(No Model.)

L. F. SMITH.

TOY.

No. 272,168. Patented Feb. 13, 1883.

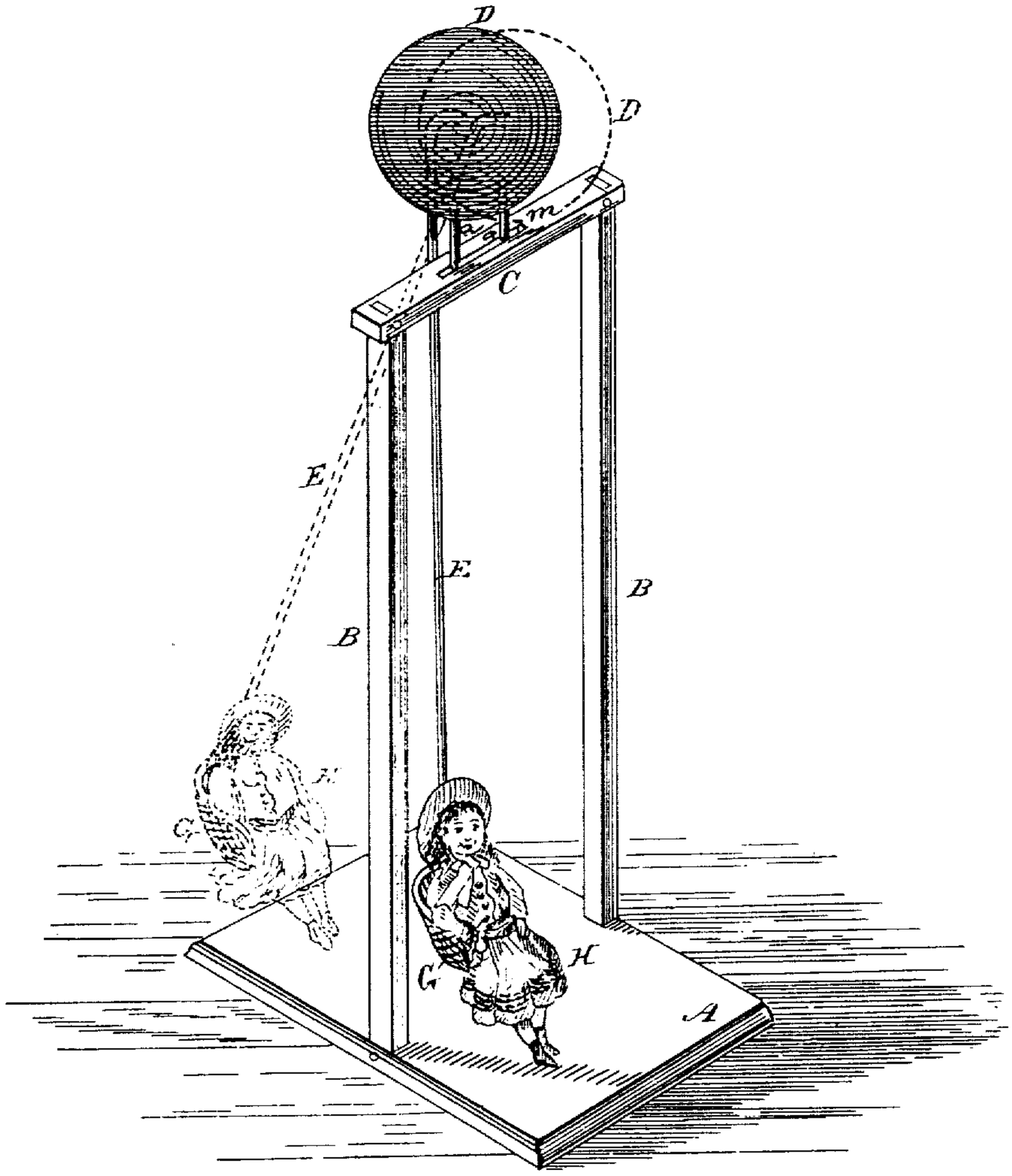

Fig. 1.

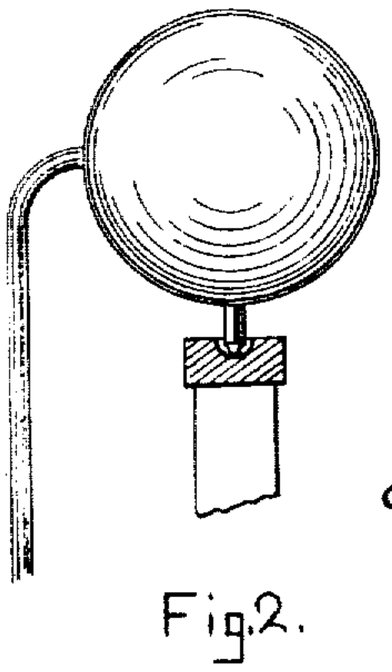

Fig. 2.

Witnesses:
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Inventor:
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Per — Atty.

UNITED STATES PATENT OFFICE.

LAWRENCE F. SMITH, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO CHARLES ALBERT SHAW, OF SAME PLACE.

TOY.

SPECIFICATION forming part of Letters Patent No. 272,168, dated February 13, 1883.

Application filed December 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, LAWRENCE F. SMITH, of Boston, in the county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Toys, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view showing the toy in use, and Fig. 2 a sectional side elevation.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to that class of toys in which there is an image designed to represent a child or person using a swing; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a simpler, cheaper, and more amusing article of this character is produced than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation, its extreme simplicity rendering an elaborate description unnecessary.

In the drawings, A represents the body or base, B B the standards or uprights, and C the cross-bar, which is provided on its upper side with the shallow groove *m*.

A ball, D, having two legs or pins, *a a*, of equal length, is provided with a long downwardly-projecting curved wire, E, and disposed above the cross-bar C. At the lower end of the wire there is a chair or seat, G, containing an image, H, representing a child or person in a swing, as shown in Fig. 1.

The pins *a a* and chair G may be substituted by any other devices that will perform the same functions.

The groove *m* may also be omitted, if desired.

In using the toy the points or ends of the pins or legs *a a* are placed in the groove *m*, to prevent them from slipping from the bar C, and the image swung back and forth, as indicated by the dotted lines J, the ball acting as a counter-balance to the chair G and image H, thereby rendering it necessary to use but little force in operating the swing, and causing it to continue its vibrations for a great length of time after being once started up.

It will be obvious that the center of motion is at the point of contact between the legs *a a* and bar C, and that the center of gravity is at the chair G. In order, therefore, to obtain the best results in the working of the toy the wire E should be bent in such a manner that it will clear the bar C, and so that the center of gravity will be brought directly under the center of motion, the legs *a a* at the same time standing in a vertical position.

It is preferable to make the standards detachable from the bed or base, and also from the cross-bar, to facilitate packing for transportation.

Having thus explained my invention, what I claim is—

The improved toy described, the same consisting of the frame-work A B C, ball D, pins *a a*, wire E, chair G, and image H, combined and arranged to operate substantially as set forth.

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Witnesses:
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