Feb. 12, 1924. 1,483,813

H. S. JACKSON

ROCKING MEANS FOR BABY CARRIAGES

Filed Aug. 12, 1922

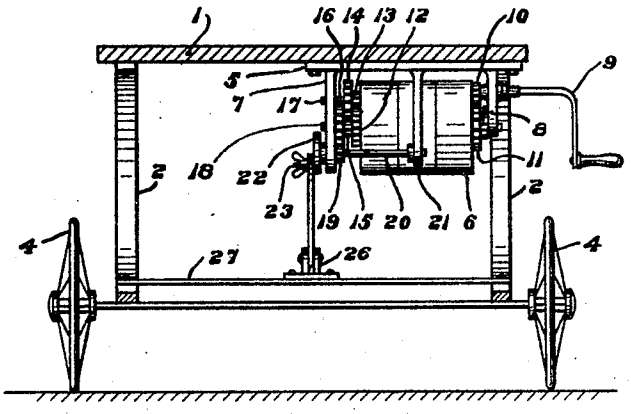


Fig. 1.

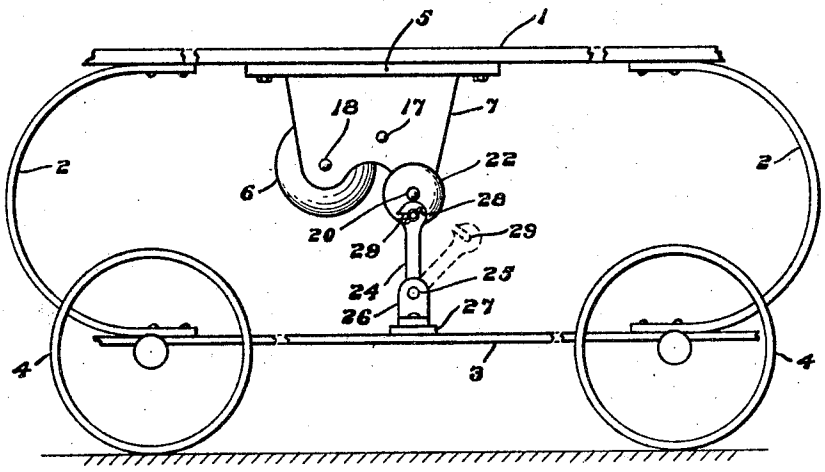


Fig. 2.

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Patented Feb. 12, 1924. 1,483,813

UNITED STATES PATENT OFFICE.

HARLIE SEREVA JACKSON, OF PHILADELPHIA, PENNSYLVANIA.

ROCKING MEANS FOR BABY CARRIAGES.

Application filed August 12, 1922. Serial No. 581,550.

To all whom it may concern:

Be it known that I, HARLIE SEREVA JACKSON, a citizen of the United States of America, residing at 913 So. 15th St., Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Rocking Means for Baby Carriages, of which the following is a specification.

This invention relates to automatic rocking means for baby carriages and more especially to means for such a purpose which may be mounted on the body and operate against the restraint of the body supporting springs to rock the carriage body up and down.

The object of my invention is to provide means in a baby carriage structure by which automatically when desired the carriage body may be synchronously rocked upwardly and downwardly independent of other movement travel of the carriage.

Referring to the drawings in which like numerals of reference indicate corresponding parts—

Fig. 1 is an end elevation partly in cross-section of a portion of the carriage body and understructure with my device operatively mounted thereon.

Fig. 2 is a longitudinal side elevation of the same.

Referring more particularly to the drawings 1 is a bottom of the carriage body supported on the resilient springs 2 which are carried on a framework 3 mounted on the running gear 4. Mounted below and on the body bottom 1 is a hanger or supporting frame 5 carrying a spring motor 6 between the arms of the standards 7 and 8 of the supporting frame 5. The motor 6 is provided with a crank handle 9 which actuates a pinion 10 meshing with a pinion 11 which actuates mechanism within the motor to wind up the driving spring therein. On the opposite side of the motor there is provided a train of gears or pinions 12, 13, 14, 15, and 16, which are mounted on stud shafts 17 and 18 carried between the motor 6 and the arm 7 of the supporting frame 5. This train of pinions is actuated by the spring of the motor, the pinion 12 drawing the pinion 13 and the pinions 14 and 15 meshing to impart this rotation to the pinion 16. This pinion 16 meshes with a pinion 19 fixedly mounted on a shaft 20 which is rotatably carried between the standard or arm 7 of the frame 5 and the standard or arm 21. On the outer end of this shaft 20 there is fixedly mounted a disc 22 provided with a crank pin or stud 23 which rotates with the shaft 20.

Detachably connected to the crank pin 23 on the disc 22 is a link 24 which at its lower end is hingedly connected on a pivot 25 carried in a bracket 26 which is carried on a transverse member or support 27 midway between the ends of and below the carriage body 1.

My device is carried to operate by winding up the spring of the motor 6 by the crank handle 9. The power of the motor there is applied to the pinions 12, 13, 14, 15 and 16 the latter, 16, meshing with the pinion 19. By this operation the pinion 19 is thereby rotated and the shaft 20 and disc 22, thereon likewise rotated. The crank pin 22 oscillates the link 24 which is secured to the crank pin 23 with its lower end pivoted in the bracket 26 which is secured to the cross member 27. By this operation the crank pin alternately moves the carriage body up and down against and with the normal action of the springs 2, thus producing a vertical rocking of the carriage body.

It will also be seen that when the motor is not to be used to rock said carriage the link 24 may be disconnected from the crank pin 23 by loosening the thumb nut 28 and withdrawing the link 24 therefrom by means of the slot 29. The carriage body is now free upon the resilient supporting springs 2, independent of the motor.

While I have shown and described one practical embodiment of my invention, it is obvious that various changes may be made, and the right is hereby reserved to make such changes therein as fairly fall within the scope of the appended claims.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:—

1. In a device of the class described, the combination of a baby carriage body, a running gear frame, a cross member secured thereto, a spring motor suspended from the underside of said carriage body, a disc geared to said motor, a crank pin disposed in said disc, a connecting rod pivotally mounted on said cross member, connecting with said crank pin, for movement of said carriage body upwardly and downwardly.

2. In a device of the class described,

the combination of a baby carriage body, a running gear frame, a cross member secured thereto, a spring motor suspended from the underside of said carriage body, a disc geared to said motor, a crank pin disposed in said disc, a connecting rod pivotally mounted on said cross member, a slot in the upper end of said connecting rod adapted to permit disconnection of said connecting rod from said crank pin as and for the purpose set forth.

3. In a device of the class described, the combination of a motor actuated rocking baby carriage body, a connecting rod having its uppermost bearing slotted to readily effect the disengagement of said connecting rod, and means for locking said connecting rod in operative position to effect automatic restricted movement of the same.

In testimony whereof I affix my signature.

HARLIE SEREVA JACKSON.