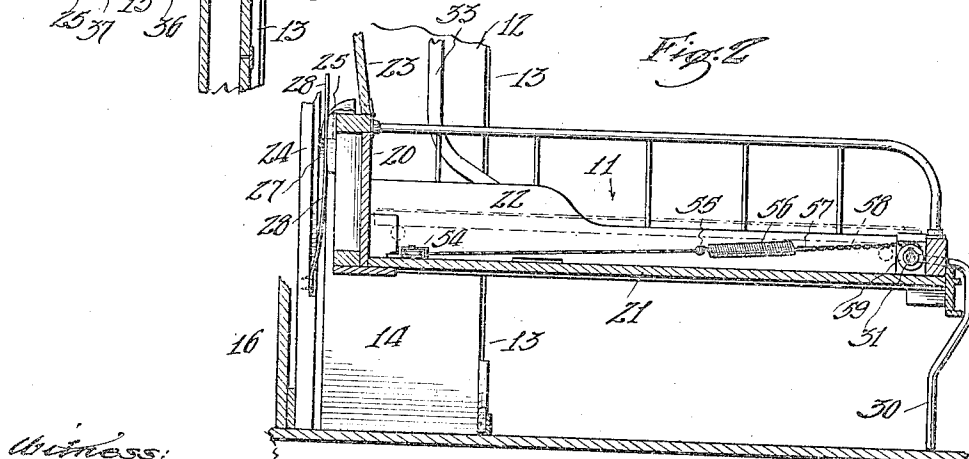
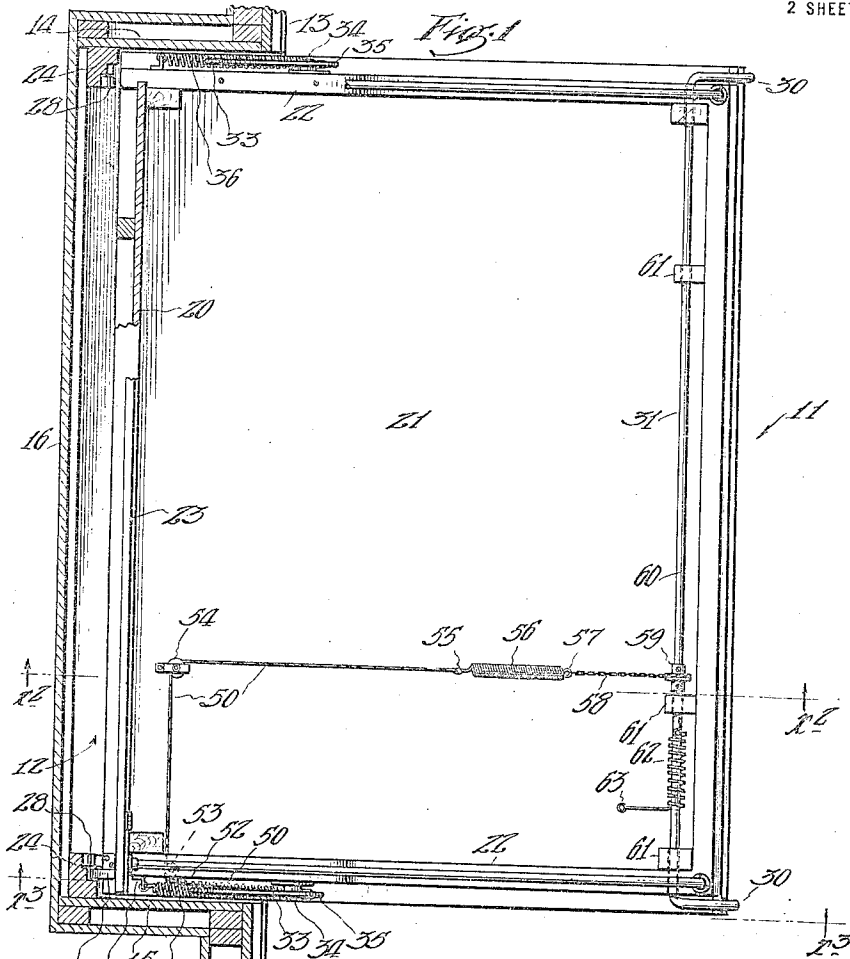


1,253,872.

R. B. PAGE,  
FOLDING BED.  
APPLICATION FILED MAY 18, 1915.

Patented Jan. 15, 1918.  
2 SHEETS—SHEET 1.



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# UNITED STATES PATENT OFFICE.

RESCUE B. PAGE, OF LOS ANGELES, CALIFORNIA.

## FOLDING BED.

1,253,872.

Specification of Letters Patent. Patented Jan. 15, 1918.

Application filed May 18, 1915. Serial No. 28,992.

To all whom it may concern:

Be it known that I, RESCUE B. PAGE, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles, State of California, have invented a new and useful Folding Bed, of which the following is a specification.

My invention relates to folding beds, and the principal object of the invention is to provide a new form of folding leg for the outer edge of the bed when it is let down.

A further object of the invention is to provide a novel locking means for holding the bed in its lowered position and adjustable means for adjusting the height of the inner edge of the bed.

My invention is illustrated as applied to a wall bed, the bed being built into a cavity in the wall and folding up so as to be flush with the wall when the bed is raised.

Further objects and advantages will be evident hereinafter.

Referring to the drawings which are for illustrative purposes only:

Figure 1 is a plan view of the bed in its lowered position.

Fig. 2 is a sectional view of the bed on the plane  $x^2-x^2$  of Fig. 1.

Fig. 3 is a sectional view of the bed on the plane  $x^3-x^3$  of Fig. 1.

Fig. 4 is a sectional view of the bed on the plane  $x^3-x^3$  of Fig. 1 with the bed in the raised position.

Fig. 5 is an enlarged view of the pivot casting.

Fig. 6 is a section on the plane  $x^6-x^6$  of Fig. 5.

In the form of my invention illustrated in the drawings a bed 11 is arranged to swing into a cavity 12, the cavity 12 being formed in a wall 13 and the bed being practically flush with the wall when swung into place as shown in Fig. 4. The cavity is formed by end walls 14 and 15 and a back wall 16. The bed consists of a back member 20, a base member 21, and head and foot members 22, these head and foot members having rails preferably formed of brass pipe which may be highly polished or ornamented.

Hinged to the back member 20 is a side board 23 which is adapted to move with the bed 11 and to inclose and retain the bed

clothes thereon when the bed is swung into the raised position.

Secured in the cavity 12 are track members 24 and secured to the back board 20 of the bed 11 are guide members 25, these guide members coacting with and sliding on the track members 24. The track members 24 are cut away as shown at 26 to form a shoulder 27, this shoulder being in such a position that the guide members 25 hook over the shoulder 27 in the lowered position of the bed as shown in Fig. 3, flat leaf springs 28 being provided to serve as buffers and friction means. The outer end of the bed member 11 is supported by folding legs 30, these legs being secured to a common shaft 31, the shaft 31 turning freely in bearings 61 carried by the head and foot members 22 so that the legs 31 can swing in the direction of the arrows 32 of Fig. 3 as the bed 11 is raised, assuming the position shown in Fig. 4 when the bed is closed.

Supporting links 33 are pivoted on pins 34 carried on plates secured to the head and foot members 22 of the bed 11, the arms 33 having projections 35 to which tension springs 36 are secured, the other end of these springs 36 being secured to a bracket 37 fixed to the head and foot members 22. The links 33 are pivoted at their upper end on a pin 40, being retained thereon by a washer 41 and a bolt 42 as shown in Fig. 6. The pivot 40 is carried on a pivot casting 43 which turns about the central screw 44, being clamped against the end walls 14 and 15 by means of screws 45 which pass through slots 46 formed in the casting 43. A projecting lug 47 is also formed on the casting 43, this lug fitting in a cavity 48 formed in the end wall 14 or 15 to which it is secured, and a shim 49 being provided for the purpose of raising or lowering the projection 47 in the cavity 48. By loosening the screws 45 and placing a thicker or thinner shim in the cavity 48 the casting 43 can be secured in various positions. The pin 40 being eccentrically placed on the casting 43 the rotation of this casting raises or lowers the pin 40, this tending to give a height adjustment to the inner end of the bed 11, the screws 45 being employed to lock the casting 43 in position after it is properly adjusted.

For the purpose of raising and lowering

the folding legs 30 a cord 50 is provided, this cord being secured in a hole 51 in one of the arms 33, passing over a pulley 52, a pulley 53, and a pulley 54, secured to the bed 11. The cord is then secured to one end 55 of a tension spring 56, the other end 57 of this spring being secured to a chain 58 which passes over and is secured to a pulley 59 rigidly secured to the shaft 31 which is rigidly connected to each of the folding legs 30, the shaft 31 turning in the bearings 61 secured to the head and foot members 22. A torsion spring 62 is secured to the shaft 60 and to the bed 11 at the point 63 and is so wound that it tends to rotate the shaft 31 and the folding legs 30 in a direction opposite to the arrows 32 shown in Fig. 3. When the bed is lowered the spring 62 rotates the folding legs 30 into the position shown in Figs. 1, 2, and 3, thereby supporting the outer end of the bed. When the bed is raised toward the position shown in Fig. 4 the arm 33 pulls on the cord 50 and this pull of the cord is transmitted through the spring 56 and the chain 58 to the pulley 59, this pull being exerted in such a direction that the leg 30 is rotated in the direction of the arrows 32 against the action of the spring 62, the spring 56 being provided for the purpose of giving a resilient connection between the arm 33 and the folding leg 30.

When it is desired to raise the bed, it is first pulled outwardly from the wall in the direction of the arrow 70 shown in Fig. 3, the guide 25 being pulled beyond the shoulder 27 formed on the track 24 so that the bed can be lifted, the guide 25 thereafter sliding on the track 24. The leaf spring 28 serves to assist in moving the bed in the direction of the arrow 70 shown in Fig. 3 so that it is comparatively easy to disengage the guide 25 from the shoulder 27. As the bed is raised the back board 23 moves therewith into the position shown in Fig. 4, the folding leg 30 swinging around into the position shown in Fig. 4. When the bed is again lowered the guides 25 slide on the rails 24 until the guides 25 reach a position above the shoulder 27 which they engage, the spring 28 serving to make this engagement rather gradual.

I claim as my invention:

1. In a bed adapted to fold into and close a cavity, a pair of supporting links for carrying the inner end of said bed, a folding leg pivoted to the bed in such a position as to support the outer edge of the bed when in the lowered position, and means having an elastic element therein secured to said supporting links for rotating said leg upwardly and outwardly from said bed into said cavity during the upward movement of the bed.

2. In a bed adapted to fold into a cavity,

a pair of supporting links for carrying the inner end of said bed, a folding leg pivoted to the bed in such a position as to support the outer edge of the bed when in its lowered position, spring means tending to force said leg into its supporting position, and flexible means secured to said links for rotating said leg over the foot of said bed into said cavity during the upward movement of the bed, said flexible means having an elastic member forming a part thereof.

3. In a bed adapted to fold into a cavity, a folding leg, a shaft to which said leg is secured, spring means for rotating said shaft to throw said leg into the supporting position, a pulley on said shaft, and means secured to the pulley for rotating said pulley in such a manner as to throw said leg over the foot of said bed into said cavity as the bed is raised, said last named means having an elastic member therein to allow said means to continue movement after said leg has reached the limit of its movement.

4. In a bed adapted to fold into a cavity, a pair of supporting links for carrying the inner end of the bed, rotatable means for securing the upper ends of said links to the walls of the cavity and means whereby said rotatable means may be rotated to vary the position of the upper end of said links.

5. In a bed, a stationary supporting structure, a movable bed member, a folding leg pivoted to the outer edge of said bed member, links pivoted at their lower end to an intermediate point on said bed member, means secured to one of said links and to said legs for folding said legs over said bed member as said bed member is raised and means for pivoting the upper end of said links to said supporting structure.

6. In a folding bed, a supporting structure, a bed member, a pair of supporting links pivoted at their upper ends to said supporting structure and pivoted at their lower ends to an intermediate point on said bed member, a shoulder formed on said structure, means for locking a projection on the inner edge of said bed member over said shoulder in such a manner as to lock the bed in its lowered position, and elastic means engaging the inner edge of said bed adapted to partially overcome the inertia of said bed against the locking means.

7. In a folding bed a track secured to the fixed structure of the bed, a shoulder formed at the upper end of the track, a guide carried by the movable portion of the bed, said guide sliding on said track and locking over said shoulder when the bed is in the lowered position, and a flat spring secured to said track and tending to force said guide out of engagement with said shoulder when the bed is in the lowered position.

8. In a folding bed adapted to fold into a

cavity, circular members rotatably mounted on the supporting structure one at each side of said cavity, a pin on each circular member eccentrically placed thereon, a link pivoted at its upper end to said pin, means for pivotally connecting the lower end of said link to the bed, means whereby said circular member may be rotated to vary the position of the pin thereon with relation to the bed, and means for fixing the position of said rotatable member on said supporting structure. 10

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 11th day of May, 1915.

RESCUE B. PAGE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."