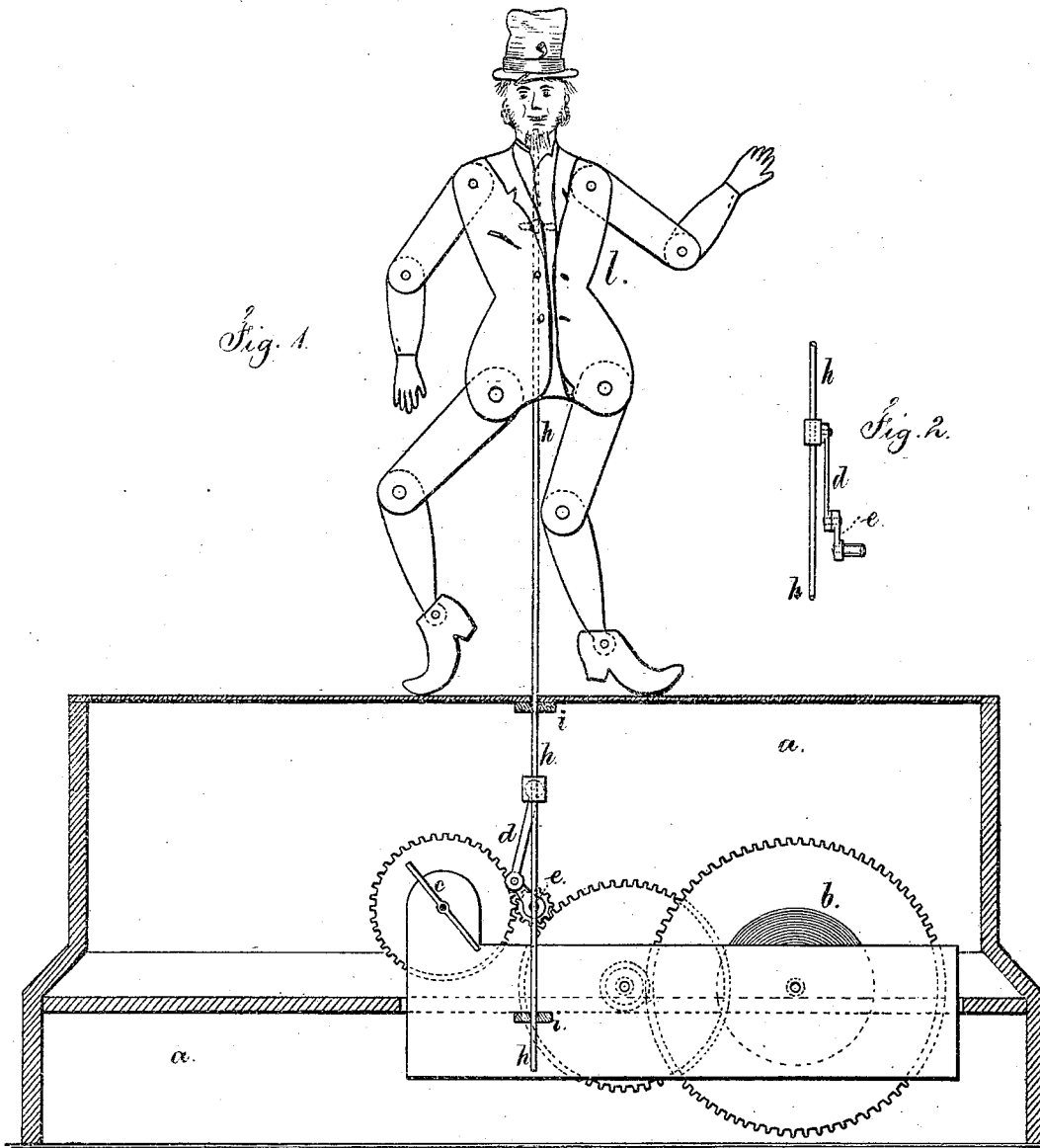


W. A. P. LA GROVE.
Automatic Toy Dancers.

No. 143,082.

Patented September 23, 1873.



Witness.

Geo. H. Smith
Geo. D. Walker

Inventor

William A. P. La Grove
Lemuel W. Terrell atty.

UNITED STATES PATENT OFFICE.

WILLIAM A. P. LA GROVE, OF BROOKLYN, NEW YORK, ASSIGNOR TO HIMSELF, CHARLES O'KEMP, OF SAME PLACE, AND HENRY H. WEBB, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN AUTOMATIC TOY DANCERS.

Specification forming part of Letters Patent No. **143,082**, dated September 23, 1873; application filed April 1, 1873.

To all whom it may concern:

Be it known that I, WILLIAM A. P. LA GROVE, of Brooklyn, in the county of Kings and State of New York, have invented an Improved Toy Dancer, of which the following is a specification:

This invention is made as a toy for the amusement of children, and for attracting attention in show-windows of toy-stores, &c.

The figure is jointed, and is upon a wire, to which a vertical movement is given by a crank to dance the figure up and down and communicate grotesque movements to the jointed limbs. The action is increased from the wire being of a flexible or springing character; and there is also a slight rotary movement by the connecting-rod from the crank tending to turn the wire as the said connecting-rod swings from one side to the other.

In the drawing, Figure 1 is a vertical section of the base upon which the figure stands, showing such figure and the actuating mechanism; and Fig. 2 is a detached view of the crank and connecting-rod.

The base *a* is of suitable size and shape, and made more or less ornamental. Within the base is a spring, *b*, and train of gearing to the regulating-fly *c* and crank *e*. From the crank

e a connecting-rod, *d*, passes to a pin, that extends to the vertical spring-wire *h*, that slides through the guides *i i* as said wire *h* and the figure *l*, that is carried at its upper end, are danced up and down by the movement of the crank *e*. The joint between the rod *d* and the spring-wire *h* is not very closely fitted, and the swinging of the link *d* and the action of the crank thereupon will tend to give a slight rotary movement—first one way and then the other—to the rod *d* and figure *l*. This figure *l* is of any desired character; and the limbs are jointed, so that they swing and move in the dancing operation.

More than one figure may be connected with the wire *h*; and, if desired, a music-box may be used in the base.

I claim as my invention—

In combination with the jointed dancing figure, the vertical wire *h*, reciprocated in the guides *i* by the connecting-rod *d*, crank *e*, shaft, and gearing, substantially as described.

Signed by me this 27th day of March, A. D. 1873.

W. A. P. LA GROVE.

Witnesses:

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