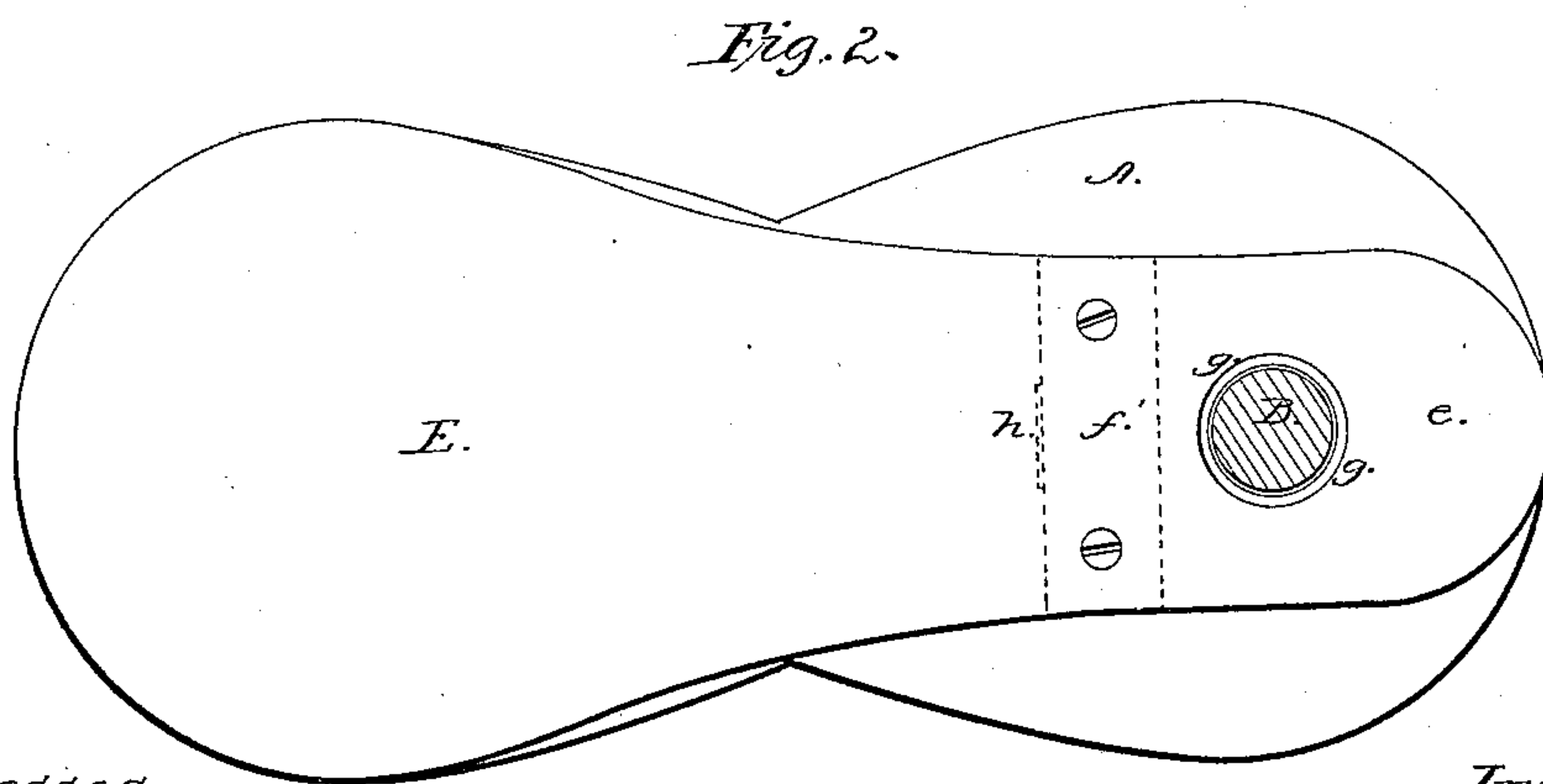
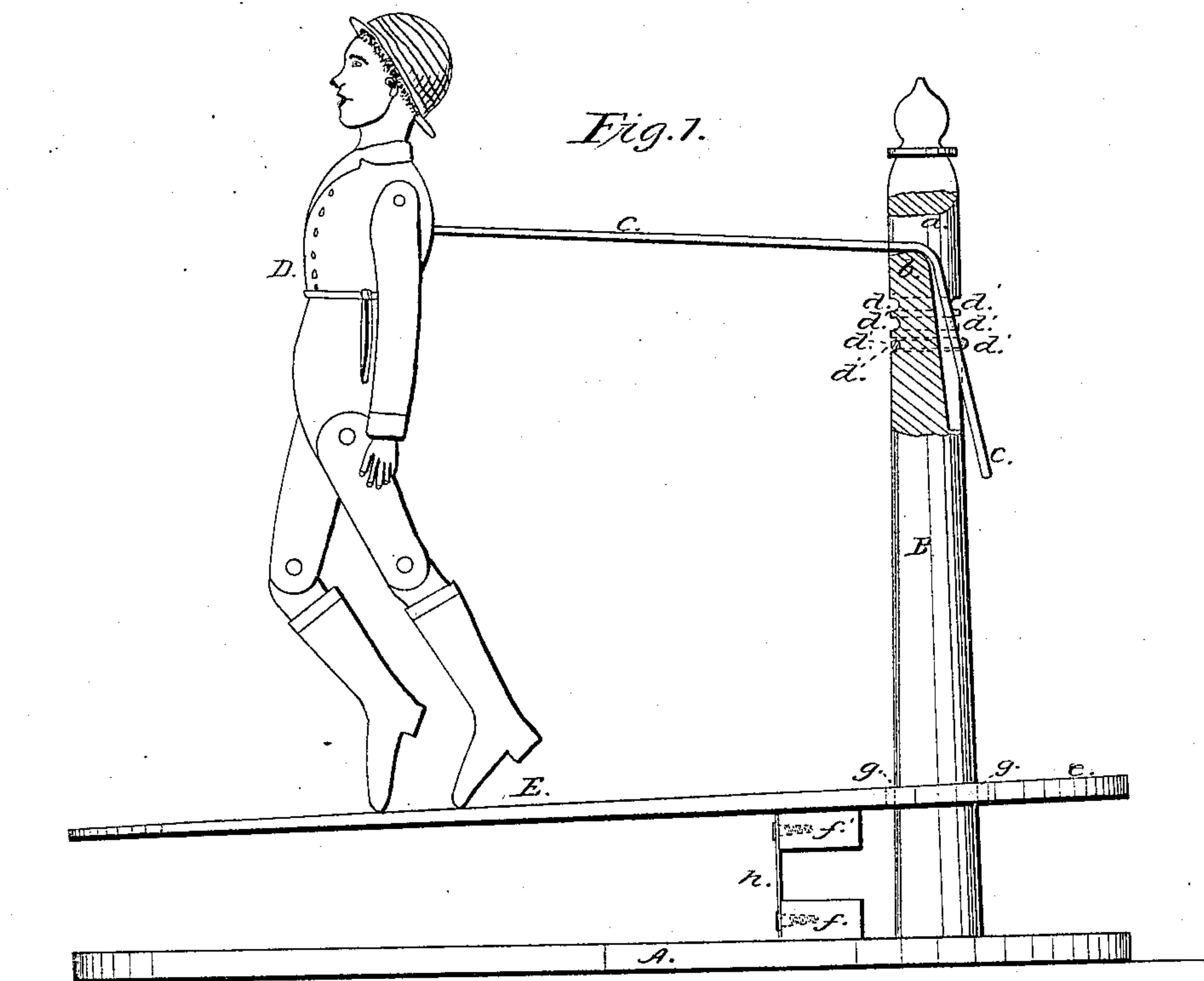


*C. Chinnock,*

*Dancing Toy,*

*No. 50,452,*

*Patented Oct. 17, 1865.*



*Witnesses:*

*Henry T. Brown*  
*J. W. Coombs.*

*Inventor:*

*C. Chinnock*

# UNITED STATES PATENT OFFICE.

CHARLES CHINNOCK, OF BROOKLYN, NEW YORK.

## AUTOMATIC DANCER.

Specification forming part of Letters Patent No. 50,452, dated October 17, 1865; antedated October 4, 1865.

*To all whom it may concern:*

Be it known that I, CHARLES CHINNOCK, of the city of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Automatic Dancers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of a dancer constructed according to my invention. Fig. 2 is a plan of the board on which the dancing is performed, and of its base and support.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to automatic dancers which have the dancing figure attached to a fixed pillar or support. Its object is to obtain a more free and lively movement with a less application of force by the fingers on the board; and to this end it consists in a novel mode of attaching the dancing figure to the supporting-pillar, whereby it is enabled to be balanced to such a degree as is desirable over the board on which the dancing is performed.

To enable others to construct dancers according to my invention, I will proceed to describe them with reference to the drawings.

A is a base, in or on which is erected the fixed upright pillar B, which is slotted, as shown at *a*, to form the fulcrum *b* for the support of the lever C *c*, to one end of which the dancing figure D is attached. This lever passes through the slot *a*, and the part *c*, which protrudes from the opposite side of the pillar to that on which the figure is arranged, is turned downward, as shown in Fig. 1, to permit it to be connected by the spring *d* with the pillar. This spring may be of india-rubber or metal; but the cheapest and most convenient kind of spring is the band or ring of india-rubber represented, which is slipped over the post and over the end of the part *c* of the lever. The spring thus applied may be made to balance the whole or any portion of the weight of the

figure by shifting it to a lower or higher position from one to another of a series of notches or grooves, *d'* *d'*, provided in the post to keep it in place. By thus balancing the figure an extremely free and lively movement of it is obtained by the slightest movement of the board E *e*, on which the dancing is performed, and the necessary movement of the board is enabled to be effected by the slightest possible exertion of the fingers of the operator.

The board E *e* is made to constitute a lever of the first class by being attached to the base A by means of an upright spring, *h*, composed of a piece of steel or other metal plate fastened by screws or other means to a cleat, *f*, on the base and another cleat, *f'*, on the under side of the board E. The said board is provided with an opening, *g*, through which the pillar B passes. The part *c* of the board which extends beyond the support or fulcrum *h*, on the opposite side of such support or fulcrum to that on which the figure is arranged, forms a finger-piece on which to perform the necessary manipulation of the fingers to produce the movement of the part E of the board on and by which the dancing is performed, thus obviating the necessity of placing the hand near the figure, and enabling it to be kept more out of view.

The spring *h*, while forming a fulcrum or support for the lever-like board, effects the same object as a separate spring applied in combination with a hinge or pin fulcrum—viz., gives an elasticity of action to the board which is very desirable.

What I claim as new, and desire to secure by Letters Patent, is—

The attachment of the figure to the pillar B by means of a bent lever, C, and an adjustable balancing-spring, *d*, substantially as herein specified.

CH. CHINNOCK.

Witnesses:

HENRY T. BROWN,  
J. W. COOMBS.