June 30, 1931. H. G. KIMBLE 1,812,298

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Fig. 1.

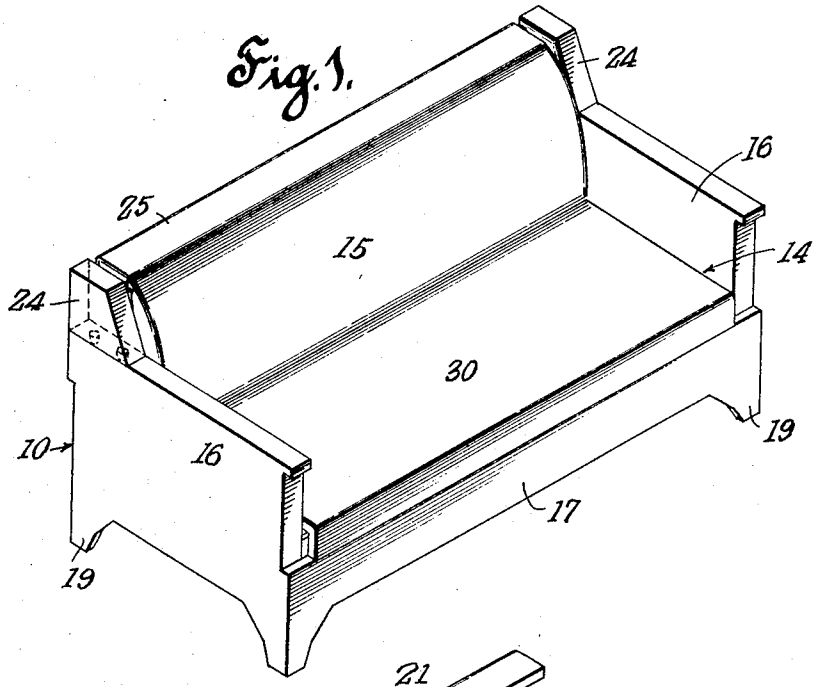
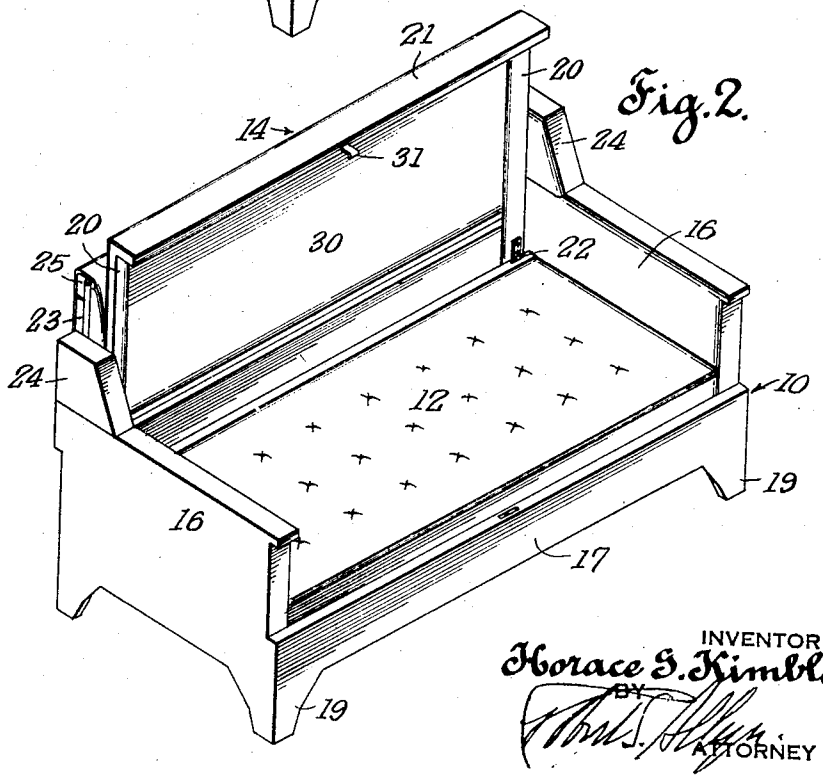


Fig. 2.



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Fig. 3.

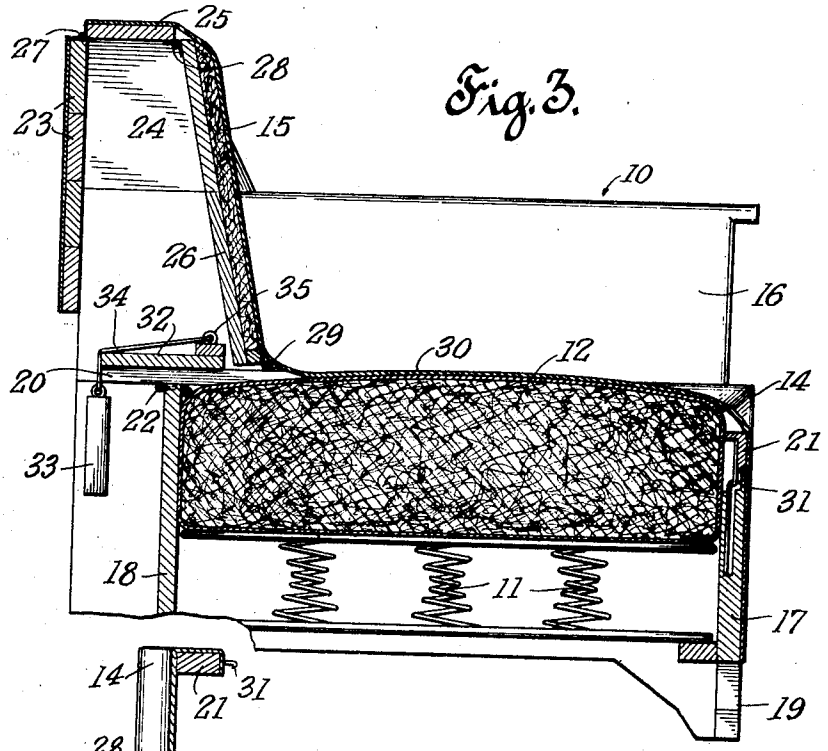
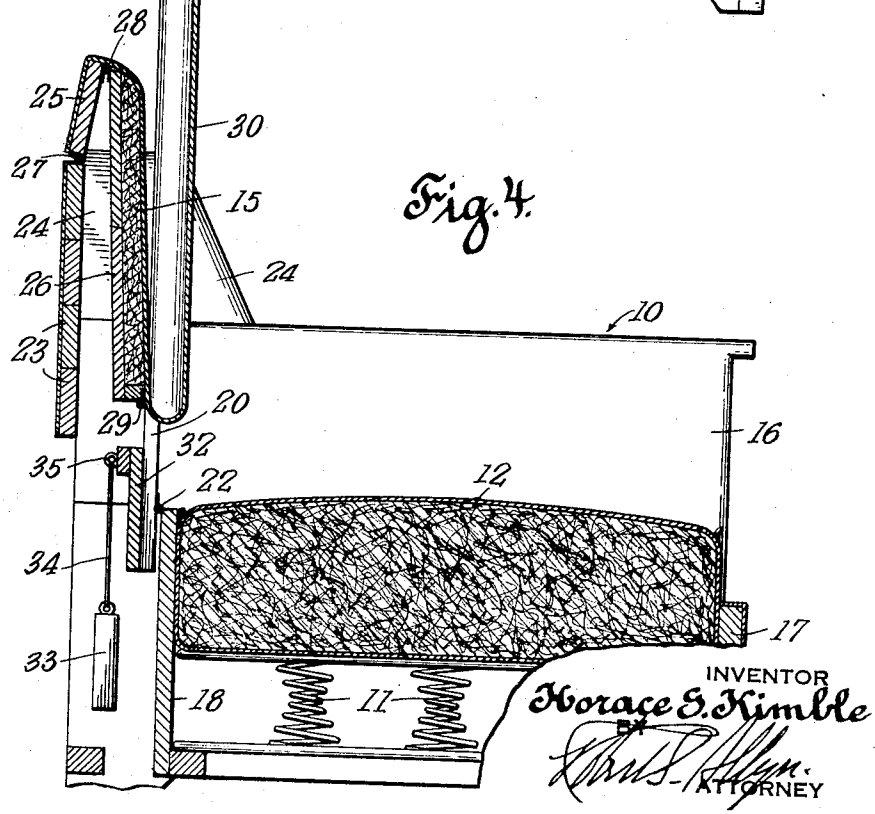


Fig. 4.



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Fig. 5.

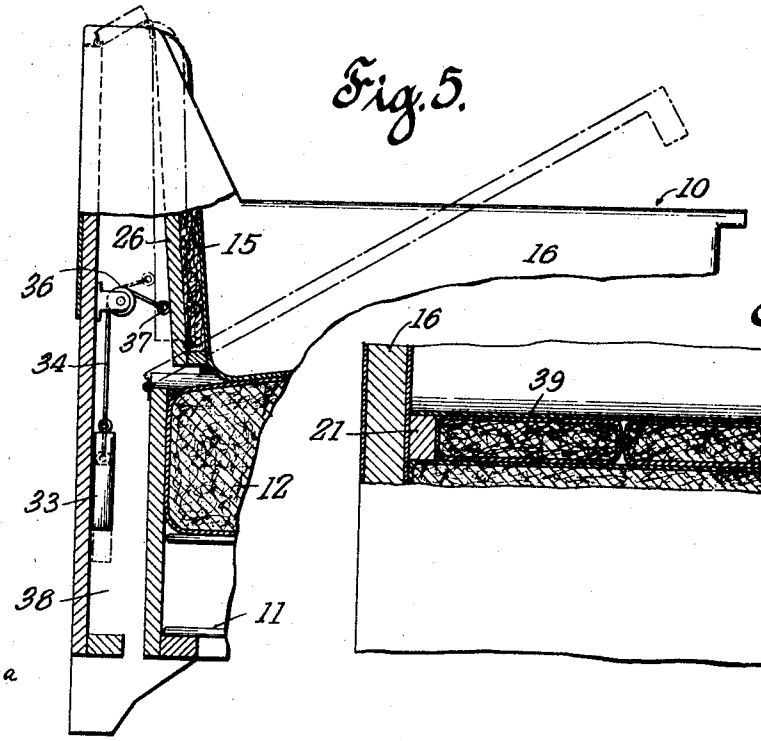


Fig. 7.

Fig. 8.

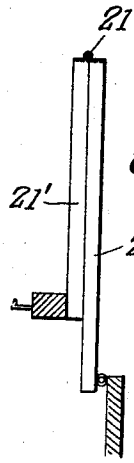
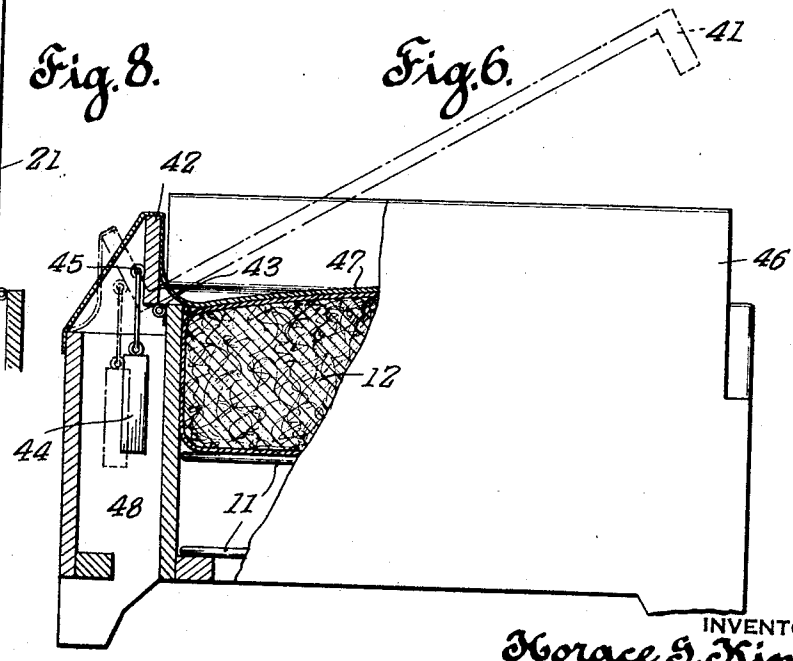


Fig. 6.



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Patented June 30, 1931 1,812,298

UNITED STATES PATENT OFFICE

HORACE G. KIMBLE, OF BROOKLYN, NEW YORK

BED

Application filed December 17, 1928. Serial No. 326,654.

My invention relates particularly to non-folding beds. The main object is to provide a construction embodying the usual type of spring and mattress and yet which may be so ornamental and camouflaged that it may be used in a sitting room or parlor.

In carrying out the invention I provide a bedstead or framework of any suitable design or material constructed so as to accommodate more or less standard types of springs and mattresses. This bedstead is sufficiently modified from standard practice to accommodate a special screen or cover which conceals the mattress in the day time and yet which can be readily moved out of the way at night or whenever the bed is to be used as such. This screen is preferably hinged to one side of the bedstead and provided with a back portion so constructed and arranged that when the screen is raised the back is folded clear from the bed. When the screen is lowered over the bed the back comes into position to serve as a back rest. The invention may be embodied in various forms, designs and arrangements.

Fig. 1 is a perspective view of one construction showing the bed disguised as a couch or the like.

Fig. 2 shows the screen raised and the mattress disclosed.

Fig. 3 is a transverse section showing the screen in place covering the bed.

Fig. 4 is a similar sectional view showing the screen raised.

Fig. 5 is a view similar to Fig. 3 of a modification and also showing in dot and dash lines the screen partly raised.

Fig. 6 is a transverse section and end elevation of a modified construction and showing in dot and dash lines the screen partly raised.

Fig. 7 is a fragmentary longitudinal sectional view and front elevation showing another modification.

Fig. 8 is a fragmentary transverse sectional view showing a jointed or hinged screen member.

The framework or bedstead 10 is suitably constructed to support any suitable type of spring construction 11 and any suitable type of mattress 12. The screen, cover or lid consists of the main portion 14 and the back member 15 which normally conceal the mattress and bed clothes.

The bedstead is provided with ends 16, front board or side 17, and a rear board or side 18, and may have legs 19 of any suitable character which may, if desired, be detachable for shipping and transportation purposes.

The main screen portion has side bars 20 at the ends of the bed connected at the front by a front bar 21, which extends along one side of the bed and rests upon the front board 17. The framework of the screen is hinged at 22 to the upper edge of the back portion 18 so that when the screen is raised the entire mattress is exposed.

The back of the screen is supported at its upper end by boards 23 which are secured to the extension pieces 24. These extension pieces and boards may be removable if desired for convenience in shipping and storing and in fact the entire upper part of the ends 16 may also be removable. The back 15 consists of two boards 25 and 26 which of course may be made of any number of pieces and of any suitable material. The top board is hinged at 27 to the back board 23 and hinged at 28 to the inclined board 26. The board 26 in turn is hinged at 29 to the side bars 20 of the screen frame. The screen is provided with any suitable fabric 30 of any suitable ornamental design and material adapted to cover the mattress as well as the back, as shown, for instance, in Fig. 1. The front edge of the screen may be suitably secured by means of a latch 31 when the screen is down. By detaching the hinges 27 the back of the screen may be folded over on top of the mattress for shipping purposes and the back boards 23 and extensions 24 knock down so as to make the construction more compact and easier to handle.

The screen may be reinforced at the rear by a cross-bar or board 32 which connects the bars 20. A counter weight 33 has a cord or chain 34 which extends over the rear edge of the board 32 and is secured at 35 to the board 32 and thus exerts a turning movement

on the screen. The screen fabric 30 may be reinforced by canvas or webbing, etc., if desired.

Preferably the weight is so adjusted that there is normally but little if any tendency for it to lift the screen from the position shown in Fig. 3, but when the latch of the screen is released and the screen is raised part way the weight becomes effective to assist in lifting the screen and moving the parts into the position shown in Fig. 4 where the weight tends to hold the screen in its raised position. In this position the screen of course leaves the mattress entirely exposed and itself constitutes a screen at one side of the bed which may be utilized either to screen or shield the bed from the light or to shut off draught from a window or door.

In the construction shown in Fig. 5 the counter-weight cord 34 passes over a pulley 36 which is secured to the rear wall of the bedstead and the front end of the cord is secured to anchorage 37 which is fixed to the back 26 of the bedstead. This construction is somewhat more compact and encloses the counter-weight in a recess or chamber 38 at the back.

The pillows 39 may be placed on the mattress for instance at opposite ends of the bed when the screen is closed down and the space between may be filled in by extra bed clothes or pillows inserted for instance in a pocket 40 which may be secured to the screen covering 30. Such a pocket may be of any suitable construction or size designed to hang or otherwise support blankets and so forth in any suitable manner. This pocket would be open or easily opened and accessible when the screen is raised.

The construction shown in Fig. 6 is more of the type commonly termed a "divan" and a screen frame 41 is provided with a back 42, which is secured to its rear edge which is hinged at 43. In this case the counter weight 44 is hung directly from the back of this board 42 at 45. The ends 46 are approximately the same height as the back board 42. The cover fabric 47 extends over the rear edge of the bed and covers the counter-weight recess 48.

In some cases it may be desired to hinge the screen frame so that it will take up less vertical height, for instance, the end bars may have extensions 21′ hinged to them at 21*a*, as shown in Fig. 8.

Other arrangements and changes in construction may be made without departing from the spirit and scope of my invention.

For instance, a spring or springs may be used in place of the counter-weights to aid in raising the screen. So also a catch may be used to hold the screen in its raised position, if desired.

When the screen is raised the bed is instantly ready for use. When the bed is "made up" the bed clothes can be instantly concealed by simply dropping the screen.

When we speak herein of the mattress being covered or exposed of course we intend to include the bed clothes which usually cover the mattress and which are covered or exposed when the screen is down or up as the case may be.

I claim:

1. A combination bed and seat having a fixed support for a mattress, a screen arranged to extend over said bed providing a seat and mounted adjacent a longitudinal edge portion of said support to be swung to an upstanding position exposing said bed, a stationary back near the edge of said support adjacent which said screen is mounted and extending above the screen in its lowered position, a movable back pivotally attached to said screen and stationary back and movable upwardly and toward said stationary back when the screen is raised, said movable back extending well over the rear longitudinal edge portion of said bed to constitute a back rest for the seat and make the seat of less depth than the width of the bed, and said movable back also being in a position to the rear of the fixed mattress support when raised, and said screen being substantially out of the way of a person getting in and out of bed.

2. A combination bed and seat having a fixed support for a mattress, a screen arranged to extend over said bed providing a seat and mounted adjacent the longitudinal edge portion of said support to be swung to an upstanding position exposing said bed, said screen comprising a skeleton frame and flexible fabric forming a covering for the bed and top of the mattress when used as a seat whereby the mattress serves as a seat cushion.

3. A combination bed and seat having a fixed support for a mattress, a screen arranged to extend over said bed providing a seat and mounted adjacent a longitudinal edge portion of said support to be swung to an upstanding position exposing said bed, a stationary back laterally spaced from the end of said support adjacent which said screen is mounted and extending above the screen in its lowered position, a movable back pivotally attached to said screen and stationary back and movable upwardly to a position with at least the lower end of the movable back in rear of the fixed mattress support and toward said stationary back when the screen is raised substantially out of the way of a person getting in and out of bed, said movable back extending well over the rear longitudinal end portion of said bed to constitute a back rest for the seat and make the seat of less depth than the width of the bed, and said movable back comprising two hinged portions one constituting a back rest and the other

spacing said back rest from said stationary back.

4. A combination bed and seat construction comprising a bedstead, a mattress supported within the bedstead and having its front edge projecting above the front edge of the bedstead, a screen member comprising a frame hinged to the rear of the bedstead and having a front rail adapted to extend over the front edge of the mattress and rest on the front edge of the bedstead and flexible fabric covering said frame and movable therewith and adapted when said frame is down to form a close envelope for the top of the mattress whereby the mattress serves as a seat cushion, said frame being adapted to be swung to an upstanding position to entirely expose the mattress.

5. In a bed construction a mattress support, a frame hinged beyond the rear edge of the mattress and having a seat covering member adapted to cover the mattress when the frame is in closed position, a stationary back portion, a back rest hinged to the frame in front of the hinge of the frame and extending at its lower edge part way over the mattress when the frame is in closed position, and a jointed top connection for the back rest between and connected to said stationary back portion and said back rest and adapted to fold back when the frame is raised so as to expose the mattress, with the lower end of the back rest in rear of the mattress support and said frame when raised being out of the way of a person getting in and out of bed.

6. A combined bed and seat having a mattress, a fixed support for said mattress, a screen arranged to extend over said mattress providing a seat adapted to be swung to an upstanding position exposing the mattress for use as a bed, a support for said screen, said screen comprising a frame and flexible fabric forming a cover for the mattress when used as a seat whereby the mattress serves as a seat cushion.

HORACE G. KIMBLE.