April 27, 1926. 1,582,510

S. CIPRESSO

CRADLE

Filed May 4, 1925

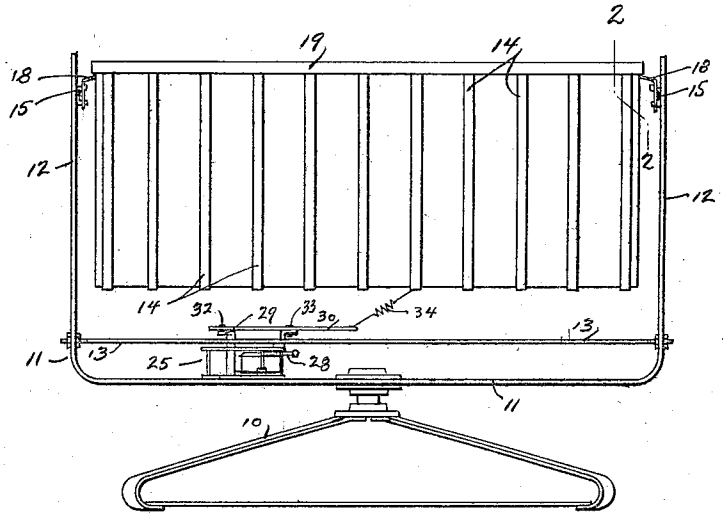


Fig. 1.

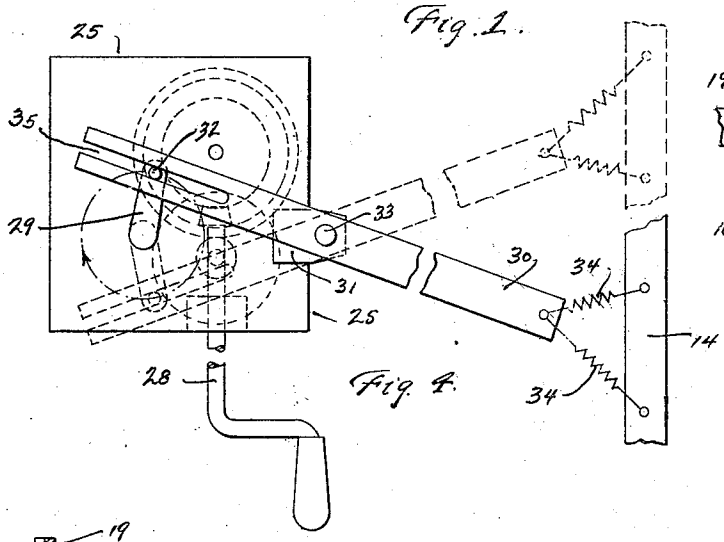


Fig. 4.

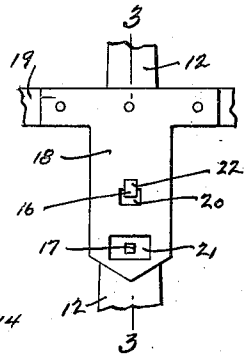


Fig. 2.

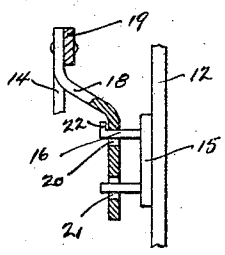


Fig. 3

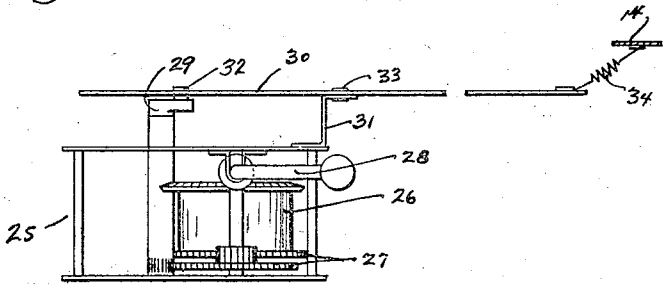


Fig. 5.

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UNITED STATES PATENT OFFICE.

SAMUEL CIPRESSO, OF BUFFALO, NEW YORK.

CRADLE.

Application filed May 4, 1925. Serial No. 27,755.

To all whom it may concern:

Be it known that I, SAMUEL CIPRESSO, a citizen of the United States of America, and a resident of the city of Buffalo, county of Erie, and State of New York, have invented certain new and useful Improvements in Cradles, of which the following is a full, clear, and exact description.

My invention relates in general to cradles and in particular to motor-actuated cradles.

An object of my device has been the provision of a motor-driven, oscillating cradle which shall be simple in construction and inexpensive to manufacture.

Another object has been to provide a device of this nature in which the shock of starting and stopping swinging movement of the cradle shall be absorbed by the use of cushioning means.

The above objects and advantages have been accomplished by the device shown in the accompanying drawings, of which:

Fig. 1 is a side elevation of my complete device.

Fig. 2 is an enlarged, fragmentary, sectional view taken on line 2—2 of Fig. 1, showing the cradle supporting mechanism.

Fig. 3 is a fragmentary, side, sectional elevation thereof, taken on line 3—3 of Fig. 2.

Fig. 4 is an enlarged, plan view of the actuating motor.

Fig. 5 is a side elevation thereof.

My device comprises a base 10 which may, if desired, be provided with casters. Carried at the top of the base, preferably in a rotatable manner, is a cradle supporting yoke 11. The side vertical members 12 of the yoke are tied together near the bottom of the yoke by means of a tie rod 13. The cradle 14 is of any suitable design and is pivotally supported in the yoke 11 by the means shown enlarged in Figs. 2 and 3, which comprises a bracket 15 having a pivot pin 16 and a stop pin 17. An arm 18 is carried by the outer band 19 of the cradle at each side thereof and its lower end is offset, as shown in Fig. 3, where it is provided with an aperture 20 for engagement with the pivot pin 16. A stop aperture 21 is also formed in the lower end of the arm 18 which is disposed over the stop pin 17. The pivot pin 16 is provided with a hook 22 at its forward end, whereby the weight of the cradle 14 will keep the arm 18 engaged with the pivot pin 16 and prevent its sliding off the end thereof. The stop aperture 21 is considerably larger than the stop pin 17, whereby the cradle will be permitted to swing through its predetermined course but will be stopped if the swinging gets beyond the predetermined amount.

Carried by the lower member of the supporting yoke 11 is the motor 25. This motor is shown enlarged in Figs. 4 and 5, and is of the usual spring type, provided with a spring 26, suitable gearing 27 and with a crank 28, whereby the spring may be wound. The motor is provided with an operating crank 29 which is suitably geared to the gearing 27 of the motor. An operating lever 30 is pivotally carried by a bracket 31, mounted on the motor, and this operating lever is provided at its rear end with a slot 35 with which the pin 32 of the crank 29 is engaged. As the crank 29 rotates, the pin 32 will slide back and forth in the slot and cause the operating lever to be oscillated about its pivot point 33 and moved to the extreme positions shown by the full and dotted lines in Fig. 4. The outer end of the operating lever 30 is connected to the bottom of the cradle 14 by means of springs 34. The springs diverging from their point of connection to the lever 30, whereby each spring will be alternately put under tension as the cradle is rocked back and forth by the oscillation of the operating lever.

Obviously some modifications of the details herein shown and described may be made without departing from the spirit of my invention or the scope of the appended claim, and I do not, therefore, wish to be limited to the exact embodiment herein shown and described, the form shown being merely a preferred embodiment thereof.

Having thus described my invention, what I claim is:

A motor driven cradle comprising a base, a cradle supporting yoke carried by the base and provided with pivot pins and stop pins, a cradle, an arm carried at each side of the cradle and formed with an aperture for engagement with the pivot pin at each side of the yoke, and each arm being also formed with a stop aperture engageable with the stop pin at each side of the yoke.

In testimony whereof, I have hereunto signed my name.

SAMUEL CIPRESSO.