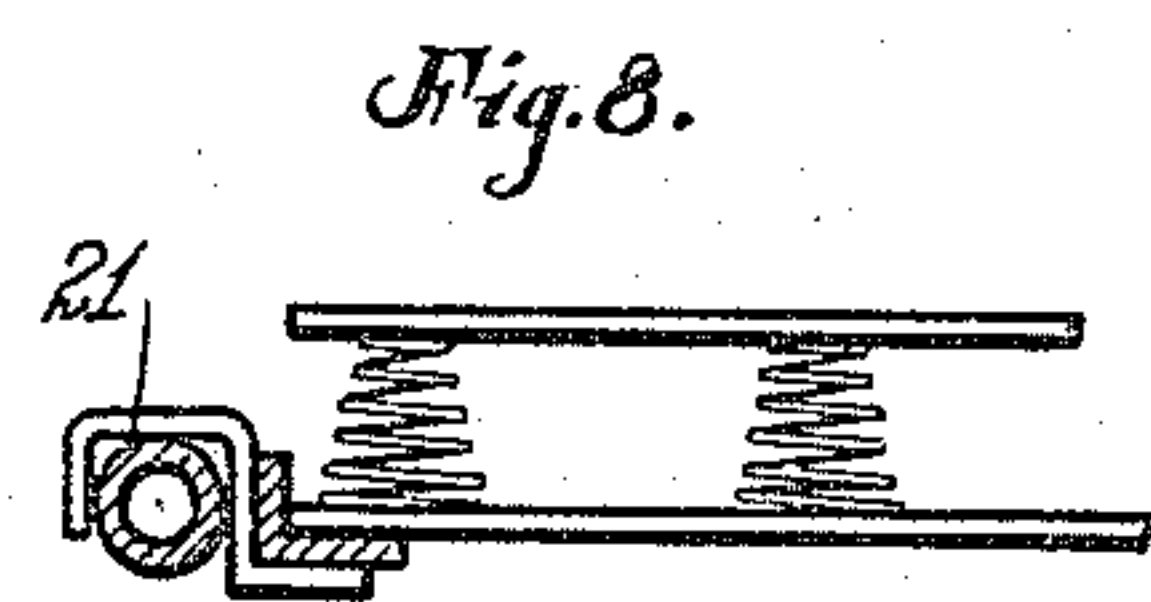
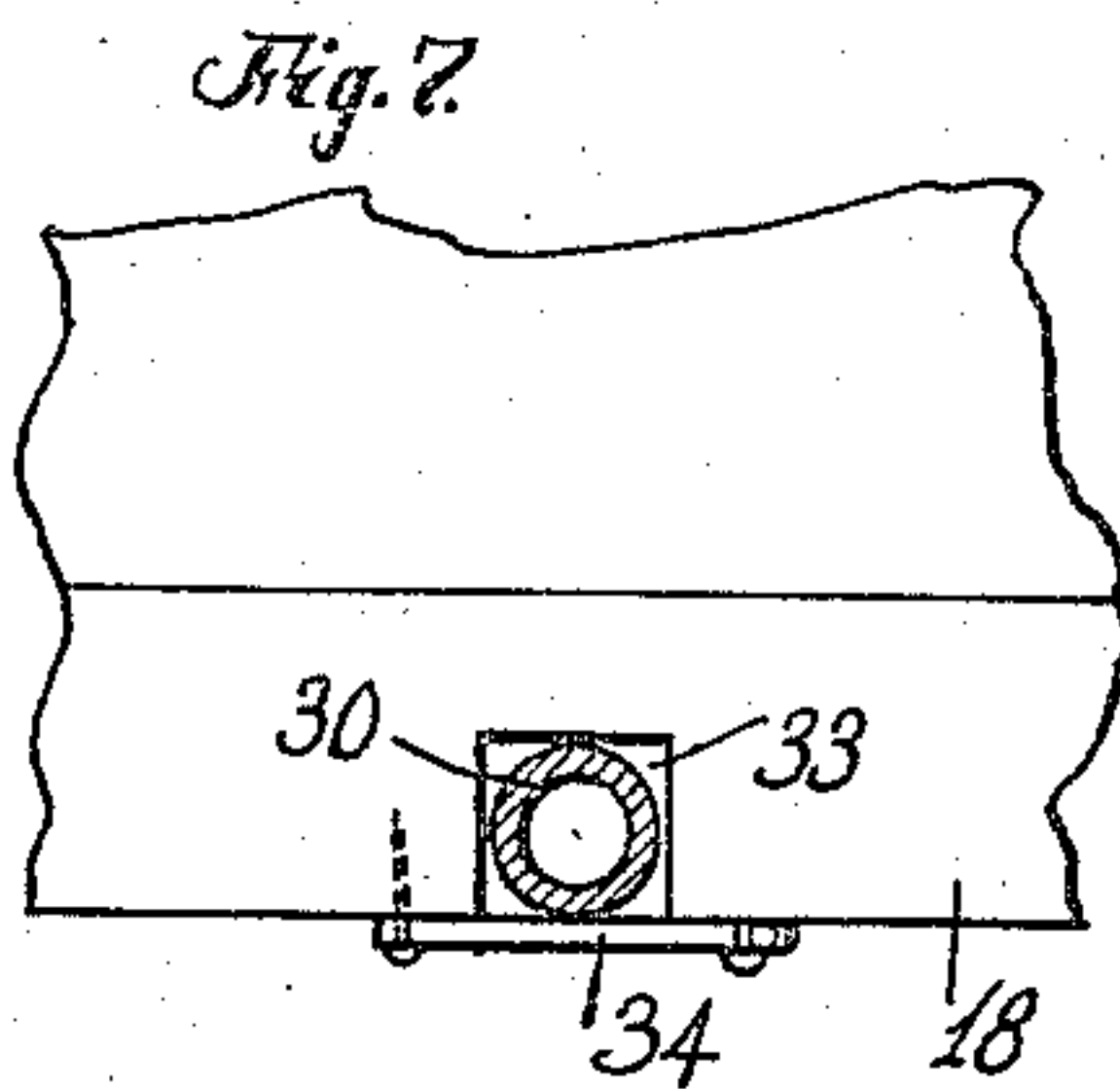
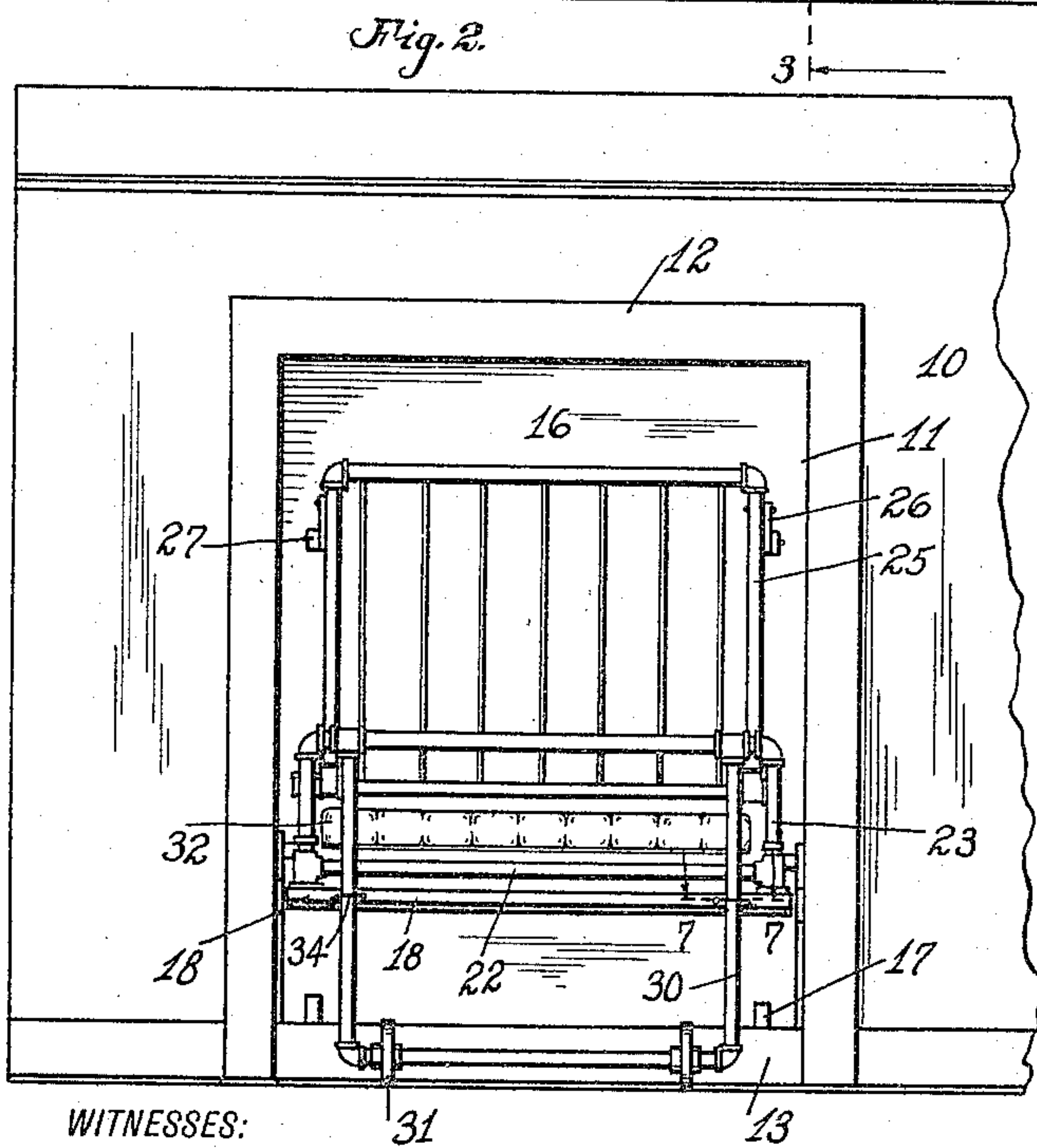
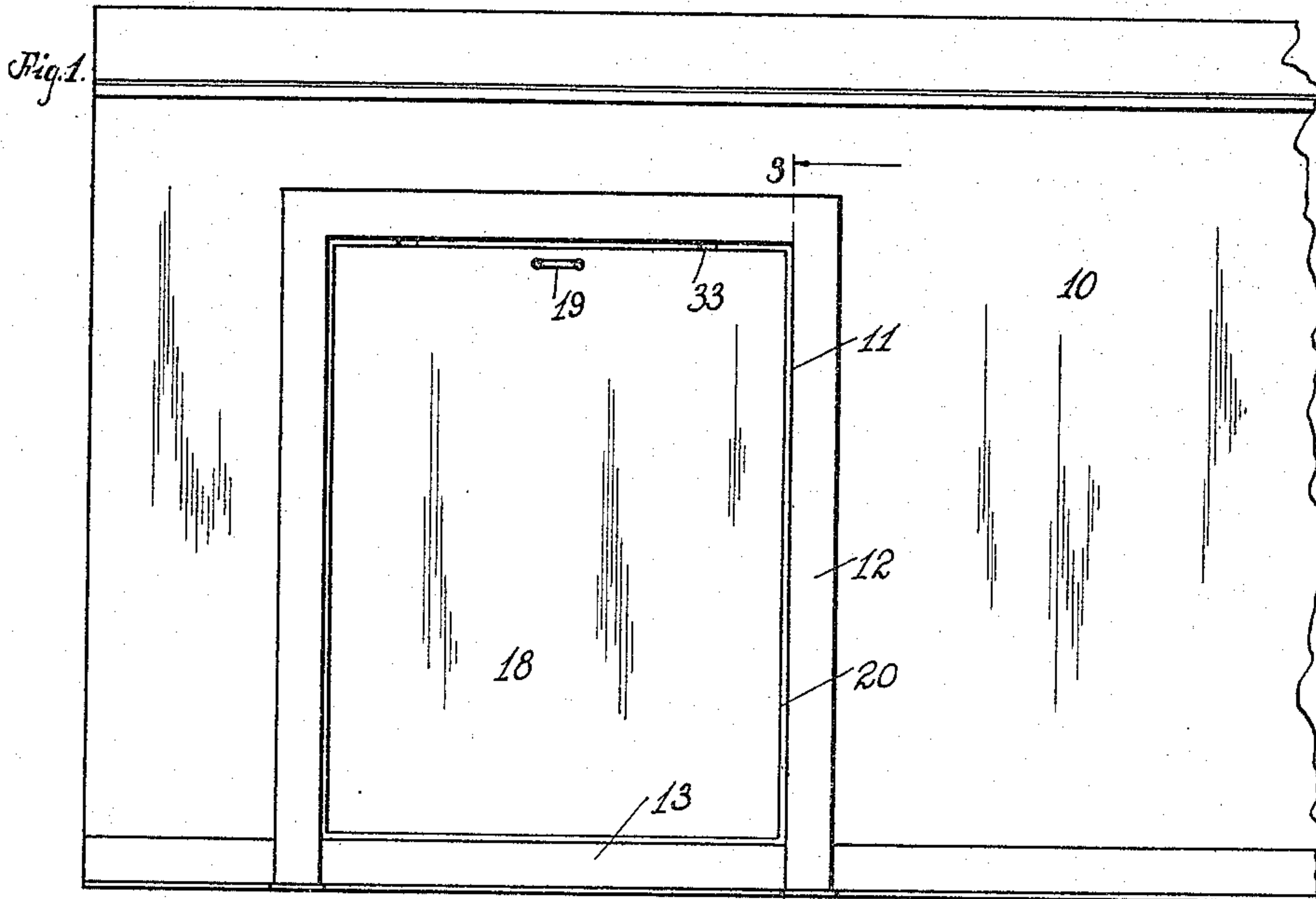


C. BENDER.
FOLDING BED.
APPLICATION FILED AUG. 3, 1914.

1,155,199.

Patented Sept. 28, 1915.
2 SHEETS—SHEET 1.



WITNESSES:

A. H. Edgerton.
R. H. Lockwood

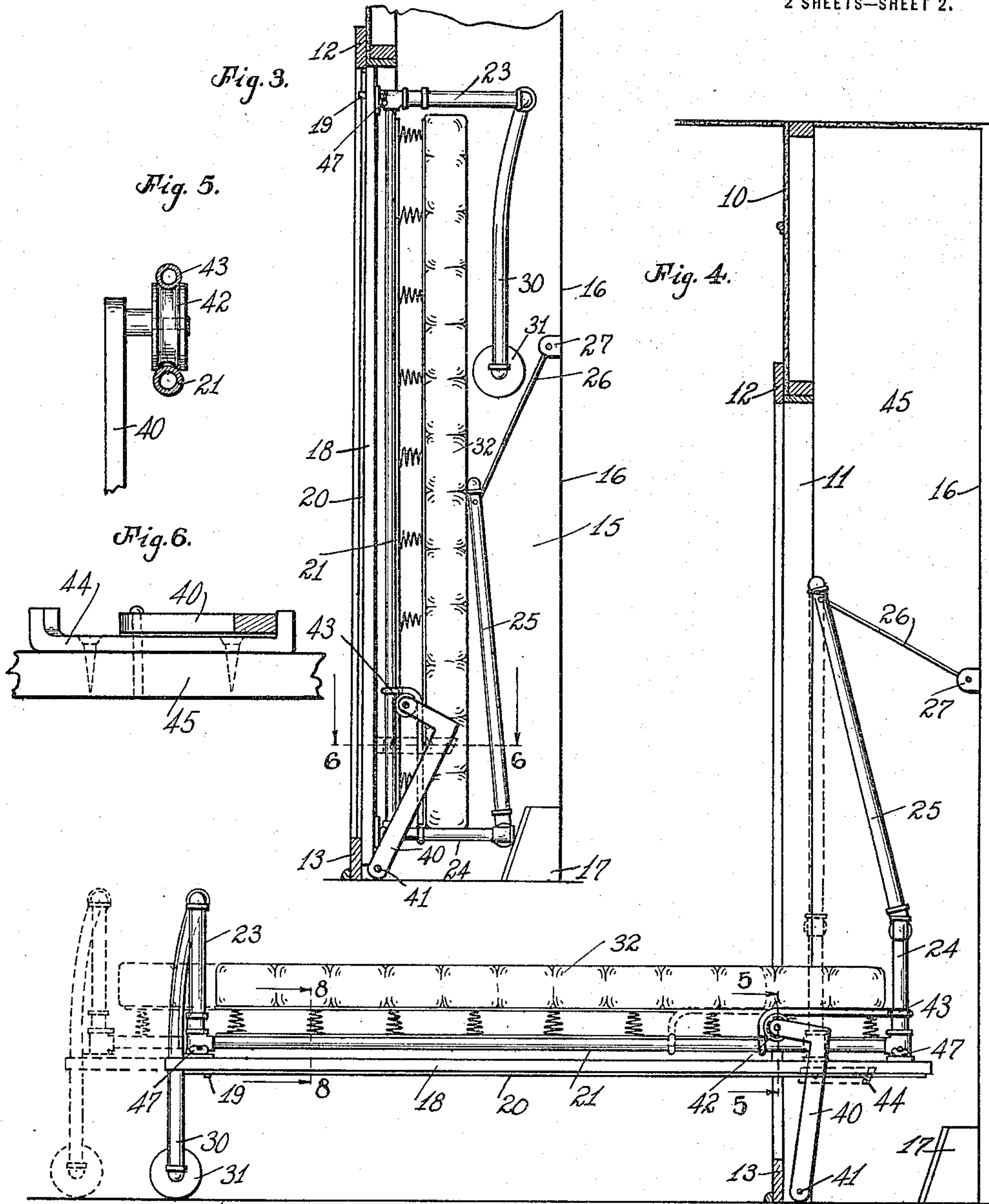
INVENTOR
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UNITED STATES PATENT OFFICE.

CONRAD BENDER, OF INDIANAPOLIS, INDIANA.

FOLDING BED.

1,155,199.

Specification of Letters Patent.

Patented Sept. 28, 1915.

Application filed August 3, 1914. Serial No. 854,722.

To all whom it may concern:

Be it known that I, CONRAD BENDER, a citizen of the United States, and a resident of Indianapolis, county of Marion, and State of Indiana, have invented a certain new and useful Folding Bed; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

The object of this invention is the arrangement of a folding bed in the wall of a room so that when folded up it will disappear into a chamber behind the wall of the room excepting that the outer surface of the bed will close the opening in the wall through which the bed operates and be flush with the wall.

Another object of the invention is to so construct such a disappearing folding bed that it will be easy to operate and will occupy very little space in the closet or chamber into which it is folded.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims.

In the drawings, Figure 1 is an elevation of the side of the bed room showing the bed in folded position. Fig. 2 is the same showing the bed in unfolded position. Fig. 3 is a section on the line 3—3 of Fig. 1, showing the bed folded. Fig. 4 is a similar section, showing the bed in unfolded position and showing by dotted lines the bed in its outermost position. Fig. 5 is a section on the line 5—5 of Fig. 4. Fig. 6 is a section on the line 6—6 of Fig. 3. Fig. 7 is a section on the line 7—7 of Fig. 4. Fig. 8 is a section on the line 8—8 of Fig. 4.

In detail the drawings show the side wall of a bed room with a bed closet opening 11 therein surrounded by a casing 12 and with a base board 13 extending through said opening. Behind the opening there is a bed closet 15, see Fig. 3, having a rear wall 16 and a block 17 is located on the floor of the closet against the rear wall. The bed opening 11 is of substantially the same width and height as the bed, and 18 is a bottom board of the bed when unfolded and the front of the bed when folded up and is made of material similar in appearance to the wall and is flush with the wall and it has on it a handle 19 near its upper end for

manipulating the bed and molding 20 surrounding the edge of the board 18.

There is shown an iron bed having a bottom arm composed of side bars 21 and end bars 22, foot 23 and a head formed of two members 24 and 25. The member 24 is rigidly connected with the bed frame while the upper part of the head of the bed is pivoted at its lower end to the upper part of its member 24 and at its upper end said head board is pivotally connected with the rear wall by rods 26 and ears 27, the latter being secured to the rear wall. When the bedstead is folded down in its outermost position, the members 24 and 25 are in vertical alinement with each other, as shown by dotted lines in Fig. 4. When the bed is folded up, said members are at right angles to each other, as shown in Fig. 3, and the lower end of the portion 25 rests upon the block 17 for partially supporting the bed in folded position.

The foot of the bed is supported by a frame 30 which is pivoted to the top of the foot of the bed and has rollers 31 on the free end of said frame adapted to travel upon the floor when the bed is unfolded, as seen in Fig. 4. When the bed is folded, said foot supporting frame is turned up over and lies upon or against the mattress 32. As shown in Fig. 7, the board 18 has notches 33 in it to receive the uprights of the supporting frame 30 when the bed is unfolded and set up after held in said recesses by releasable latches 34 on the outer edge of the board 18.

The inner end of the bed frame is supported by L-shaped bars 40 pivoted at the lower end of the longer portions to the side walls of the opening 11 by pins 41. The upper ends of the bars 40 are turned outward and they carry grooved rollers 42 which travel between the upper edge of the bed rail 21 and the underside of the bars 43, said bars at their inner ends being secured to the head frame 24 and extending outwardly parallel with the bed rail for a certain distance and then they are turned down and secured to the bed rail. These, therefore, form tracks for the travel of the rollers 42 and the ends of the track constitute limits for the travel of the rollers or the movement of the bed on the rollers.

The bars 40, as shown in Fig. 6, are limited in their movements in both directions by

the turned ends of stop bars 44 which are secured to the side walls 45 of the closet. When the bed is folded up, the bars 40 are at their inward limit of movement, as shown in Fig. 3. When the bed is unfolded, said bars are at their outward limit of movement, as shown in Fig. 4, where they are about vertical.

The operation of the bed is as follows: To unfold it, the handle 19 is grasped and the bed pulled down from the vertical position to the full line position shown in Fig. 4, and the foot supporting frame 30 is turned from the position on top of the bed clothes, which it holds in place over to the full line position shown in Fig. 4. Then the bed is pulled outward as far as the track 43 and the stop bar 44 will permit, as shown by dotted lines in Fig. 4. That will make the head substantially vertical and the head of the bed will be substantially in the bed opening 11 of the wall of the bed room. To fold up the bed, the bed is pushed inward from the dotted line position to the full line position shown in Fig. 4. Then the foot supporting frame 30 is turned up over the foot of the bed so as to lie on the mattress 32. Then the outermost part of the bed is pushed up to move the bed to a vertical position and during such movements the bars 40 rock to their inward limit of movement, as shown in Fig. 3, and the head members will bend to a right angle position and come down upon inclined surface of block 17, the upper member of the head moving down under the control of the connecting rods 26. That will bring the bottom board 18 of the bed flush with the wall

of the bedroom and close the opening 11, and wedge the lower end of the bed between baseboard 13 and block 17.

The cross bar 22 at the foot of the bed frame is solid and made heavy and weighted in order to assist in counterbalancing the bed. The board 18 is removably mounted to the bed frame at each end by nuts 47.

The invention claimed is:

1. The combination with a folding bed, of rocking bars for supporting the inner end of the bed, said rocking bars being turned outward at their upper ends, rollers on the forward upper ends of said rocking bars, guides on said bed for serving as a track for said rollers, means for pivotally mounting the lower ends of said rocking bars, and means for limiting the rocking movement of said bars.

2. The combination with a wall of a room having an opening therein, of a folding bed in said opening, rocking bars pivotally mounted at their lower ends to the side walls of said opening and turned forward at their upper ends, rollers on the forward upper ends of said bars, tracks on the bed in which said rollers operate, and means secured to the wall for limiting the rocking movement of said bars.

In witness whereof I have hereunto affixed my signature in the presence of the witnesses herein named.

CONRAD BENDER.

Witnesses:

J. H. WELLS,

R. G. LOCKWOOD.

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