head of the bed. The tension of the spring within the roller 20 is sufficient, when the movable case 2 is thrust backward, to lift the head of the bed and draw the same upward into the position shown in Fig. 3. Another similar spring-roller is journaled in the bottom of the front or movable case 2, as shown at 22, and from this roller a pair of flexible tapes extend backward to and connect with the back of the upright case. These last-named tapes 23 are spaced apart and underlie the horizontal arms or frame-pieces 11. Carrying-wheels or casters 24 are journaled in the front and rear ends of the frame-pieces 11, and in the forward and backward movements of the movable case 2 these wheels or casters travel upon the flexible tapes 23, said tapes serving as tracks for said wheels and preventing the same from injuring or soiling the carpet. At the same time the spring-roller 22 automatically winds up said tapes and gets them out of the way as the front case 2 is pushed backward. The tension of the spring-roller 22 also assists in the backward movement of the case 2 and the folding of the bed.

24^a designates a combined head-board and pillow-clasp. This comprises a strip or bar 25, which is connected with the head-board of the bed-frame by means of spring-hinges, and also comprises a series of U-shaped or looped wire frames 26, which project from the swinging edge of said strip and are curved

in such manner as to extend over and embrace the pillows, bolster, &c., and prevent the same, together with the bedding, from sliding downward when the bed is folded, the spring-hinges serving to retain the frames 26 in close engagement therewith. When the front case 2 has been thrust back against the upright case 1, it may be connected with the latter by means of hooks 27, pivotally secured to the front case 2 and engaging screw-eyes 28 on the upright case. The vertically-slidable mirror-frame 3 is upheld and balanced by means of a flexible tape 29, one end of which is secured to said frame and the other end to a spring-roller 30, journaled near the top of the upright case and just in rear of the mirror-frame. The mirror-frame is manipulated by means of any suitable hand-hold 31. The combined folding bed and dressing-case hereinabove described is simple in construction, comprises few parts, and may be raised and lowered with the greatest possible ease on account of the same being balanced and the weight thereof equalized by the spring-rollers referred to.

It will be apparent that the article may be finished in any desired manner according to the taste of the manufacturer, and that any desired material or combination of materials may be used in the construction thereof.

Various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In a folding bed, the combination of a stationary case, a movable case adjustable relatively thereto, a bed-frame having a hinged connection with the movable case, and the toggle-arms hinged at their extremities to and connecting said stationary and movable cases and also having a hinged and sliding connection with the bed-frame, substantially as set forth.

2. In a folding bed, the combination with a stationary upright case, and a movable case adjustable toward and away from the same, of a folding bed-frame having a hinged connection with the movable case, toggle-levers interposed between the stationary and movable cases, and a slide traveling in a groove in the lower edge of the side rail of said bed-frame and having a hinged connection with said toggle-arms, substantially as specified.

3. In a folding bed, the combination with a stationary case, and a movable case adjustable relatively thereto and mounted upon carrying wheels or casters, of a bed-frame having a hinged connection with the movable case, means for folding said frame within the stationary case, a spring-roller journaled in the base of said movable frame, and a flexible tape and track connected at one end to said spring-roller and at its other end to the

stationary case and passing beneath said carrying-rollers, substantially as and for the purpose described.

4. In a folding bed, the combination with a
5 stationary case, and a movable case, of a bed-frame having a pivotal connection with the movable case, means for folding said frame within the stationary case, and the vertically-disposed legs or standards interposed between
10 and hingedly connected to said bed-frame and arms or extensions of the movable case, substantially as set forth.

5. In a folding bed, the combination with a
15 stationary case, a movable case, and a folding bed-frame adapted to be folded within the stationary case, of a vertically-slidable frame or door for opening and closing the front of the stationary frame, a spring-roller journaled in said stationary case, and a flexi-

ble tape connected with said slidable frame 20 or door and passing around said spring-roller, substantially as specified.

6. In a folding bed, the combination with the bed-frame, of a combined head-board and spring-actuated pillow-clasp hinged thereto 25 and comprising a series of U-shaped wire-loops curved in such manner as to embrace the pillows and retain the same in place when the bed is folded, substantially as and for the purpose described.

30 In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE W. SANOR.

Witnesses:

N. T. BOALS,
J. M. WATTS.