United States Patent

Hafele

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[54] ROCKING INFANT SEAT

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[52] **U.S. Cl.** **5/108,** 5/10, 272/58, 297/260

[51] **Int. Cl.** **A47d 9/02,** A47d 13/10, A63g 9/16

[58] **Field of Search** 5/101, 108, 109, 260; 297/377, 297/274; 128/33, 24; 272/52.4, 85, 58, 43, 34, 52

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[57] **ABSTRACT**

A seat adapted for use by an infant is automatically rocked back and forth by a suitable linkage mechanism connected by a reducing gear means to a motor.

3 Claims, 3 Drawing Figures

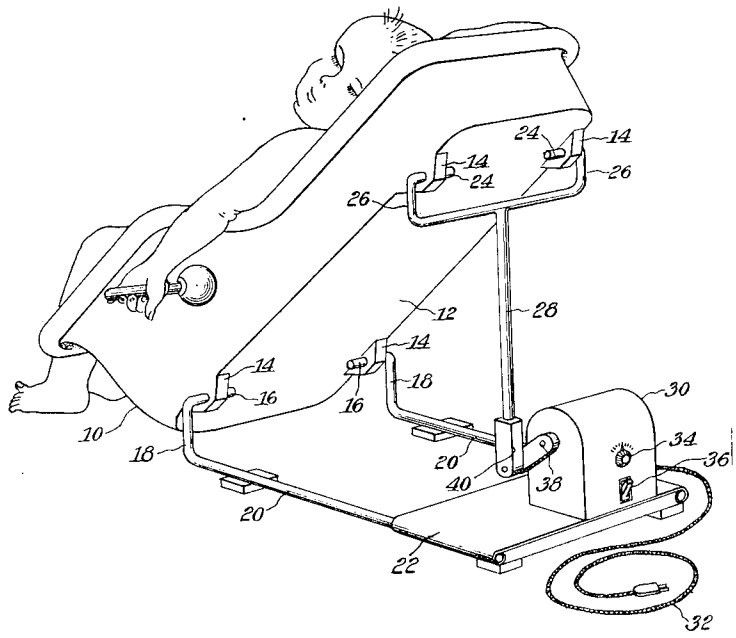
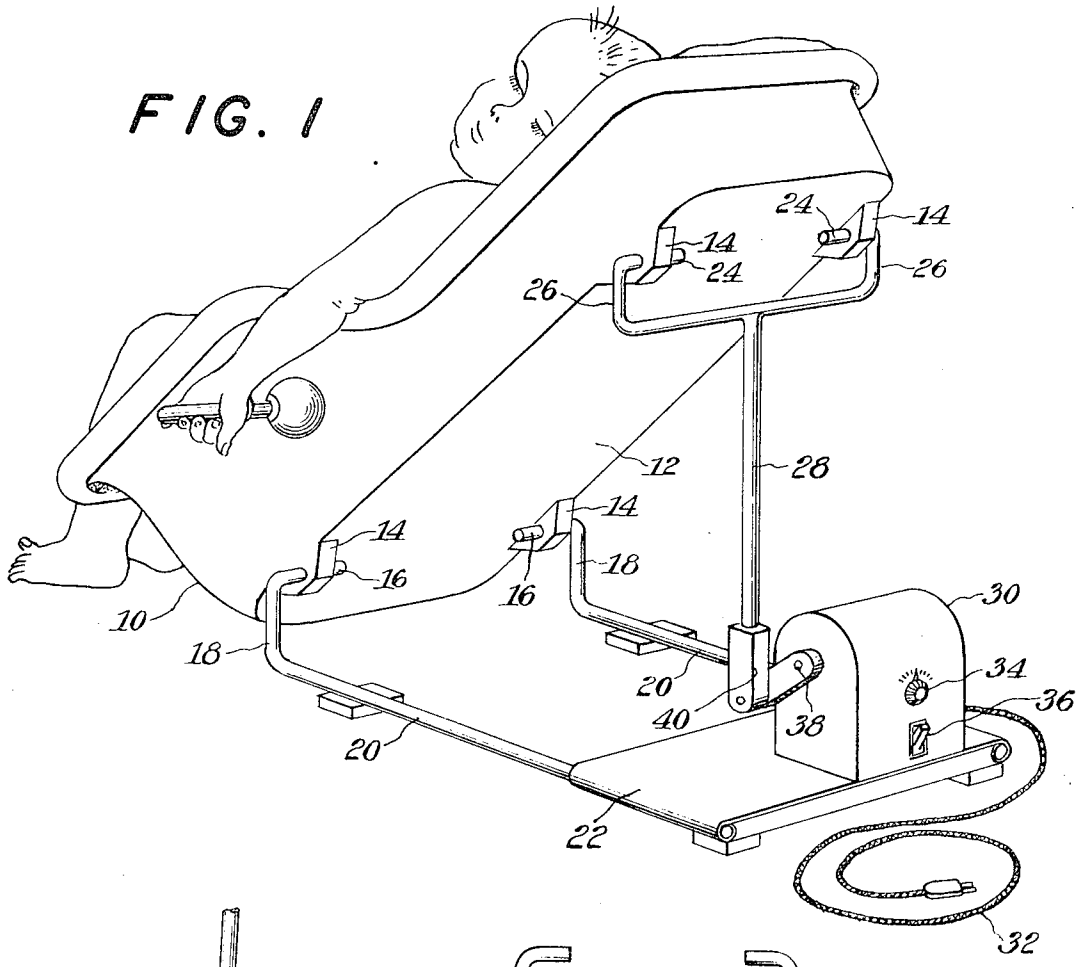


FIG. 1



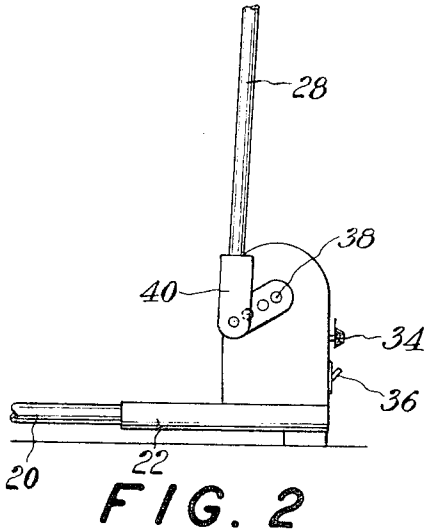


FIG. 2

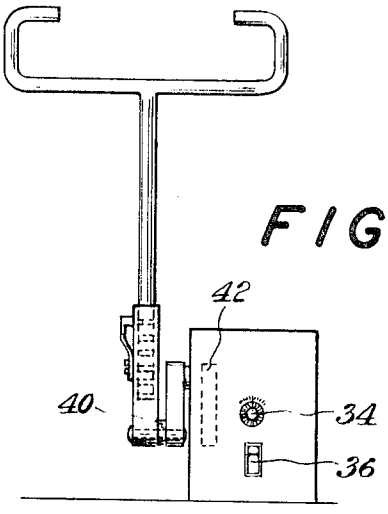


FIG. 3

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ROCKING INFANT SEAT

SUMMARY OF THE INVENTION

In my invention I employ a seat adapted to receive and hold an infant in place detachably. A frame resting upon the floor supports a spring wound or electric motor. The base of the seat is pivotally secured to the frame. A vertical linkage is secured by an eccentric through gearing means to the motor whereby the linkage is reciprocated up and down. The linkage is coupled to the back of the seat whereby the seat is rocked back and forth in a manner analogous to a rocking chair.

The infant, once in the chair, can observe freely. The motor produces a quieting monotone sound. All of this, combined with the smooth rocking action, sooths the infant.

BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings:

FIG. **1** is a perspective view of my invention;

FIG. **2** is a detail side view thereof; and

FIG. **3** is another view of the structure shown in FIG. **2**.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Referring now to FIGS. **1–3**, a seat has a base **10** and a back **12**. The rear of the base carries spaced opposite brackets **14** pivotally secured to raised horizontal extensions **16** coupled by vertical legs **18** to horizontal arms **20** of horizontal frame **22** resting upon a floor or the like.

The back **12** adjacent the top carries like brackets **14** pivotally secured to horizontal extensions **24** coupled by vertical legs **26** to a T-shaped member **28**. An electric motor **30** receiving mains power via cord **32** and having a speed control **34** and an on-off switch **36** is connected via reducing gear means **42** to a horizontal shaft **38** which is driven or rotated about its axis. An eccentric **40** connects the shaft to the bottom of member **28** whereby the member is reciprocated up and down, rocking the seat in the manner previously described.

The electric motor can be battery powered or replaced by a spring wound motor.

While I have described my invention with particular reference to the drawings, such is not to be considered as limiting its actual scope.

Having thus described this invention, what is asserted as new is:

1. A rocking and reclinging support for an infant seat having a base on which an infant may be seated and a back against which the infant may recline, said support comprising:

a horizontal rectangular frame adapted to rest on a floor or the like;

one end of the frame having short spaced apart upstanding legs provided with pivot means at the top thereof pivotally attached to the infant seat adjacent to its base and supporting it above the floor;

a motor supported on the frame at the end thereof remote from the upstanding legs and having a shaft and an eccentric fixed on the shaft; and

an upstanding member carried by and extending upwardly from the eccentric;

said upstanding member pivotally supporting the back of the seat inclined upwardly away from the pivot means whereby rotation of the eccentric rocks the seat about said pivot means.

2. The device defined in claim **1** wherein the upstanding member is T-shaped, and the back has depending brackets pivotally mounted on the top of the T-shaped upstanding member.

3. The device defined in claim **1** wherein said frame comprises two arms connected by a plate upon which said motor is mounted;

the arms extending from the plate horizontally and being turned upwardly to provide said short upstanding legs and turned toward each other at the top ends of said legs to provide said pivot means.

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