

Oct. 4, 1927.

1,644,043

P. TIEDEMANN

ADJUSTABLE COT

Filed Feb. 9, 1923

3 Sheets-Sheet 1

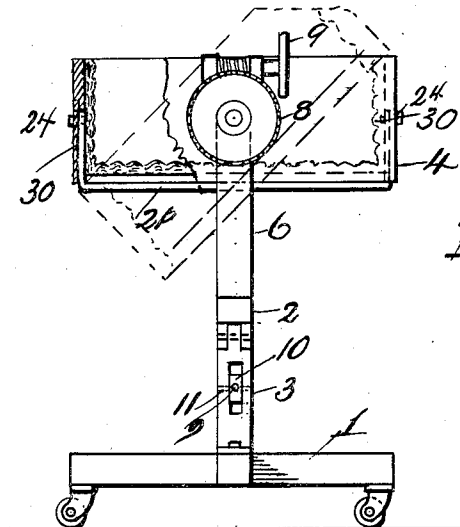


Fig. 1

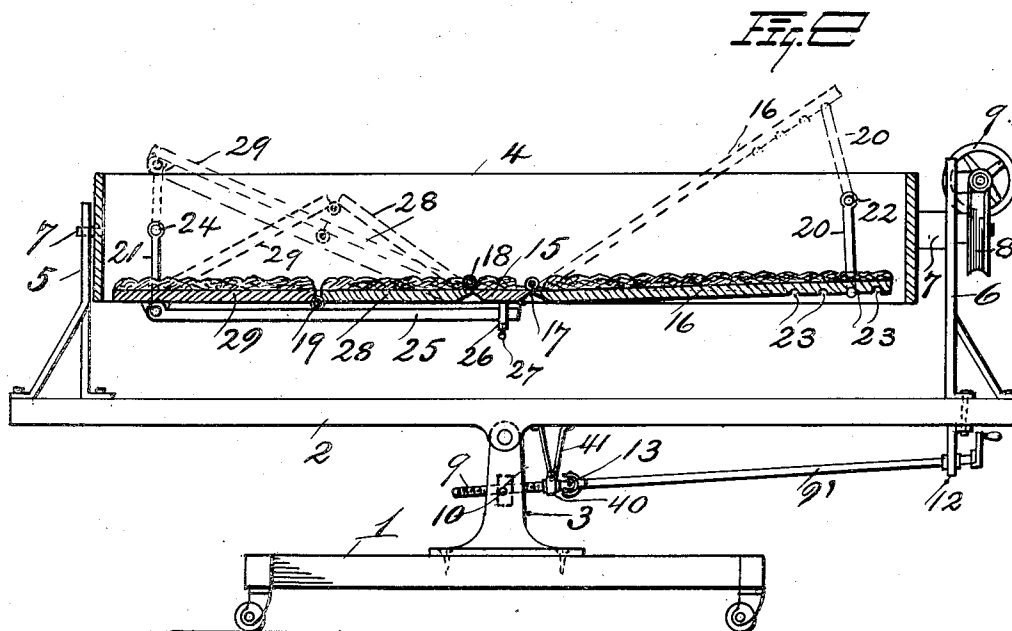


Fig. 2

Inventor

Paul Tiedemann

Wm W. Monroe

By

Attorney

Oct. 4, 1927.

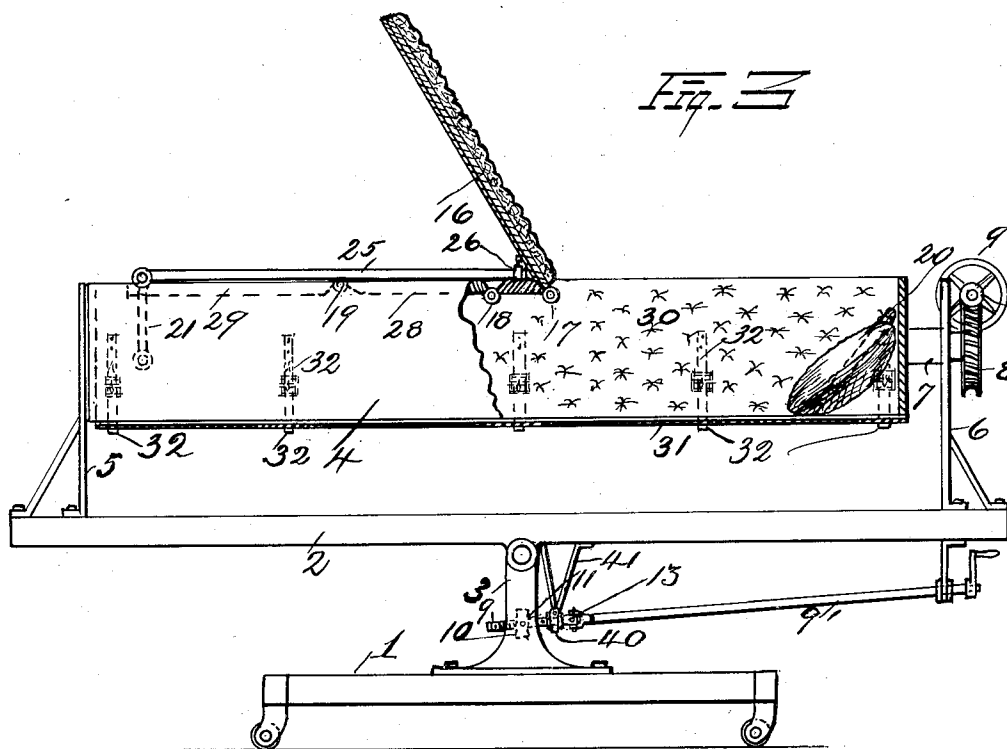
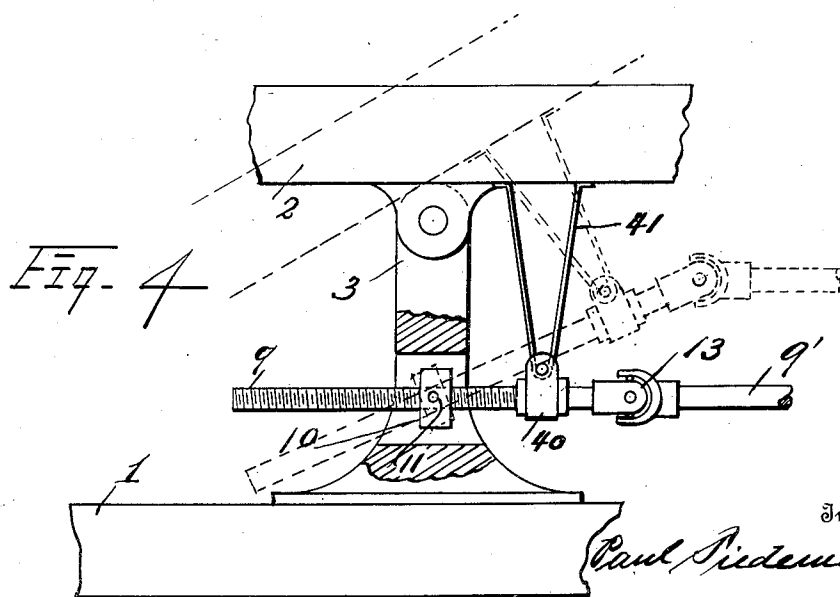
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Inventor

*Paul Tiedemann*

*Wm. M. Monroe*

Attorney

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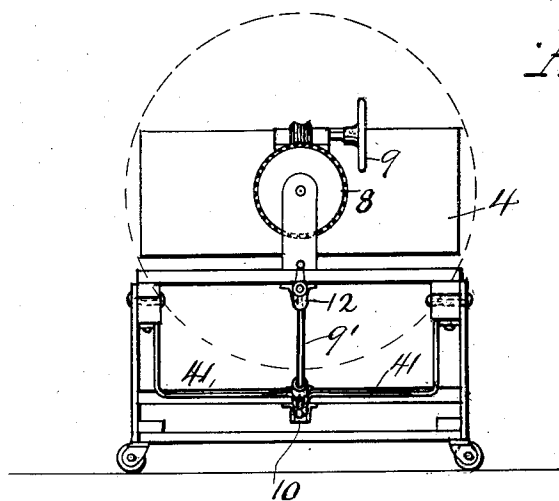
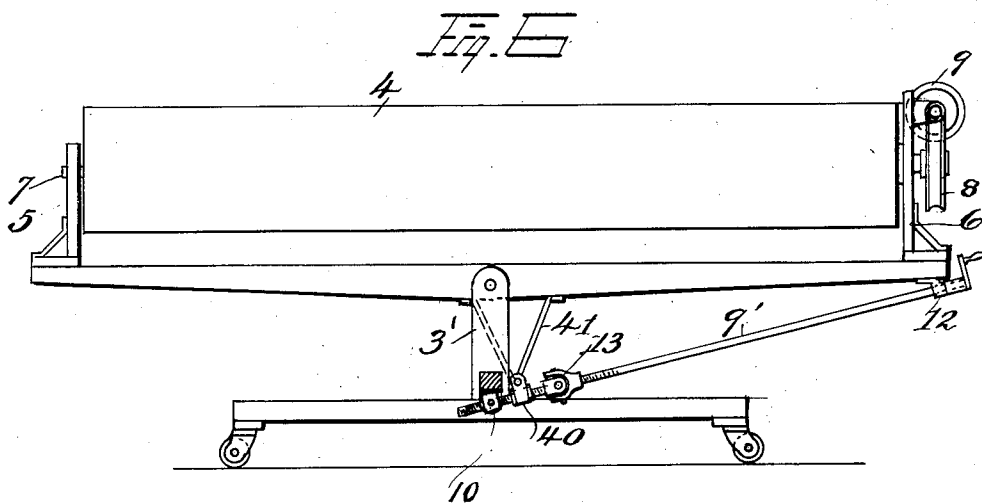
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P. TIEDEMANN

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3 Sheets-Sheet 3



Inventor

Paul Tiedemann

by

Wm. M. Monroe

Attorney

By

## UNITED STATES PATENT OFFICE.

PAUL TIEDEMANN, OF BROOKLYN TOWNSHIP, CUYAHOGA COUNTY, OHIO.

## ADJUSTABLE COT.

Application filed February 9, 1923. Serial No. 618,036.

The objects of the invention are to provide an improved method of construction for a folding cot, in which the patient can be placed in a reclining position, or in a sitting or partially inclined position, or turned to rest upon either side, to permit the patient to change his position when fatigued, or, when necessary, in a completely reversed position, when the patient is compelled to lie upon his stomach, and in intermediate positions.

The invention includes a folding bed, a support therefor, and manually operated means for revolving the bed, and for tilting it upon its supports, which can be readily operated by the attendant, nurse, or by any one, thus adapting the device to universal use in the hospital or house as a cot or as a reclining chair or lounge, as the circumstances of the case may require.

The invention is hereinafter more fully described, illustrated in the accompanying drawings, and specifically pointed out in the claims.

In the accompanying drawings, Fig. 1 is a transverse section of the device; Fig. 2 is a longitudinal section thereof; and Fig. 3 is a side elevation, showing the device in the reversed position, and showing a hammock attached to the supporting frame, upon which the patient will lie when the bed is revolved, Fig. 4 is an enlarged view of the tilting mechanism shown in Figs. 2 and 3.

Fig. 5 is an end elevation showing a modified form in which side supports are employed in lieu of a central support. Fig. 6 is a side elevation thereof.

In these views, 1 represents a portable base; 2 is a longitudinal bar, pivoted upon a standard, 3, upon this base. A rectangular frame, 4, is pivotally supported at each end at 7, 7, upon standards, 5, 6, mounted upon the bar at each end thereof.

This frame can be entirely revolved upon the shafts, 7, 7, by means of a worm wheel, 8, and worm, 9, and hand wheel 9<sup>2</sup> or placed at any angle to the horizontal desired. It can also be tilted to elevate or lower the head of the patient, by tilting the supporting bar.

This may be accomplished by means of the screw-threaded rod, 9, operating in a nut, 10, pivoted at 11, in the standard, 3. The screw threaded rod 9 is connected with an operating rod 9' by means of a universal

joint, 13, so as to operate freely. The outer end is supported in a brace at 12.

In this manner, the device is capable of being turned to any desired angle.

A swinging support 40 for the outer end of the screw 9 is pivoted on a depending bracket 41. The amount of movement of the swinging support is slight, as shown in dotted lines in Fig. 4. This support swings freely on the bracket 41 to permit the screw to rise to the inclined position shown in dotted lines in Fig. 4, and the screw rod revolves freely in the support 40.

The bed is formed of a sectional platform, composed of four portions, and a mattress lying thereupon.

The central portion of the platform comprises a rigid transverse bar, 15, which connects the sides of the frame, 4. To this transverse bar, the body and head supporting portion, 16 is hinged at 17 at one side, and to the other side the portions 28 and 29 which support the thighs and calves of the legs are hinged at 18.

These leg portions are also hinged together at 19, thus making the parts foldable to place the body and lower extremities in any angular relation to each other, as shown in dotted lines, with the knees bent, or with the feet elevated and extended, as may be desired.

The bed is hung at each end upon swinging bails, 20 and 21. The bail, 20, at the head of the bed is pivoted at its ends, at 22, in the sides of the frame, and can be swung to elevate the body to any angle desired. The bail 20 is shown in dotted lines, in Fig. 2, completely reversed in position so as to rest against the bottom of the bed 16 and supports the bed in an inclined position, whereas in solid lines the bed is seen to rest in the loop 20. Notches, 23, 23 in the platform, receive the bail 20 and retain it in the selected position.

The bail 21 is pivoted at its ends at 24 in the sides of the frame, and at its lower end is pivoted to the outer member of the platform. As this portion of the platform is folded, it is retained in position by means of the bar, 25, to which the loop 21 is pivoted, which slides longitudinally of the platform in a retaining guide loop, 26, and a set screw, 27.

This sliding bar serves also as a support

upon which the lower portions 28 and 29 of the bed rest.

In Figs. 5 and 6, the device is shown lowered in a more compact form, and side supports 3' take the place of the central support 3.

This enables the bed to swing between them and does not require the body of the patient to be lifted so high.

10 In this device the base is rectangular instead of H shaped.

When it is desired to lay a patient face downward, a canvas hammock, 31, is attached by straps, 32, or other suitable attaching means, to the frame, and the frame is reversed as shown in Fig. 3. At this time, the body portion 16 of the platform is folded back, so as not to suffocate the patient.

20 Having described the invention, what I claim as new, and desire to secure by Letters Patent, is:

1. In a device of the character described, a revolvable frame, a sectional foldable platform therein, the sections thereof being 25 hinged together, one portion of said platform comprising a transverse bar therein connecting the sides of said frame, bails pivoted at their ends in said frame for supporting the extremities of said platform, spaced engaging means on the lower side of one section of the platform for the adjacent bail, and a horizontal sliding support for the hinged sec-

tion at the opposite end of said platform, and a guide therefor upon said transverse bars.

2. In a device of the character described, a 35 revolvable frame, a sectional foldable platform therein, the sections thereof being hinged together, one portion of said platform comprising a transverse bar therein 40 connecting the sides of said frame, bails pivoted at their ends in said frame for supporting the extremities of said platform, spaced engaging means on one section of the platform for the adjacent bail, and a horizontal 45 sliding support for the hinged section at the opposite end of said platform, and a guide therefor upon said rigid section, and a securing means for said sliding support.

3. In a device of the character described, 50 a standard, a frame tiltable on said standard, a nut pivoted in said standard, a screw threaded rod passing through said nut, a swinging support for the outer end of said screw threaded rod, a bracket on said frame 55 in which said swinging support is pivoted, an operating rod, an outer bearing therefor on said frame, and a universal connection between said screw threaded rod and said operating rod.

60 In testimony whereof, I hereunto set my hand this 26<sup>th</sup> day of December 1922.

PAUL TIEDEMANN.