

(No Model.)

J. R. & E. E. HERSH.

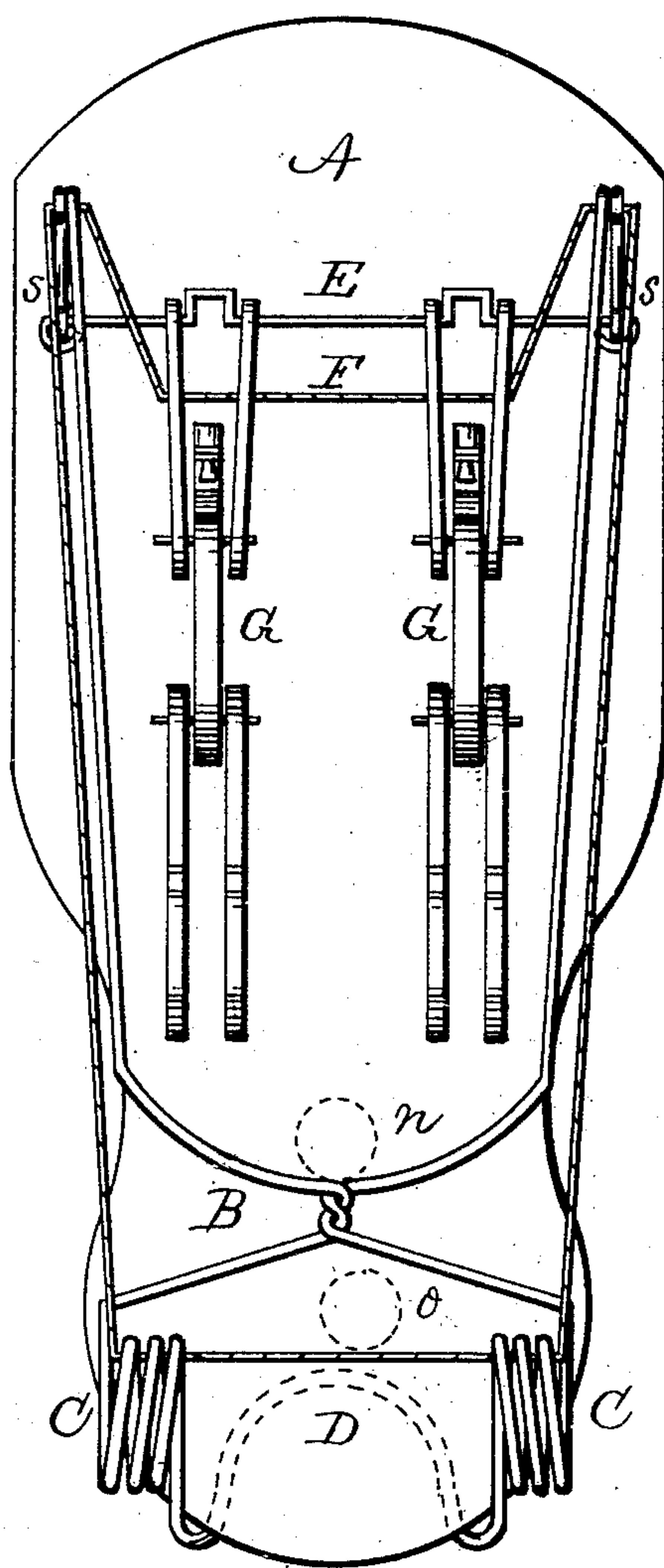
2 Sheets—Sheet 1.

JUMPING JACK.

No. 353,416.

Patented Nov. 30, 1886.

Fig. 1.



Witnesses
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2 Sheets—Sheet 2.

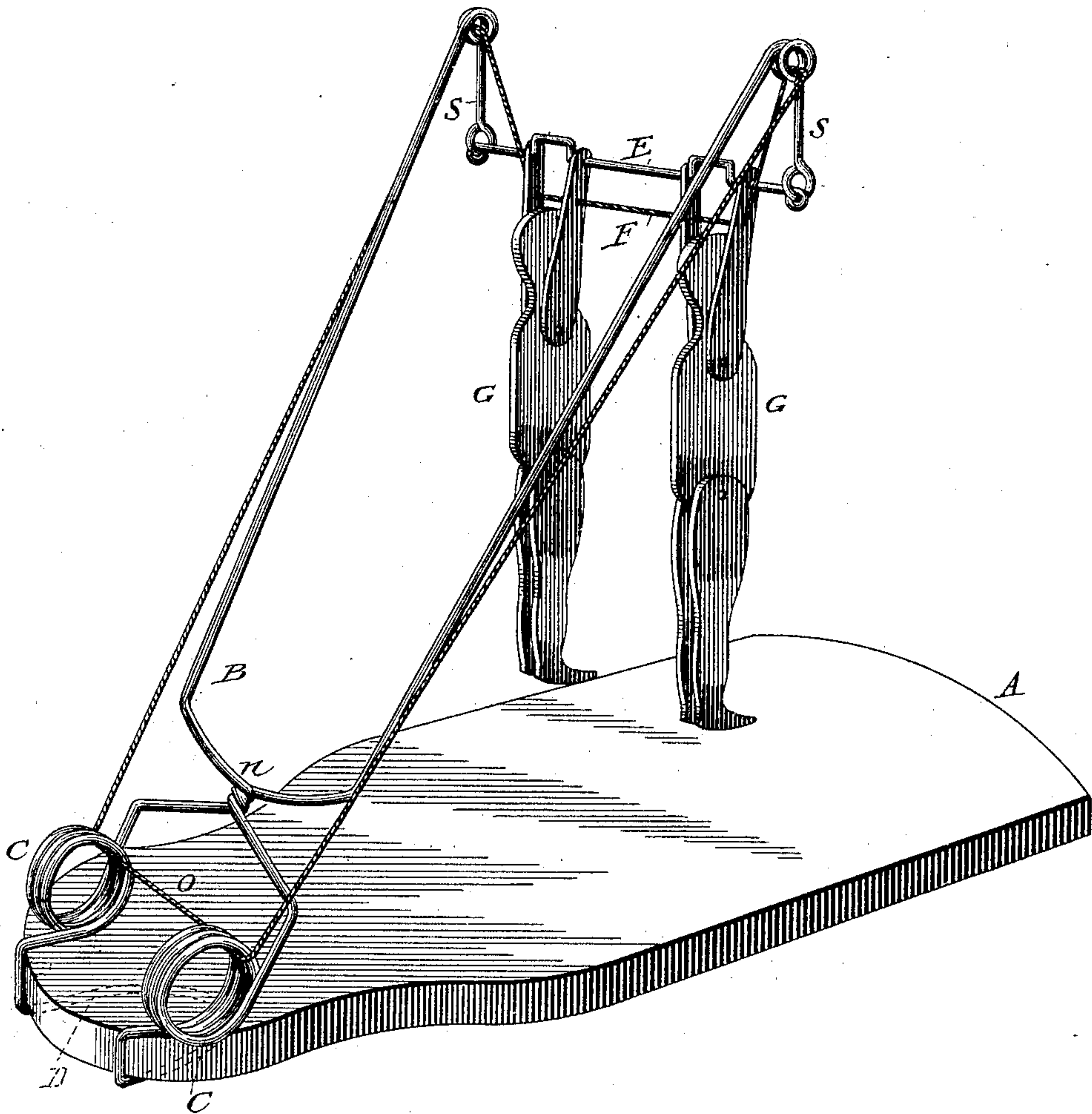
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Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN R. HERSH AND ELMER E. HERSH, OF DAYTON, OHIO.

JUMPING-JACK.

SPECIFICATION forming part of Letters Patent No. 353,416, dated November 30, 1886.

Application filed January 15, 1886. Serial No. 188,647. (No model.)

To all whom it may concern:

Be it known that we, JOHN R. HERSH and ELMER E. HERSH, citizens of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Jumping-Jacks; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in a toy entitled a "jumping-jack;" and it consists of a wire frame, to which is attached a horizontal wire for a pivot, said frame being supported on a wooden base, and held at such an angle that when the frame is depressed the feet of the figures may touch the same. A string is supported in said frame and passes through the arms of the figures suspended on said pivot, and by the pulling of said string the figures may be made to rotate and perform other evolutions. The mechanism is illustrated in the accompanying drawings, in which—

Figure 1 is a front view of the improved jumping-jack with the base elevated from a horizontal position. Fig. 2 is a perspective view of the same.

The wire frame B is made of one piece of wire. It is formed by making a semicircular bend, D, at the center, then is bent upwardly and forward, and then formed into the spring-coils C; thence the wire is bent and twisted together, thence curved outwardly, and extends upwardly at an angle to the base. Eyes are formed at the upper ends, and short lengths of wires, terminating in eyes, are bent downwardly at acute angles to the arms. Within these eyes at the extremities of the frame are held the pivotal wire E. This pivot is formed with right-angled bends between the arms of the two figures to keep the same apart, and the ends are curved around the eyes of the frame to maintain a fixed relation of said parts. The bends of the pivot maintain the figures in the same relation on the same, thus preventing them being drawn together by the operating-cord.

The figures G G are made in the semblance of men, and are composed of arms and legs jointed to the bodies by wire. The figures are

suspended on the pivot by their arms, on which they freely move. The block of wood A serves as a base, and the frame is attached by passing the semicircular curve beneath, and the ends of the spring-coils rest on the top surface. The cord F is passed through the eyes at the top of the frame, the arms of the figures, and the spring-coils at the lower end of the wire frame. This frame holds the figures slightly above the base, and to make them dance the index-finger is pressed on the frame at the circular dotted line *n*, and the feet strike the base and hop up by the resiliency of the frame. To rotate and swing the figures, the finger next the index is placed on the string between the spring-coils, as indicated by the circular dotted line *o*. Numerous evolutions are effected by the movement of the finger and the gravity of the figures.

One or several figures may be suspended on the pivot, and when two are thus suspended they may be arranged to face each other.

We are aware that thimbles have been used on the cords to keep the arms separated, and therefore claim only the bends in a wire pivot for the purpose.

Having fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. In combination with a jumping-jack, a frame for operating the same, consisting of a central curve to embrace the base A, the spring-coils C C, the arms twisted together at the center to form a finger bearing and extending over the said base-board, eyes at the top, and return-bends *s s*, with loops, in combination with the pivot E, which forms the bearings for said jumping-jacks and passes through said loops B, and the string F, which passes through the arms of said jumping-jacks, the eyes of the frame, and the spring-coils, substantially as set forth.

2. The pivot E, with angular bends and jumping-jacks suspended thereon, in combination with the operating-cord F, held in eyes of the frame above the point of suspension of said jumping-jacks, substantially as set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JOHN R. HERSH.

ELMER E. HERSH.

Witnesses:

B. PICKERING,

C. A. WALTIRE.