

Alex W. Hall Chas F. Ritchel and Saml Loyd

Tumbling Quaker.

No. 122,317.

Fig 1

Patented Jan. 2, 1872.

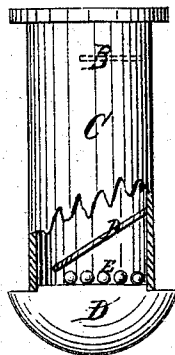
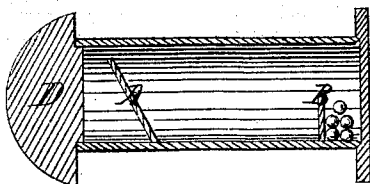


Fig 2



Witnesses

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UNITED STATES PATENT OFFICE.

ALEXANDER W. HALL, CHARLES F. RITCHEL, AND SAMUEL LOYD, OF NEW YORK, N. Y., ASSIGNORS TO SAMUEL LOYD, OF SAME PLACE.

IMPROVEMENT IN TOYS.

Specification forming part of Letters Patent No. 122,317, dated January 2, 1872; antedated December 16, 1871.

We, ALEXANDER W. HALL, CHARLES F. RITCHEL, and SAMUEL LOYD, of the city, county, and State of New York, have invented certain Improvements in Gravity Toys, of which the following is a specification:

The nature and object of our invention relates to the construction of a gravity toy or puzzle for the amusement of both young and old, and is so constructed that a person initiated in the secret can make it either lie down or rise at will, while a person unacquainted with its principles will find great difficulty and amusement in endeavoring to overcome its irrepressible disposition to rise. The following is a description of the accompanying drawing:

Figure 1 represents a hollow tube constructed of some light material, and is furnished with a leaden rocker at the base of sufficient weight to overbalance the other end. A quantity of leaden shot is placed within the tube for the purpose of counterbalancing the leaden rocker. The interior of the tube is furnished with two shelves for the purpose of retaining

the shot at either end of the puzzle. The lower shelf A, having but a small aperture, the shot can only escape when the puzzle is held with the aperture below; then hold it at such an inclination that the shot will roll to the other end of the tube, when, by turning over the puzzle, (exactly half way around,) the shot becomes secured by the shelf B, Fig. 2, and they counterbalance the weight of the rocker and the puzzle lies at rest.

Claim.

We claim as our invention—

The combination of the tube C, the leaden rocker D, the shelves A and B, and the shot E, all arranged and operating substantially as and for the purpose hereinbefore set forth.

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Witnesses:

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