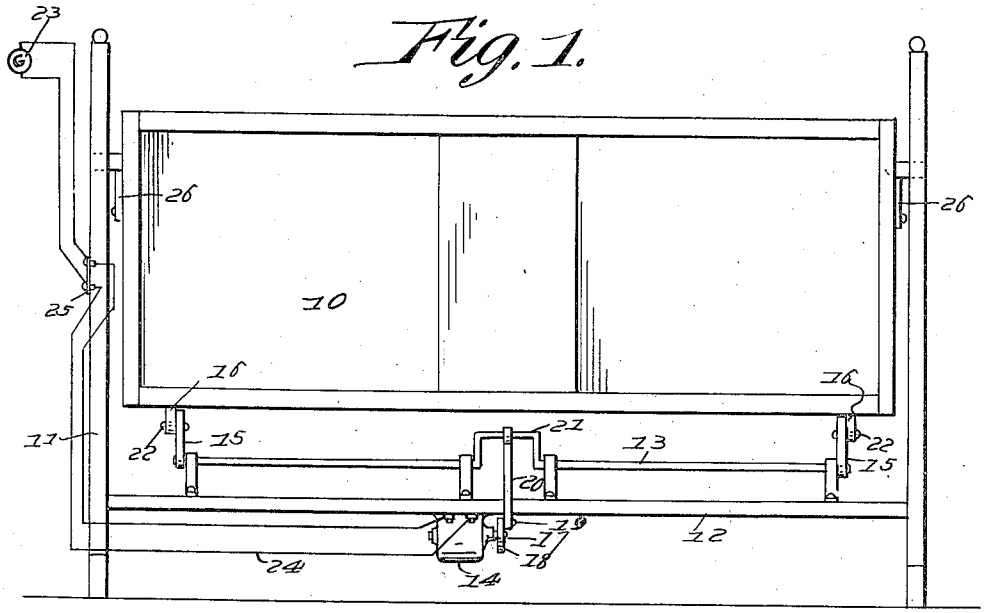
Dec. 19, 1922. 1,439,619.

J. E. DZIEDZIC.

MOTOR DRIVEN CRADLE.

FILED APR. 25, 1922. 2 SHEETS—SHEET 1.

Fig. 1.



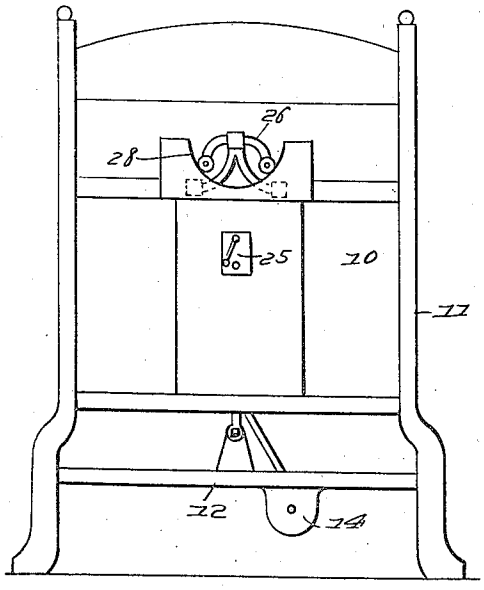


Fig. 2.

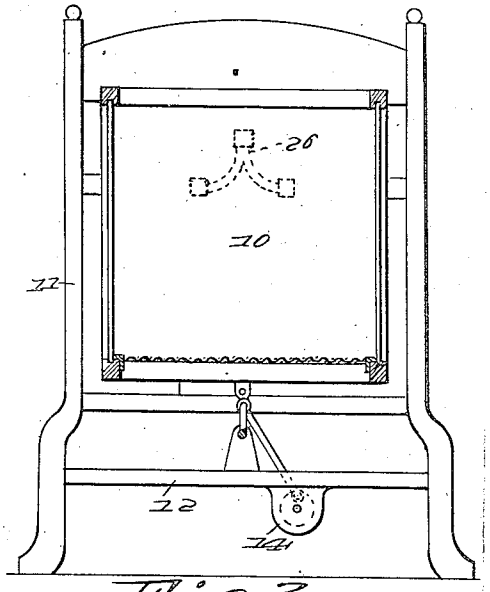


Fig. 3.

Inventor

J. E. Dziedzic,

By E. Thum & Talbert

Attorney

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J. E. DZIEDZIC.

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FILED APR. 25, 1922. 2 SHEETS—SHEET 2.

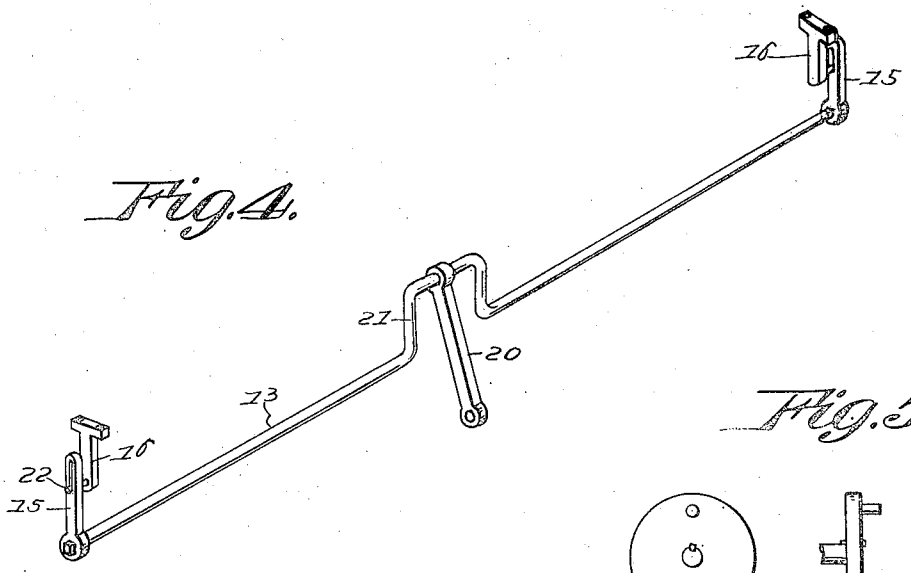

Fig. 4.

Fig. 5.

Fig. 6.

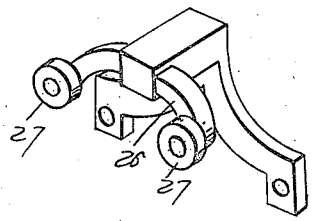

Fig. 7.

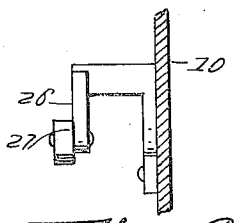

Fig. 8.

Inventor
J. E. Dziedzic,
By Johnson Talbert
Attorneys

Patented Dec. 19, 1922. 1,439,619

UNITED STATES PATENT OFFICE.

JOESEPH E. DZIEDZIC, OF DETROIT, MICHIGAN.

MOTOR-DRIVEN CRADLE.

Application filed April 25, 1922. Serial No. 556,480.

To all whom it may concern:

Be it known that JOESEPH E. DZIEDZIC, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, has invented new and useful Improvements in Motor-Driven Cradles, of which the following is a specification.

The object of the invention is to provide a simple and efficient construction of cradle operating mechanism adapted to be motor driven; and with this object in view the invention consists in a construction and combination of parts of which a preferred embodiment is shown in the accompanying drawings, wherein:—

Figure 1 is a side view of a mechanism embodying the invention applied in the operative position to a cradle.

Figure 2 is an end view of the same.

Figure 3 is a transverse sectional view thereof.

Figure 4 is a detail view of the rock shaft and connections.

Figures 5 and 6 are respectively edge and side views of the motor driven disk.

Figure 7 is a detail view of the cradle hanger.

Figure 8 is a side elevational view of the hanger, the connected portion of the head being shown in section.

The operating mechanism embodying the invention is shown in connection with a cradle 10 which is suspended for oscillatory movement in a supporting frame consisting of heads 11 connected by the longitudinal bars 12, and consists essentially of a rock shaft 13 actuable by means of a motor 14 of the electric type and having terminal crank arms 15 connected with brackets 16 depending from the cradle, said rock shaft being mounted upon the supporting frame.

In the construction illustrated the motor shaft 17 carries a driving disk 18 of which the wrist pin 19 is connected by a pitman 20 with an intermediate crank 21 of the rock shaft so that the rotary motion of the disk is converted into an oscillatory or rocking movement of the shaft 13 to cause a lateral vibration of the crank arms 15 which are pivotally connected by pins 22 with the depending brackets 16. The motor is supplied from a suitable source indicated at 23 by conductors 24 which pass through the switch mechanism 25 located on one of the heads of the frame.

Furthermore a preferred construction of hanger for the cradle embodies a cross head 26 having its arms provided with bearing rollers 27 operating in an arcuate track 28 supported by the head of the frame, but it is obvious that modifications of this construction may be adopted in practice to provide for the desired movement of the cradle proper.

Having described the invention, what is claimed as new and useful is:—

1. The combination with a cradle and a supporting frame for the same in which the cradle is mounted for swinging movement, of a rock shaft mounted upon the framework in longitudinal relation with the cradle and provided with terminal crank arms connected with brackets depending from the cradle, and means for actuating the rock shaft including a motor and connections between the shaft thereof and the rock shaft.

2. The combination with a cradle, of a supporting frame for the same, said frame embodying heads, arcuate tracks secured to said heads, cross heads mounted on the cradle and provided with spaced arms, rolls mounted on the extremities of said arms and operating in said arcuate tracks, and power driven means operatively connected with the cradle at the bottom for oscillating the same in the manner and for the purpose specified.

In testimony whereof he affixes his signature.

JOESEPH E. DZIEDZIC.