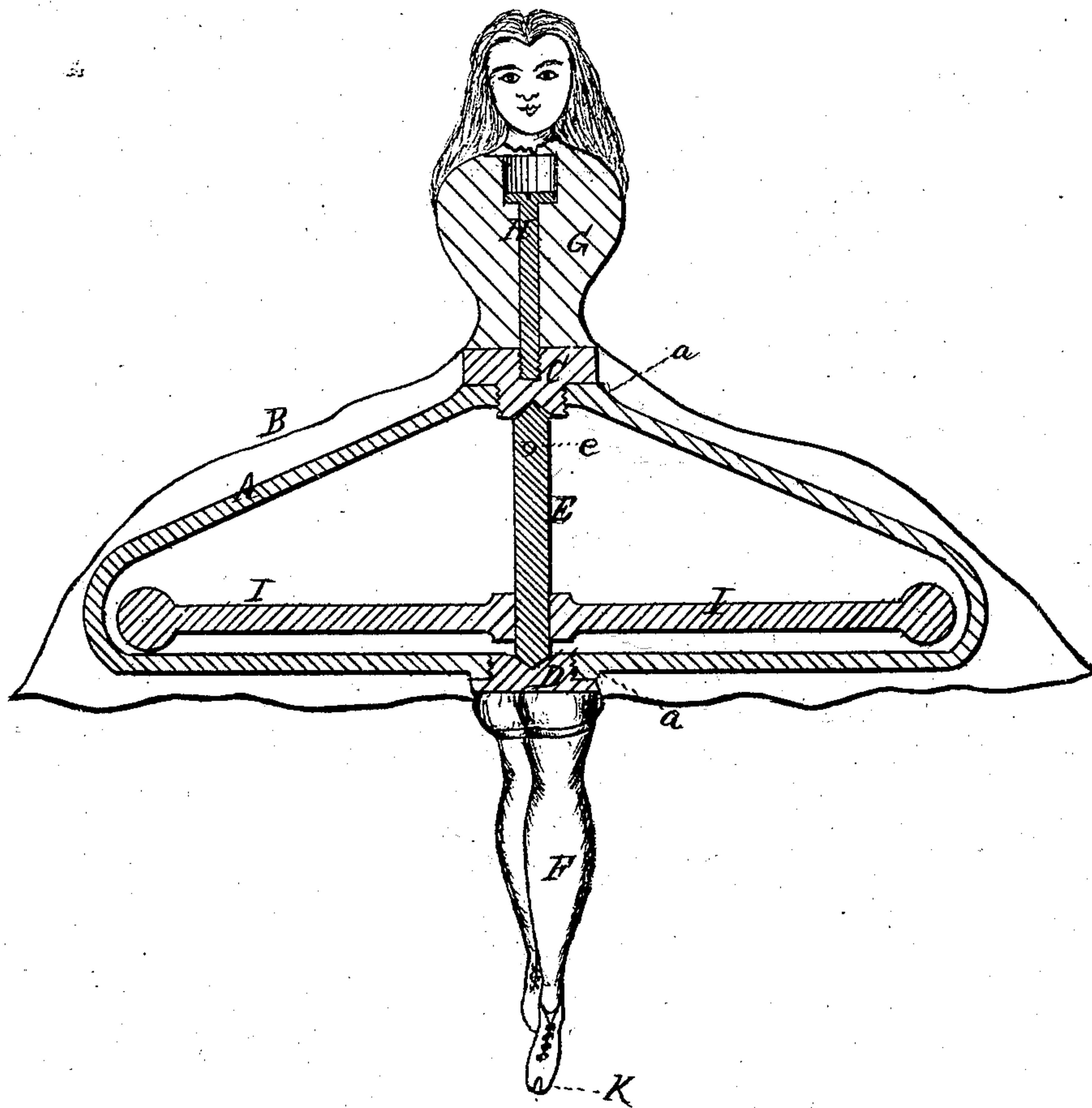


C. L. Coombs,

Toy.

No. 99644.

Patented Feb. 8. 1870.



Inventor

Cha. L. Coombs

Witnesses

Edwin A. Godwin

J. L. Coombs

United States Patent Office.

CHARLES L. COOMBS, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 99,644, dated February 8, 1870.

IMPROVEMENT IN TOYS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES L. COOMBS, of the city of Washington, in the District of Columbia, have invented a new and useful Improvement in Toys; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and letters of reference marked thereon, making part of this specification.

My invention consists in a doll, having a gyroscope wheel concealed within it, so that when said wheel is put in motion, the doll will balance itself in various positions when set upright.

The accompanying drawing represents a sectional view of my invention.

A represents a strong metal frame, of such shape as to be easily concealed by the skirt of the doll.

The said frame is enlarged at the points *a* and *a'*, and drilled to receive the screws C and D, which form bearings for a shaft, E.

The screw D forms the upper part of the legs of the doll, and the screw G, the lower part of the body of the doll.

I prefer to make the body of the doll of wood, or some other light material, and attach it to the head of the screw C by means of a screw-bolt, H, but do not limit myself to this particular construction.

The shaft E is pointed at each end, to fit the conical sockets in the screws C and D, which form the bearings of said shaft.

Upon the shaft E a wheel is secured, said wheel being made of metal or other material of suitable weight and strength.

In the toe of the doll, or in some other part of the foot of the doll, as the case may be, a slot, *k*, is cut, the purpose of which is hereinafter described.

The head and arms of the doll may be attached to the body in any convenient manner, and may be made of any material ordinarily used for such purposes.

The skirt of the doll B falls to about the knees of the figure, and is attached to the waist in such manner that it may be lifted from the frame A, when it is desired to put the wheel in motion.

The doll is made ready to balance, by putting the wheel in rapid motion, and this may be effected in any convenient manner; but I prefer to do so by means of a cord wrapped around the shaft E, as in the ordinary gyroscope.

While the wheel is in motion, if the figure be placed upon its feet, it will retain its upright position; and if it be placed upon a smooth surface, the doll will revolve upon its own feet slowly and gracefully. Or it may be placed upon a wire, by means of the slot in its foot or foot-peg, and if the wire be slightly inclined, will move slowly down it, appearing to walk the wire. The doll may also be placed upon an upright stand or shaft, and will even balance upon the end of a person's finger.

Having thus fully described my invention, and the various modes of carrying it into effect,

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

A doll or top, constructed to balance in various positions, by means of a gyroscope wheel concealed within it, substantially as herein described.

CHAS. L. COOMBS.

Witnesses:

J. J. COOMBS,

Jos. L. COOMBS.