

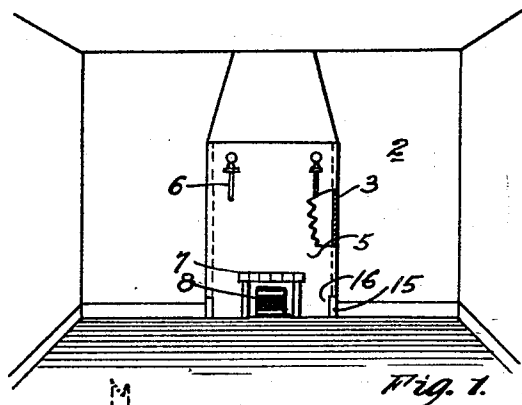
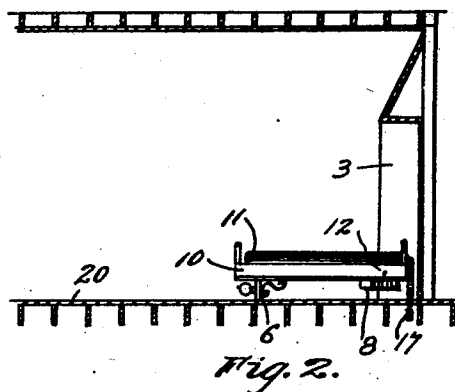
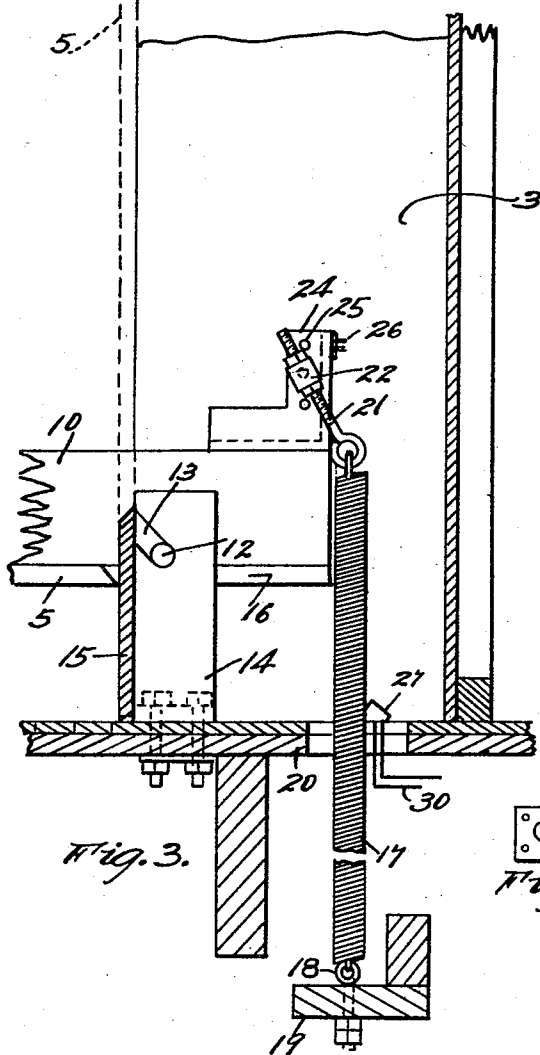
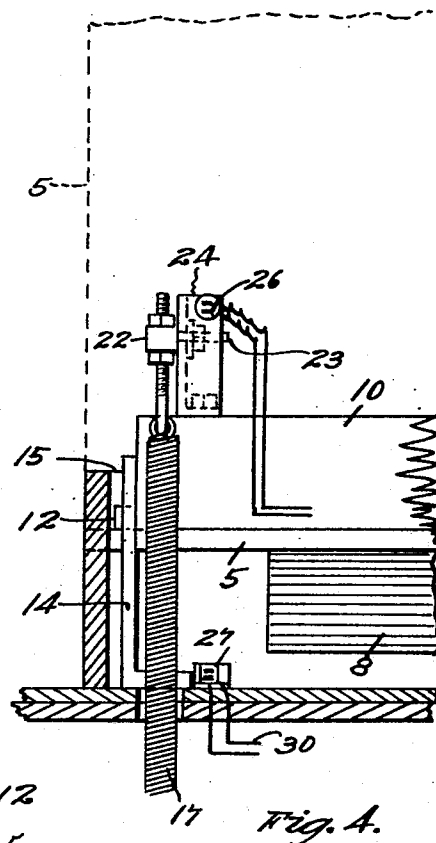
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CHIMNEY BREAST WALL BED

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UNITED STATES PATENT OFFICE

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CHIMNEY BREAST-WALL BED

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This invention relates to so-called "wall beds" of the general class involving a wall recess in contiguity to which there is pivotally supported a bed frame which is concealed in upright position by a panel or door over the front opening to the recess.

A serious objection to all types of wall beds using panels which swing on a vertical axis to open the recess and permit the bed to then be tilted out and down is that too much floor area is covered in the aggregate actions and involves the movement of all pieces of furniture which happen to be in the sweep and zone of movement of the swinging panel and the tiltable bed.

An object of the present invention is to provide a very simple wall bed structure with means for fully masking the bed effect and which permits of the ready lowering and raising of the bed part with the least requirement of floor area and commotion of furniture in a room.

To that end an object is to provide a wall bed which eliminates all vertical axis panels and the like and has a bed part requiring only a tilting action of its structure on a horizontal axis to fully draw the bed from its recess and expose it in a horizontal position.

A further purpose is to provide a novel, simple, low-cost and practical counter-poising spring mechanism for the bed.

Also, a desideratum is to provide an effective simulation of a chimney structure whose breast constitutes a panel part of the wall bed to conceal it in vertical position; and in this connection an object is to provide means for automatically closing the electric circuits of electric apparatus mounted on the front of the panel.

The invention consists of certain advancements in this art as set forth in the ensuing disclosure and having, with the above, additional objects and advantages, and whose construction, combination and details of means, and manner of operation will be made manifest in the description of the herewith illustrative embodiment; it being understood that modification, variations and adaptations may be resorted to within the scope, principle and

spirit of the invention as it is more directly claimed hereinafter.

Figure 1 is a front perspective of the wall structure.

Figure 2 is a vertical section from front to rear of the wall and showing the bed in lowered position.

Figure 3 is an elevational view of a corner of the lowered bed frame and associated parts the wall being in vertical section.

Figure 4 is a rear elevation of a corner of the bed frame and its chair.

Figure 5 is a face view of a bed trunnion.

The apparatus shown embodies a wall 2 having a recess 3 which is built out in representation of a chimney whose breast is in the form of a panel 5 provided with electric light brackets 6 for lamp bulbs to which current is supplied by circuits combined with the panel. The lower part of the breast panel 5 is provided with a simulated fireplace 7 in which is fixed a suitable heater 8, preferably of the electric type served by connection with the above mentioned circuits; though a gas heater may be employed if preferred.

The panel 5 is secured to a bed frame 10, carrying a mattress 11, whose lower corners are provided with fixed trunnions 12 disposed just rear of the panel and which are dropped into open mouths of slots 13 in upright chairs 14 which are fixed to the floor of the recess, or otherwise as may be appropriate to a given structural, supporting part of the recess 3. The mouths of the chair slots are covered by sections of battens 15 which correspond to corner mortises 16 of the panel 5; being flush with the upright panel.

Means, provided to counter-poise the bed and panel assembly, are secured thereto and to anchors in the recess or below the floor thereof as may be preferred or requisite. Such means comprises a set of springs 17 having ends attached to stationary anchors 18; shown in Fig. 3 as eye-bolts in a beam 19 under the floor 20.

The upper end of each spring has an eye-pin 21 which is adjustable in a suitable head 22 of a swivel pin 23 journaled in a bracket 24 fixed on the respective, rear corner of the

bed frame 10. The bracket 24 has a series of pin holes 25 selective for insertion of the swivel pin to vary tension of the attached spring; whose tension may also be changed
5 by adjustment of the eye-pin 21 in the swivel head.

When the bed structure is moved to an upright position to be concealed in the recess by the panel 5 a circuit closing part 26 carried
10 by the moving structure is brought into effective position with a complementary part 27 fixed in its path, so that an electric circuit connected to the lamp brackets and to the heater is safely closed to serve current thereto
15 when their individual switches are closed in the obvious manner of such equipment. The fixed circuit part 27 is served by connected house service conductors 30.

It will be seen that when the bed is tilted
20 down to horizontal position the lamp brackets form legs supporting the outer end of the bed.

The springs 17 act on lines of force back of the pivots on which the bed tilts and therefore
25 when the bed is upright all effort of the springs is toward keeping it in such position.

What is claimed is:

A bed frame, fixed side standards between and on which the frame is tiltably supported,
30 one end of the frame projecting beyond the standards; fixed upright brackets on the cross end-piece of the said projecting part of the frame and being provided with side faces set back from near corners of the frame; co-
35 axial pivot pins swivelled in the brackets and having heads bearing against the said faces, eye-bolts threaded in said heads and having the eye parts at their lower ends and adapted to swing to a stop position against
40 the cross end-piece of the frame, and counterbalancing springs attached at their upper ends to said eye-parts and being anchored to fixed supports at their lower ends.

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