April 30, 1935. J. CHLUPSA 1,999,957

BABY CARRIAGE AND CRIB OSCILLATING MECHANISM

Filed May 1, 1933 3 Sheets-Sheet 1

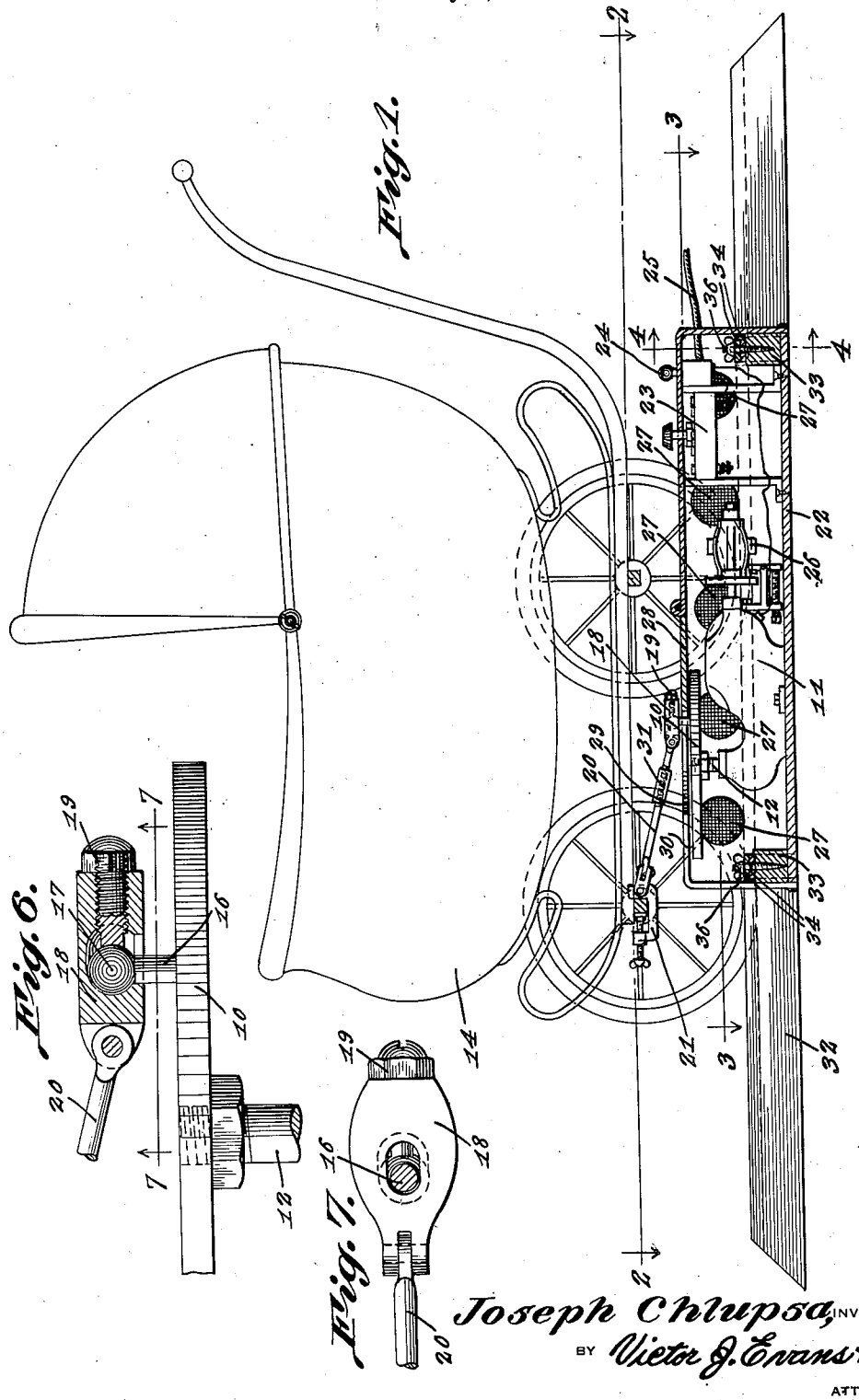


Fig. 1.

Fig. 6.

Fig. 7.

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BABY CARRIAGE AND CRIB OSCILLATING MECHANISM

Filed May 1, 1933 3 Sheets-Sheet 2

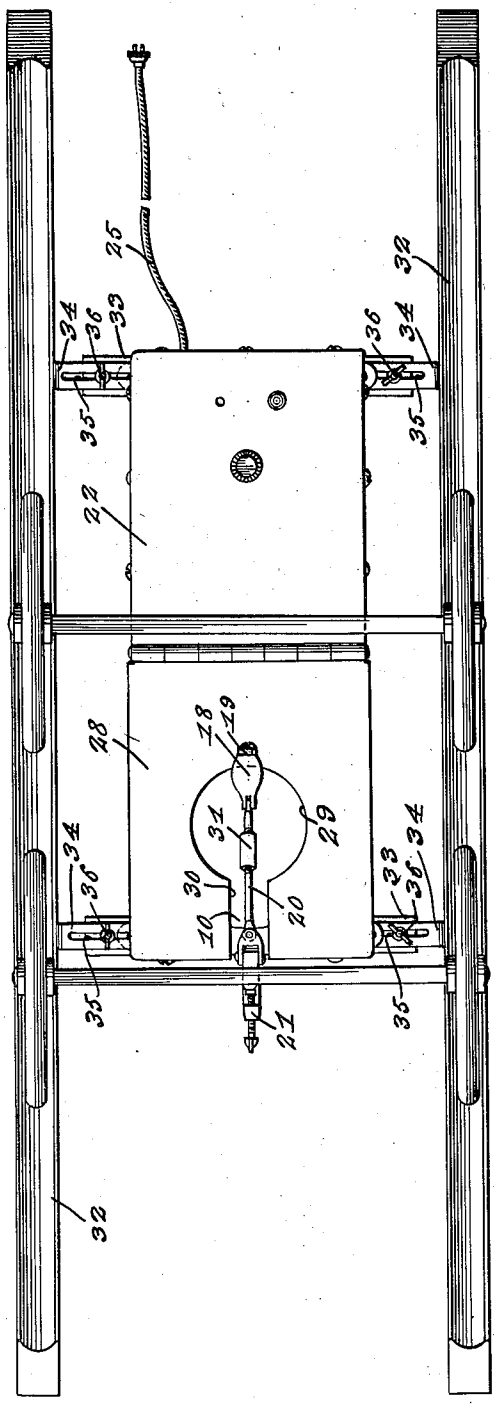


Fig. 2.

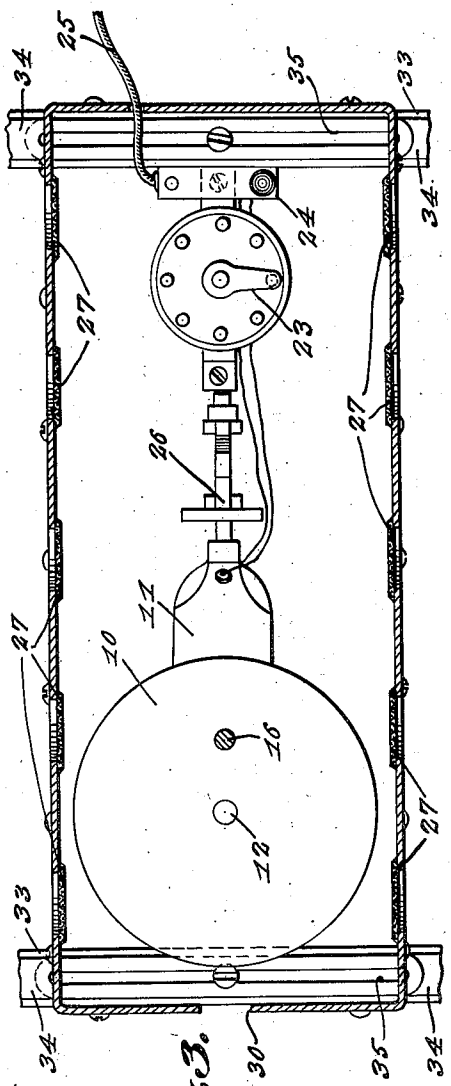


Fig. 3.

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BABY CARRIAGE AND CRIB OSCILLATING MECHANISM

Filed May 1, 1933 3 Sheets-Sheet 3

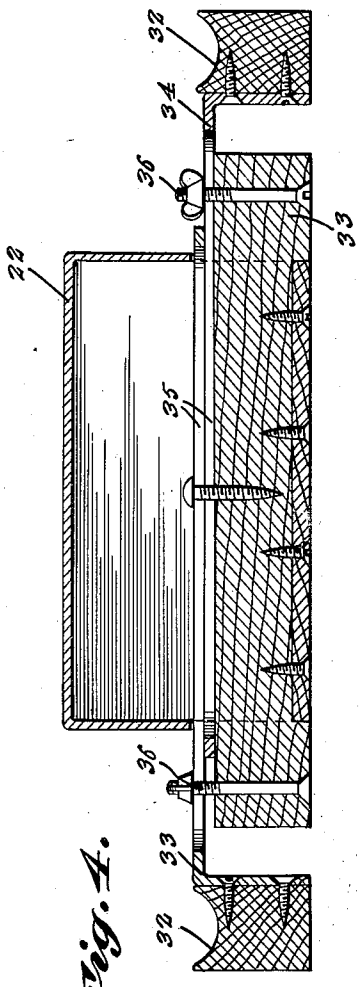


Fig. 4.

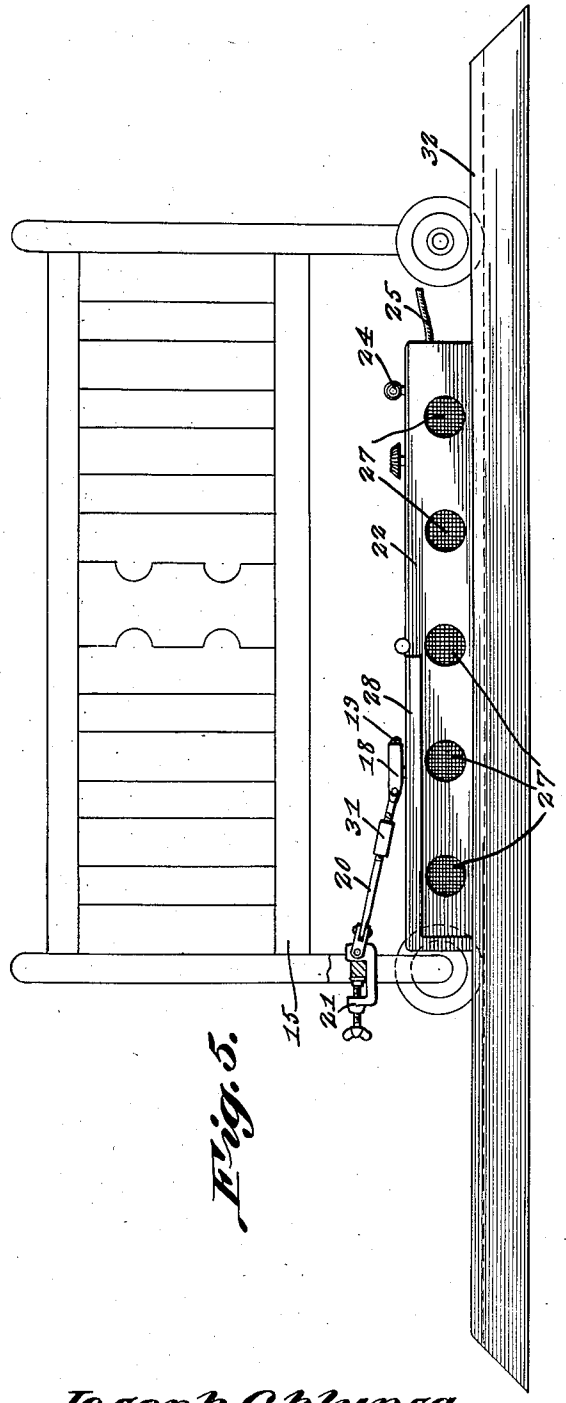


Fig. 5.

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UNITED STATES PATENT OFFICE

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BABY CARRIAGE AND CRIB OSCILLATING MECHANISM

Joseph Chlupsa, Astoria, N. Y.

Application May 1, 1933, Serial No. 668,896

1 Claim. (Cl. 180—1)

The object of the invention is to provide a mechanism on which the wheels of a baby carriage or crib may be mounted and the carriage or crib operatively connected with the mechanism to be oscillated by the latter when the mechanism is set in motion, so that there may be no necessity for attention on the part of an attendant in rocking the baby to sleep or amusing it with the customary carriage or crib movement; to provide a mechanism of the kind indicated which is laterally adjustable so that it may be readily accommodated to the tread of the carriage or the crib rollers; and generally to provide an oscillating device for the purpose indicated which is of simple form and susceptible of cheap manufacture.

With this object in view, the invention consists in a construction and combination of parts of which a preferred embodiment is illustrated in the accompanying drawings but to which embodiment the invention is not to be restricted. Continued use in practice may dictate certain changes or alterations and the right is claimed to make any which fall within the scope of the annexed claim.

In the drawings:

Figure 1 is a side elevational view, partly broken away, showing the invention applied in operative position in connection with a baby carriage.

Figures 2, 3 and 4 are sectional views on the planes indicated by the lines 2—2, 3—3 and 4—4 respectively of Figure 1.

Figure 5 is a view similar to Figure 1 but showing the invention operatively connected with a crib.

Figure 6 is a detail elevational view, partly in section, of the wrist pin disk.

Figure 7 is a sectional view on the plane indicated by the line 7—7 of Figure 6.

The invention comprises a table or disk 10 which is continuously rotated through the instrumentality of an electric motor 11 in whose case is mounted a gear reduction, so that the power shaft 12 will be disposed with its axis vertical and will be run at a comparatively slow angular speed. In order that the rotary movement of the disk may be translated into oscillating movement of a baby carriage 14, or a crib 15, whichever is used, the disk is provided with an eccentrically disposed wrist pin 16 formed with a spherical or globular head 17 receivable in a socket in a head 18, the latter being secured to the head of the wrist pin by means of the cupped screw 19 which is threaded into the head and whose cupped end bears superficially on the spherical or globular head of the wrist pin.

The head 18 has a pivotal connection with the connecting rod 20 and the latter has a swivel connection with the clamp 21 which may be secured to the axle of the carriage 14 or to a crossbar of the crib 15. It is obvious, that if the disk rotates, the carriage or crib will be moved back and forth by reason of the connection thus provided between the disk and the carriage consisting of the connecting rod and its associated parts. The motor 11 together with the disk are mounted in a casing or housing 22 in which is disposed a control resistance 23 and a control switch 24 to which the motor supply line 25 is led. The resistance 23 will provide for regulating the speed of the motor when the switch 24 is turned on.

A mechanical governor 26 is incorporated with the motor mechanism to maintain the speed of the motor constant in accordance with that secured by the regulation of the resistor 23.

The case 22 has the side walls thereof formed with openings covered with reticulated members 27, this to provide ventilation to the apparatus interior to the casing and at the same time to exclude the entrance of dust as far as possible.

A hingedly mounted cover 28 closes the case 22 at the top and in the region of the disk 10, this cover being provided with an opening 29 to provide a clearance space for the movement of the wrist pin 16. The cover 28 is further slotted, as indicated at 30, radially from the clearance opening 29 to provide a clearance slot for the connecting rod 20 in opening and closing the cover.

The connecting rod is made extensible by reason of a sleeve nut 31, this arrangement permitting a change of position of the crib or carriage being oscillated with respect to the housing. This adjustment for change of position is desirable so that the connected carriage or crib may be properly positioned to remain on the tracks 32 during oscillating, these tracks being a part of the invention and being connected with the cross rails 33 which support the housing. The means for connecting the tracks with the cross rails consist of angular brackets 34 formed with relatively long arms slotted, as indicated at 35, so that the tracks may be laterally shifted when the wing nuts of the clamping bolts 36 are loosened. This arrangement provides for lateral adjustment or spacing of the tracks 32 to suit the tread of the carriage or crib with which the device is to be connected. After securement of the proper spac-

ing of the rails, the tightening of the wing nuts maintains the adjustment.

It is obvious that when the connecting rod 20 is connected to a carriage or crib through the instrumentality of the clamp 21 and the motor 11 set in operation, the carriage or crib will be oscillated back and forth on the tracks by the rotary movement of the disk 10 secured through the rotation of the motor 11.

The invention having been described, what is claimed as new and useful is:

Mechanism for the purpose indicated comprising a case, a motor disposed in the case, a rotary disk disposed in the case and having its axis of rotation vertically disposed, operative connections between the motor and the disk to run the latter at an angular speed reduced below that of the motor, the disk having on its top face an eccentrically mounted wrist pin traversing a clearance opening in the top of the case, a connecting rod having a pivotal connection at one end with the wrist pin, and a clamp having a swivel connection with the remote end of the connecting rod, rails arranged on opposite sides of the case for receiving the wheels of a vehicle disposed in straddling relation to the case, angular bracket members connecting the rails with the case and having slots engaging bolts carried by the case to provide for lateral adjustment of the rails to accord with the tread of such vehicle, the clamp being removably attachable to a cross member of such vehicle.

JOSEPH CHLUPSA.