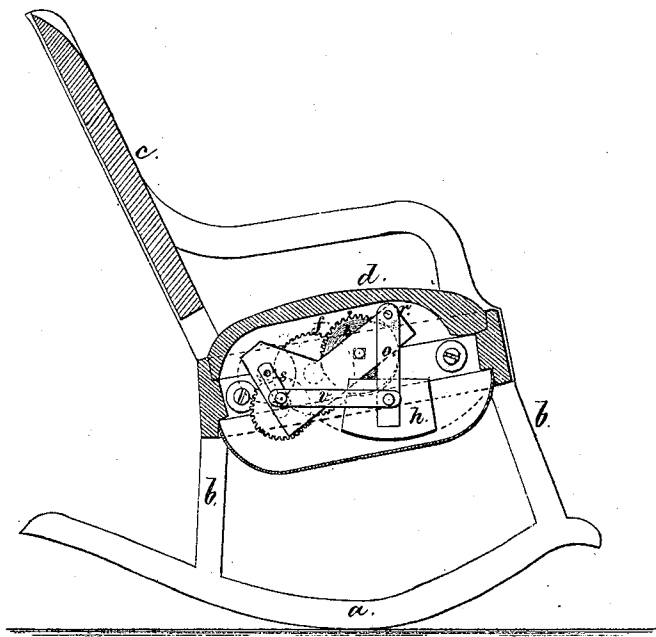


A. W. BROWNE.

Improvement in Toy-Rockers.

No. 132,625.

Patented Oct. 29, 1872.



Witnesses

Charles Smith
Geo. D. Hauser.

Inventor

Arthur W. Browne,
Samuel W. Correll
att'y.

UNITED STATES PATENT OFFICE.

ARTHUR W. BROWNE, OF BLOOMFIELD, NEW JERSEY, ASSIGNOR TO ALTHOF,
BERGMAN & COMPANY, OF NEW YORK, N. Y.

IMPROVEMENT IN TOY ROCKERS.

Specification forming part of Letters Patent No. 132,625, dated October 29, 1872.

To all whom it may concern:

Be it known that I, ARTHUR W. BROWNE, of Bloomfield, in the county of Essex and State of New Jersey, have invented an Improved Toy Rocker, of which the following is a specification:

Clock movements have been employed for rocking cradles, swinging fans, &c., in which the clock-movement acted between a stationary support and the swinging or moving device. In my present invention the clock-movement acts between a swinging weight and the article to be moved, so that said weight is a resistance to the clock-movement to cause said weight to rock the article, and by the momentum of the weight as it is swung the motion given to the rocking article is increased. By this device a toy rocking-chair, a cradle, or other toy can be rocked without any external connections, and consequently without any motor that is apparent, and affording considerable amusement from the use of this toy.

In the drawing I have shown this improvement as applied to a rocking-chair by a vertical section of the same; but it may be applied to a toy cradle, a swing, or any similar toy requiring a swinging or rocking movement. The rockers *a*, legs *b*, back *c*, and seat *d* are to be of any usual character, except that the seat is to be adapted to receive the mechanism. The clock-movement or train of gearing *f*, driven by a spring, *i*, is to be of any ordinary character, and the spring *i* is to be wound up by a key introduced from the out-

side. The weight *h* is to be proportioned to the article to be moved, and is hung by a rod, *o*, from a stud or fulcrum, *r*. From the weight to the crank *s* of the train of gearing is a connecting-link, *v*, or an equivalent device, such as an escapement-wheel and pallets.

The mechanism swinging the weight *h* changes the position of the centers of gravity, and as the weight is thrown forward the chain rocks forward, and the rapidity of movement is somewhat determined by the length of pendulum formed by the weight and its rod. As the crank passes its center and the weight is swung back the chair rocks backwardly, and the weight of the pendulum and the chair act together in giving the motion; but the mechanism forces the weight further than it would swing if unaided, thereby keeping up the full extent of movement. The weight is also a resistance to the clock-movement or train to prevent the crank *s* revolving too rapidly.

I claim as my invention—

In combination with a chair or other article placed upon segmental rockers, a swinging weight and a train of gearing moved by a spring, and acting to swing said weight, substantially as and for the purposes set forth.

Signed by me this 5th day of August, A. D. 1872.

A. W. BROWNE.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.