No. 869,772. PATENTED OCT. 29, 1907.

C. H. CODERRE.

BED.

APPLICATION FILED SEPT. 17, 1906.

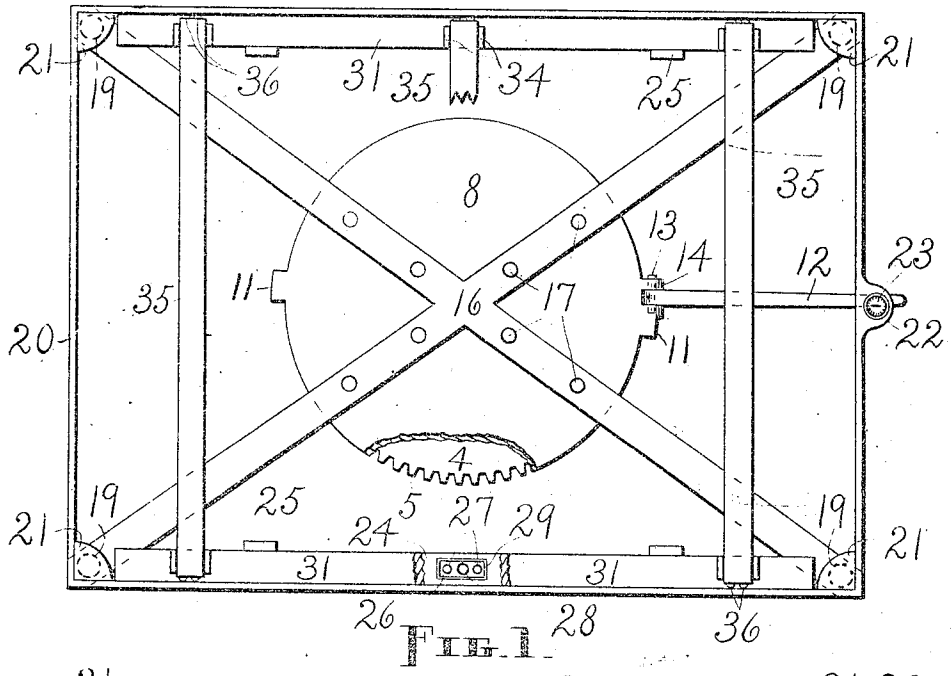


FIG. 1.

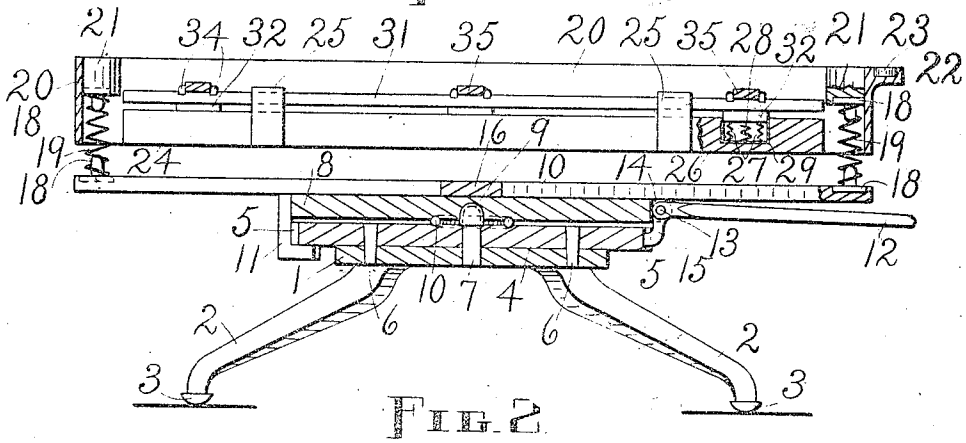


FIG. 2.

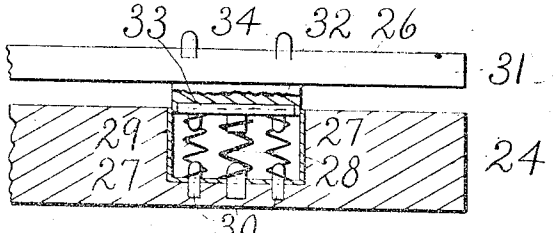


FIG. 3.

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BED.

No. 869,772. Specification of Letters Patent. Patented Oct. 29, 1907.

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To all whom it may concern:

Be it known that I, CHARLES H. CODERRE, a citizen of the United States of America, residing at Holyoke, in the county of Hampden and State of Massachusetts, have invented a new and useful Bed, of which the following is a specification.

My invention relates to improvements in beds, and consists of a rotatable spring-supported frame mounted on a pedestal and provided with spring-supported side-rails, together with certain auxiliary and subsidiary parts, all as hereinafter set forth.

The objects of my invention are, first, to produce an easy, comfortable and comparatively inexpensive bed; second, to provide a bed with which no spring-mattress is required; third, to furnish locking and adjusting means for such a bed, and, fourth, to provide a simple, convenient, practicable and efficient bed which embodies the requisite advantages pertaining to a bed of the class above indicated. I attain these objects by the means illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of my bed, certain parts being broken away to disclose hidden members; Fig. 2, a central longitudinal vertical section of said bed, certain parts being broken out of members which show in elevation, to better illustrate the construction, and, Fig. 3, an enlarged sectional detail of one of the spring-supporting appliances for the side-rails.

Similar figures refer to similar parts throughout the several views.

Referring to the drawings, which illustrate a practical embodiment of my invention, although it is clearly apparent that various changes in the shape, size, number and arrangement of some of the parts and even in minor points of construction may be made without departing from the nature of said invention, it will be observed that I first provide a pedestal 1 of suitable form. The legs 2 of the pedestal, of which there should be four (two only showing in Fig. 2), preferably rest upon glass casters or glass feet 3. A disk 4, having peripheral teeth 5, is fastened on top of the pedestal 1 by means of wooden pins 6 or otherwise. A central pin 7 projects above the top of the disk 4 to serve as a pivot for a platform 8, the projecting portion of said pin or pivot being covered with a glass cap 9. In adjacent faces of the disk 4 and platform 8 are ball-races for glass bearing-balls 10 upon which said platform rests directly and may be freely revolved about its pivot 7.

To steady the platform 8 and the superimposed members presently to be described, said platform is provided with two or more lugs 11 which extend downward from the edge of the platform, past the serrated edge of the disk 4 and then turn inward to engage the underside of said disk.

As a means of locking, releasing and rotating the platform 8 and supported parts, I provide an arm 12 pivotally connected with said platform at some convenient point, as at 13 to an ear 14 on the periphery of the platform and to the upper part of one of the lugs 11 which is adjacent to said ear, and provided with a depending dog 15 adapted to engage and release the teeth 5 on the disk 4. When the arm 12 is down in its normal position with the nose of the dog 15 between two of the teeth 5 the platform is locked by said dog to the disk 4 and prevented from rotating thereon, but by simply raising said arm sufficiently to disengage the dog from the teeth and using the arm as a handle the platform can be easily rotated as much or little as desired and then relocked by relasing the arm and taking care that the dog again interlocks with the teeth. This arrangement for releasing, revolving and confining the platform is particularly desirable when it is desired to position the bed due north and south, regardless of the way in which the pedestal 1 happens to stand. It is believed to be advantageous to have any bed placed with its foot to the north and its head to the south, and especially so for a bed of this description.

An X-support 16 is fastened by pins 17 or otherwise to the top of the platform 8, and has at each end a glass receiver 18 for the base of a spiral spring 19. The four springs 19, at the ends of the X-support 16, afford a yielding support for a rectangular frame 20 which has corner pieces 21 provided with glass receivers 18 to rest on said springs. At one end or what may properly be termed the foot of the frame 20 is a bracket 22 for a compass 23, by the aid of which latter the bed can be properly adjusted relative to the points of compass.

Secured firmly on the inside of each side piece of the frame 20 at the bottom, is a ledge 24 provided with one or more guides 25 and having therein a plurality of pockets 26 for springs. The guides 25 rise from the inside faces of the ledges 24 above the tops thereof. In each pocket 26 I prefer to place two spiral springs 27 at the ends and a third spiral spring 28 in the middle, this middle spring being stronger but shorter than the others. Each pocket 26 may have a lining 29 of rubber or other suitable material, and glass keepers 30 in the bottom for the springs 27 and 28. Side rails 31—31 are supported by the springs 27 and, when an unusual weight is placed upon the bed, by the auxiliary springs 28 in the ledges 24—24, said rails being free to play up and down between the guides 25 and the side pieces of the frame 20. The side rails 31 do not rest directly upon the springs below, but have bearing blocks 32, on their under sides, adapted to enter the pockets 26 and so assist in guiding said rails in their movement and provided with glass receivers, one of which is shown at 33 in Fig. 3, for said springs. One of these receivers 33 may be substituted for the keepers 30 in the bottom of each pocket 26, if desired.

Short glass ribs 34 are inserted in the side rails 31 at the proper distances apart to serve as guides for the

ends of as many slats 35 as may be required. Glass pins 36, having their outer projecting ends rounded, may be inserted in the ends of the slats 35 to come between such ends and the side pieces of the frame 20.

An ordinary filled mattress (not shown) is placed directly on the slats 35, no spring mattress being required since the springs 19 and 27 afford sufficient resiliency, aided by the auxiliary springs 28 in the case of an unusually heavy occupant whose weight forces the receivers 33, under the side rails, down onto said auxiliary springs.

It is to be understood that the members herein referred to as being of glass may be made of any other materi that will suit my purpose. Usually the springs will be the only metal used in the construction of the bed, the other members being made of wood and of such other materials as are herein mentioned. The wooden parts are joined together, where necessary, with wooden non-metallic pins.

Having now described my invention, what I claim and desire to secure, by Letters Patent, is—

1. The combination, in a bed, of a suitable pedestal provided with a disk, a rotary platform pivotally mounted on said disk, an X-support fast on said platform, a frame having corner pieces, vertical supporting springs for said frame between said corner pieces and the ends of said X-support, and means to adjust the platform and the members carried thereby relative to the points of compass.

2. The combination, in a bed, of a suitable pedestal provided with a fixed serrated disk, a rotary platform pivotally mounted on said disk, and a vertically-movable arm pivoted to said platform and having a dog normally held in engagement with the disk serrations by the weight of said arm and adapted to disengage the serrations when the arm is raised.

3. The combination, in a bed, of a suitable pedestal provided with a disk, a rotary platform mounted on said disk, an X-support fast on said platform, a frame provided with corner pieces and ledges, vertical supporting springs for said frame between said corner pieces and the ends of said X-support, springs carried by said ledges, and side rails supported on said last-mentioned springs.

4. The combination, in a bed, of a suitable pedestal provided with a disk, a rotary platform mounted on said disk, an X-support fast on said platform, a frame provided with corner pieces and ledges, vertical supporting springs for said frame between said corner pieces and the ends of said X-support, springs carried by said ledges, guides rising from the ledges, and side rails supported on said last-mentioned springs and arranged to play up and down between the sides of the frame and said guides.

5. The combination, in a bed, of a rotatable support and central supporting means therefor, vertical springs on the ends of said rotatable support, and a frame having corner pieces mounted on said springs said corner pieces being above the bottom edge of said frame.

6. The combination, in a bed, of a rotatable supporting member carrying vertical springs at its ends, a frame provided with corner pieces mounted on said springs and having ledges with pockets therein, such corner pieces being above the bottom edge of said frame, receivers between the ends of said supporting member and said springs and between said corner pieces and said springs adapted to afford lateral support for the springs, springs carried by said ledges in said pockets, side rails supported by said last-mentioned springs, and receivers on said rails above such springs adapted to afford lateral support for the latter.

7. The combination, in a bed, with a suitably supported frame provided with fixed ledges, springs carried by said ledges, and guides on the ledges, of side rails resting on said springs and adapted to play up and down between said guides and the sides of said frame.

8. The combination, in a bed, with a rotatable support carrying vertical springs at the ends, a frame provided with corner pieces adapted to rest on said springs and having fixed ledges provided with a plurality of series of springs, the springs in a series being of different lengths and arranged side by side, of side rails supported normally by the longer springs of the series and received onto the shorter springs of the series when forced below a given plane.

9. The combination, in a bed, with a rotatable support carrying vertical springs at the ends, a frame provided with corner pieces adapted to rest on said springs and having fixed ledges provided with a plurality of series of springs, the springs in a series possessing different degrees of resistance and being arranged side by side, of side rails supported normally by the longer springs of the series and received onto the shorter springs of the series when forced below a given plane.

10. The combination, in a bed, with a support carrying vertical springs at the ends, a frame provided with corner pieces adapted to rest on said springs and having ledges provided with a plurality of series of springs, the springs in a series being of different lengths and possessing different degrees of resistance, of side rails supported normally by the longer springs of the series and received onto the shorter springs of the series when forced below a certain point.

11. The combination, in a bed, with a support carrying vertical springs at its ends, a frame provided with corner pieces adapted to rest on said springs and with ledges having pockets therein, of a series of three springs in each of said pockets, one of such springs being characteristically different from the other two.

12. The combination, in a bed, with a suitably supported frame provided with fixed ledges having pockets therein, and springs in said pockets, of side rails provided with bearing blocks adapted to enter the pockets and rest on said springs, and slats supported by said side rails.

13. The combination, in a bed, of a suitable pedestal provided with a disk, a rotary platform mounted on said disk, an X-support fast on said platform, a frame provided with corner pieces and ledges, vertical supporting springs for said frame between said corner pieces and the ends of said X-support, springs carried by said ledges, guides rising from the ledges, side rails supported on said last-mentioned springs and adapted to play up and down between the sides of the frame and said guides, ribs on the side rails, and slats resting on the side rails between said ribs.

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