

No. 614,377.

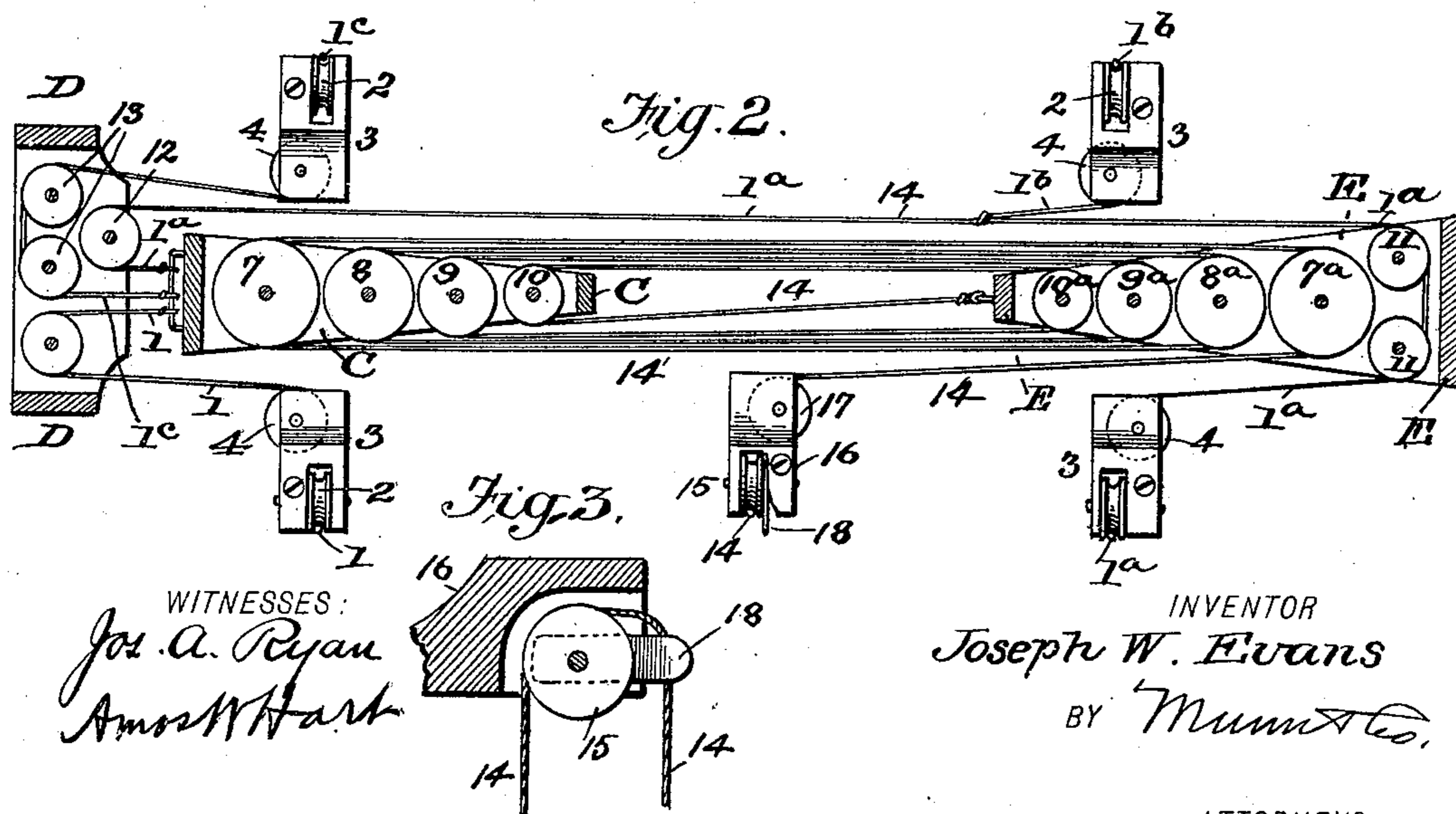
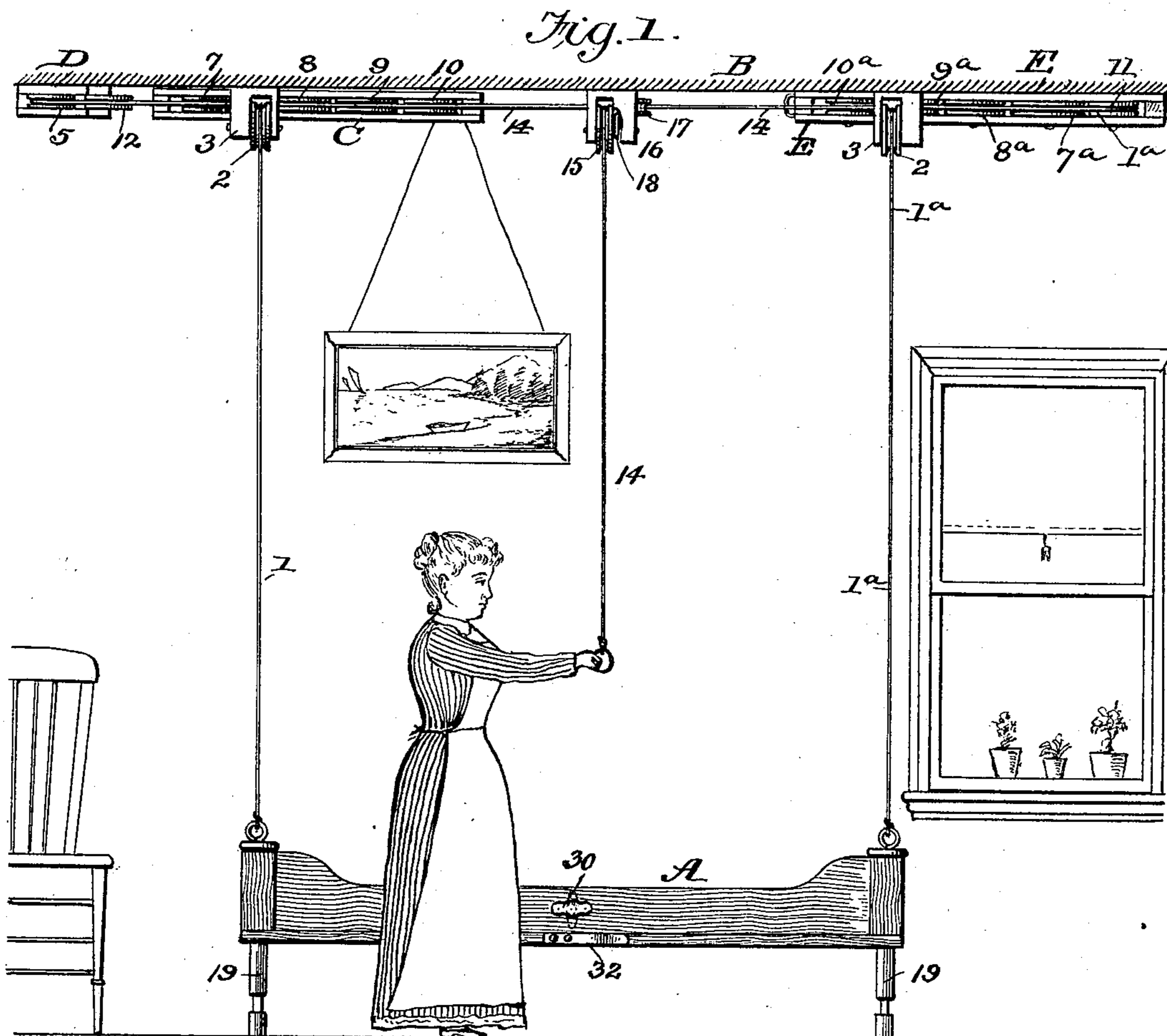
Patented Nov. 15, 1898.

J. W. EVANS.
FOLDING BEDSTEAD.

(Application filed Feb. 9, 1898.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES :

Joe A. Ryan
Amos W. Hart

INVENTOR

Joseph W. Evans

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ATTORNEYS.

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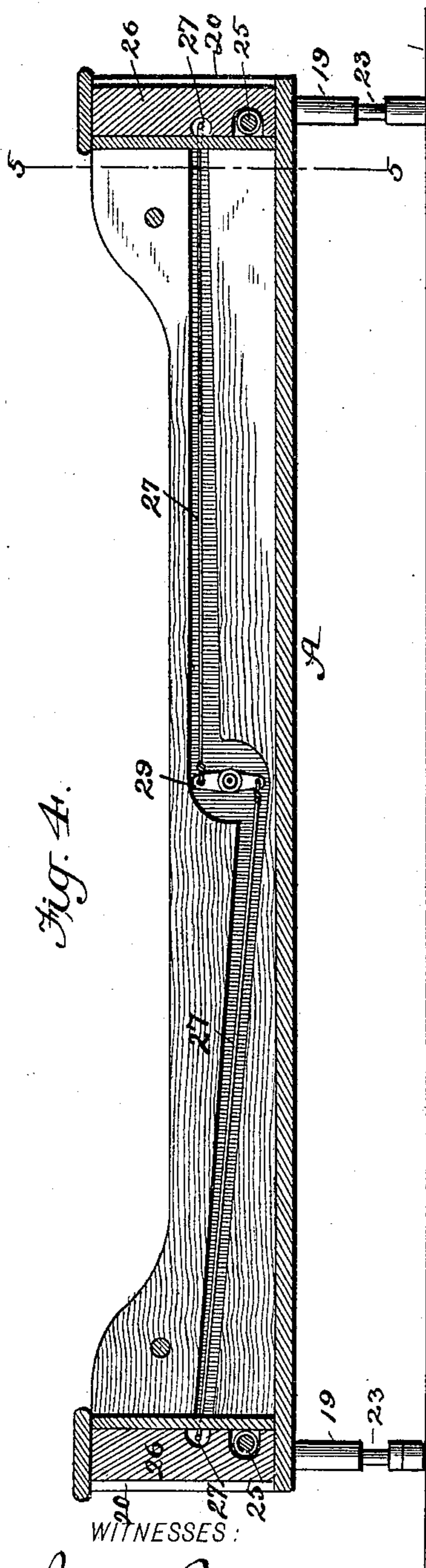
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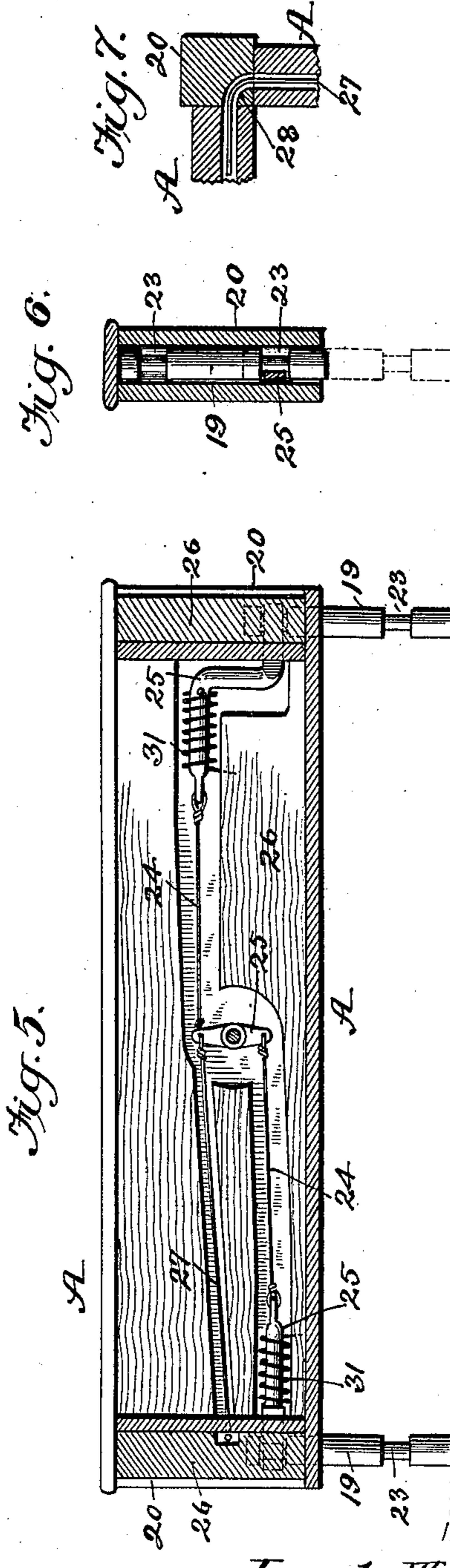
(Application filed Feb. 9, 1898.)

(No Model.)

2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

JOSEPH W. EVANS, OF HASKELL, TEXAS.

FOLDING BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 614,377, dated November 15, 1898.

Application filed February 9, 1898. Serial No. 669,681. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH W. EVANS, of Haskell, in the county of Haskell and State of Texas, have invented a new and useful Improvement in Folding Bedsteads, of which the following is a specification.

My invention is an improvement in the class of beds or bedsteads which are adapted to be elevated or hoisted to the ceiling, so that they will occupy no floor-space when not in use.

The invention is embodied in the construction, arrangement, and combination of parts hereinafter described, and shown in the accompanying drawings, two sheets, in which—

Figure 1 is a view illustrating the practical use of my invention. Fig. 2 is a sectional plan view of the pulleys and other parts attached to the ceiling. Fig. 3 is an enlarged detail section of one of the pulley-brackets attached to the ceiling. Fig. 4, Sheet 2, is a longitudinal section of the bed or bedstead. Fig. 5 is a transverse section of the same. Fig. 6 is a vertical section of one of the corner blocks or posts of the bedstead, showing the slidable leg retracted therein. Fig. 7 is a horizontal section of a corner block or post.

A bedstead A, having a duly rigid frame, is suspended by cords 1 1^a 1^b 1^c, that run over pulleys 2, Fig. 2, journaled in brackets 3, attached to the ceiling B or a support secured thereto. Such support may be constructed of boards properly connected and paneled, if desired, to present an ornamental appearance, and be secured to the ceiling proper by means of screws or screw-bolts. From the vertical pulleys 2 the cords 1 1^a 1^b 1^c pass over other pulleys 4, arranged horizontally in the same brackets 3, being thus at right angle to the former 2.

The cords 1, attached to one corner of the bedstead A, (see Fig. 2,) extend horizontally from a pulley 4 over a pulley 5, journaled in a fixed bracket D, and thence to a horizontal slide or movable block C, containing a series of pulleys 7 8 9 10, which are graduated in size and arranged in line.

The cord 1^a passes from a pulley 4 around pulleys 11, journaled in a fixed horizontal bracket E, thence to and around a pulley 12 in bracket D, and is attached to the slide C like cord 1. The cord 1^b is connected directly

with cord 1^a, so that both operate practically as one in respect to the slide C. The fourth cord 1^c passes around pulleys 13 in bracket D and also connects with the slide C.

A pull-cord 14, Fig. 1, hangs from a pulley 15, journaled in a bracket 16, and passes from pulley 17 in said bracket (see Fig. 2) around pulley 7^a in bracket E, and thence around pulley 7 in slide C, and so on in succession around pulleys 8^a and 8, 9^a and 9, and 10^a and 10, arranged in the bracket E and slide C, respectively.

It is apparent that a comparatively slight pull on cord 14 will draw the slide or pulley block C toward the fixed pulley block or bracket E, whereby the four cords 1 1^a 1^b 1^c attached to the bedstead A will be drawn up or shortened correspondingly and the bedstead thus raised to the ceiling B. The pull-cord 14 may be then clamped and secured by throwing it over a spring-clamp 18, Figs. 1 and 3.

For the purpose of supporting the bed-bottom or bedstead A on the floor I employ legs 19, which are slidable or adjustable in bores or sockets formed in the corner-pieces 20 of the bedstead. Said legs 20 are adapted to be locked in retracted position, as shown in Fig. 6, or extended position, as shown in Figs. 1, 4, and 5, by means of latches 21 and 22, which are arranged in the ends of the bedstead A. The said latches are arranged horizontally and their outer ends are adapted to engage recesses or notches 23 in the legs 19. The latches are connected by wires or cords 24 with the ends of rocking levers 25, Fig. 5, which are pivoted centrally to the respective end boards 26 of the bedstead. Wires or cords 27 also connect with one end of said levers 25 and extend through guide-holes 28, Fig. 7, in two of the corner-pieces 20 of the bedstead, and thence along one of the side rails to a rotatable device 29, Fig. 4, located at the middle of the latter. Said device 29 consists of a short journal or shaft having two radial arms on its inner end to which the said wires 27 are attached. The outer end of said journal or shaft has a handle or grip piece 30, Fig. 1, attached for use in rotating the device 29 and thereby taking up the wires or cords 27, which operation retracts the latches 25 against the stress of spiral springs

31, that encircle them, and thus releases the legs 19, which fall by gravity, and the grip being released the latches 25 reengage the upper notches 23 of the legs.

5 To hoist the bed to its normal elevated position, the grip is first turned to unlock the latches and the bed allowed to sink to the floor, so that the latches reengage the lower notches 23. Then the cord 14 being pulled the
10 bed is raised and the cord caught by the catch 20, as before described, and is thus entirely out of the way. A spring-catch 32 on the bedstead may be used to hold the free end of the pull-cord.

15 A cover of ornamental fabric or other preferred material may be applied to the under side of the bed to conceal the slats, &c., if desired.

What I claim is—

20 1. The combination, with the bedstead, supporting-cords, and a series of guide-pulleys therefor, fixed members or brackets having

pulleys therein, and the movable slide C having a series of guide-pulleys journaled thereon, the elevating-cords secured to the slide, 25 and passing over the pulleys in both the fixed members and slide, as shown and described.

2. The combination with a bedstead, of the four suspending-cords 1, 1^a, 1^b, 1^c, pairs of vertical and horizontal pulleys 2 and 4, the 30 pull-cord 14, and the several series of fixed pulleys, and a slide carrying movable pulleys, the aforesaid suspending-cords running on said pairs of pulleys and certain of the fixed pulleys and being also connected with said 35 slide, and a pull-cord which runs on the movable pulleys and certain fixed pulleys, whereby it actuates the said slide and thereby applies traction to the several suspending-cords, as shown and described.

JOSEPH W. EVANS.

Witnesses:

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B. A. GLASSCOCK.