R. SHEA.

CRADLE ROCKER.

APPLICATION FILED JAN. 16, 1922.

1,420,582.

Patented June 20, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

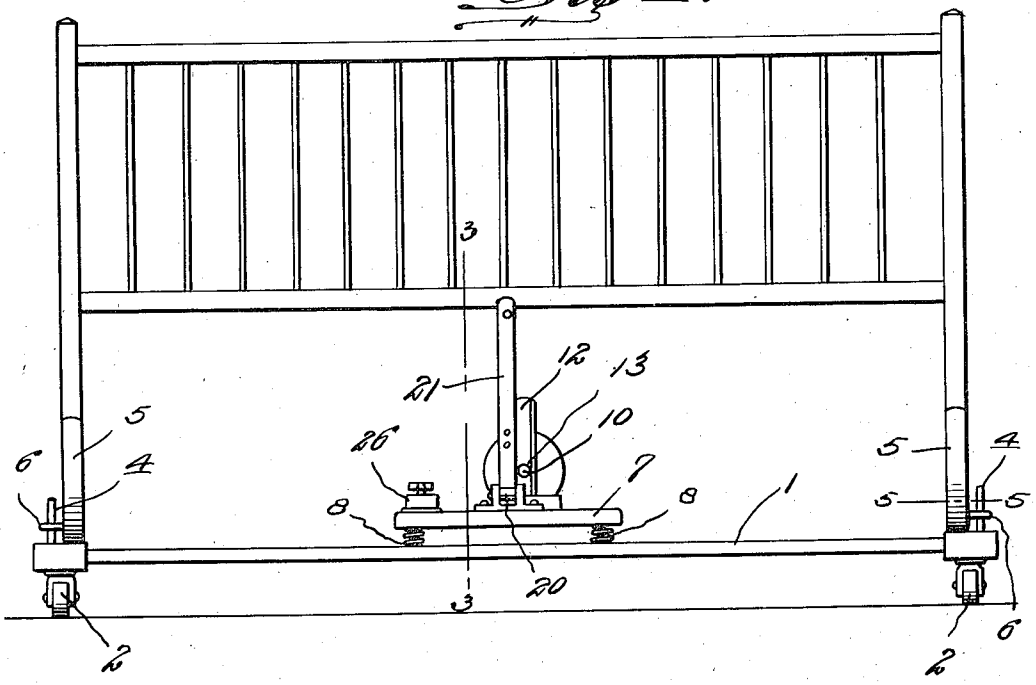
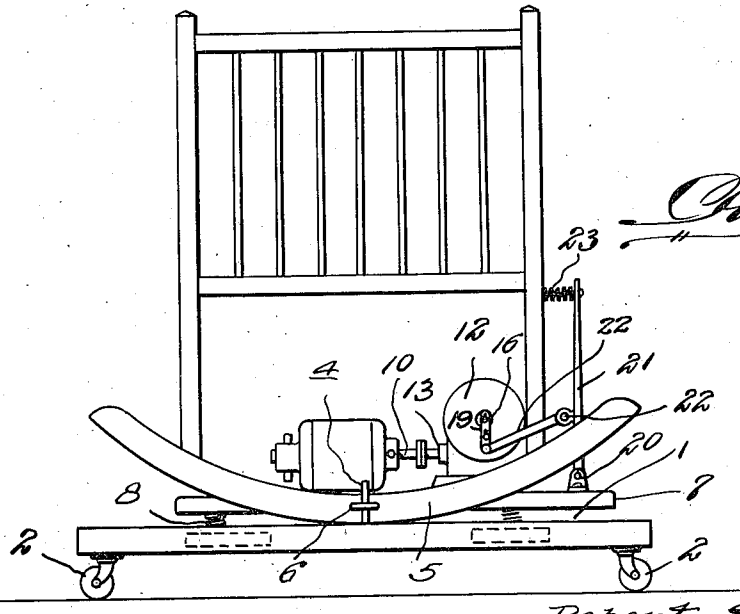


Fig. 2.



Witnesses:

Robert Shea,
INVENTOR

BY Victor J. Evans
ATTORNEY

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2 SHEETS—SHEET 2.

Fig. 3.

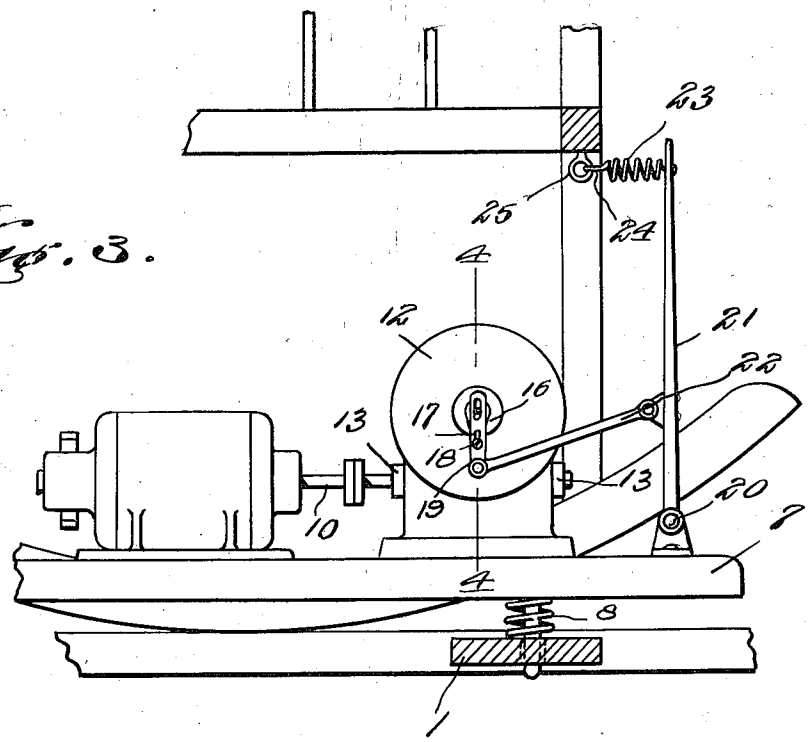


Fig. 4.

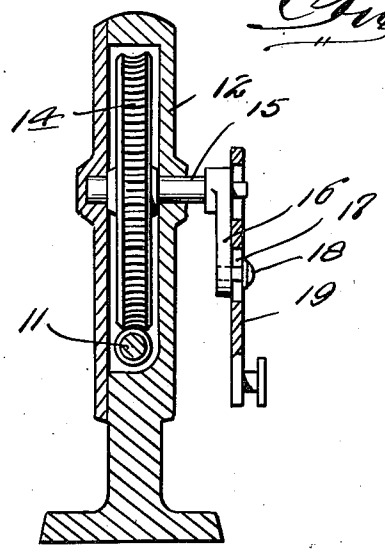
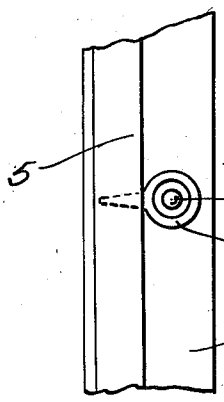


Fig. 5



WITNESSES:

Robert Shea,
INVENTOR

BY Victor J. Evans.
ATTORNEY

UNITED STATES PATENT OFFICE.

ROBERT SHEA, OF MARTELL, CALIFORNIA.

CRADLE ROCKER.

1,420,582. Specification of Letters Patent. Patented June 20, 1922.

Application filed January 16, 1922. Serial No. 529,806.

To all whom it may concern:

Be it known that I, ROBERT SHEA, a citizen of the United States, residing at Martell, in the county of Amador and State of California, have invented new and useful Improvements in Cradle Rockers, of which the following is a specification.

This invention has reference to cradles, and is particularly directed to mechanical means for imparting a rocking motion to a cradle.

The invention further consists in the combination with a cradle provided with rockers, of motor operated means for imparting a continuous rocking movement to the cradle.

The invention further consists in the provision of a suitable wheeled platform on which the rockers of a cradle are positioned but held from movement in any, except a rocking direction, said platform also supporting thereon a motor whose shaft actuates the speed reducing means which includes a revoluble crank to which is adjustably secured a pitman that in turn is pivotally connected with a rocker arm pivotally supported from the platform and having a spring connection with the cradle, and whereby the turning of the crank will impart an oscillatory movement to the rocker arm and a like movement to the cradle.

A further object is to produce a mechanism for imparting a rocking motion to a cradle in which the cradle is removably supported on a platform, the said platform being provided with a cushioned bed plate on which the motor and speed reducing means associated therewith are secured, said bed plate also having pivoted thereon a resilient rocker arm to whose end there is attached a spring which is removably secured to the cradle, the motor actuated means being of a nature to impart a rocking movement to the rocker arm which likewise imparts a similar movement to the cradle to cause the same to be rocked in a gentle manner, the cushioned bed plate upon which the operating mechanism is attached yieldably supporting the latter and materially silencing the noise which is created in the operation of such mechanism.

The construction and operation of the improvement will be fully described herein in connection with the drawings which accompany and form part of this specification, and the novel features of the improvement will be definitely set forth in the claim.

In the drawings:—

Figure 1 is a side elevation of the improvement.

Figure 2 is an end view thereof.

Figure 3 is a sectional view on the line 3—3 of Figure 2.

Figure 4 is a sectional view on the line 4—4 of Figure 3.

Figure 5 is a sectional view on the line 5—5 of Figure 1.

In carrying out my invention, I make use of a platform 1 which has rollers 2 depending from its corners and on which the platform is supported.

On the platform there is a cradle provided with the usual rockers. On the end bars of the platform, at the center thereof there are screwed therein headless bolts 4. In the sides of the rockers 5 of the cradle 3 at the center thereof there are screwed screw eyes 6, the screw eyes receiving therethrough the threaded bolts or pins 4. In this manner, it will be seen that the cradle is removably secured on the platform and will be held against movement in any except a rocking direction.

On the platform 1, at the center thereof there is a bed plate 7. As disclosed by the drawings, the platform preferably comprises the end members which are provided with rollers 2 and with spaced longitudinal members that are secured to the end members, and it is over these longitudinal members that the bed plate 7 is arranged. The bed plate is supported on yieldable means preferably in the nature of springs 8, four of such springs being employed in the showing of the drawings, and one of each being disposed adjacent to the corners of the bed plate 7.

Bolted on the yieldably supported bed plate 7 there is a motor. The motor is preferably electrically driven. The shaft 10 of the motor, adjacent to one end thereof is provided with a screw 11 and this end of the shaft is received in a housing 12. The shaft 10 is, of course, journaled in suitable bearings in the housing. The housing 12 is bolted or otherwise secured on the bed plate 7, and the shaft 10 has heads or enlargements 13 which contact with the outer face of the housing. In the housing 12 there is a worm wheel 14 which is in mesh with the

screw 11 on the shaft 10. The shaft 15 for the worm wheel 14 finds bearings in the side walls of the housing, and one end of the shaft is either formed with or has secured thereto a crank 16. The worm wheel is comparatively large and the shaft 15 therefor will be turned at a comparatively low ratio of speed with respect to the speed of the shaft 10.

The crank 16 has a pin on which is an adjustable element 18. The pin passes through one of a plurality of elongated slots 17 in a link, the binding element 18 being arranged on the pin and contacting the outer face of the link for holding the said link adjusted on the crank.

Pivotally secured on the platform, as at 20 is a rocker arm 21. A pitman 22 is pivotally connected to the rocker arm 21 and to the link 19. The arm 21 is upwardly directed and is preferably in the nature of a flat spring member. The arm carries at its outer end a coiled spring 23, the free end of the spring being hooked, as at 24 to engage in a screw eye 25 secured in the bottom of the body of the cradle.

Because of the cushioned base, comprising the spring supported bed plate 7, noise incident to the operation of a non-yieldably supported motor will be materially reduced as will the actuation of the speed reducing mechanism which is operated by the motor. The speed reducing means causes the rocker arm to be swung in a slow steady manner, so that an easy and silent rocking of the cradle is accomplished. The rocking means may be readily disconnected from the cradle, as will be apparent, and the cradle may be then removed from the platform when the rocking means is not desired for use. When arranged on the platform, the cradle can be rolled from place to place so that the same can be conveniently positioned within hearing of the mother or nurse of the infant arranged in the cradle. The improvement will relieve the mother of constantly holding the infant and permit her accomplishing various duties which the care of the infant would otherwise prevent. The motor is controlled by a suitable switch 26 conveniently positioned on the platform or bed plate, so that the rocking of the cradle may be halted when desired.

Having described the invention, I claim:—

The combination with a cradle and a platform on which the cradle rests, of a means for rocking the cradle, comprising a crank shaft and means for imparting a rotary motion thereto, a link adjustably secured on the crank shaft, a resilient rocker arm disposed away from the link, a pitman connecting the rocker arm and link, and a coiled spring on the rocker arm connected to the cradle.

In testimony whereof I affix my signature.

ROBERT SHEA.