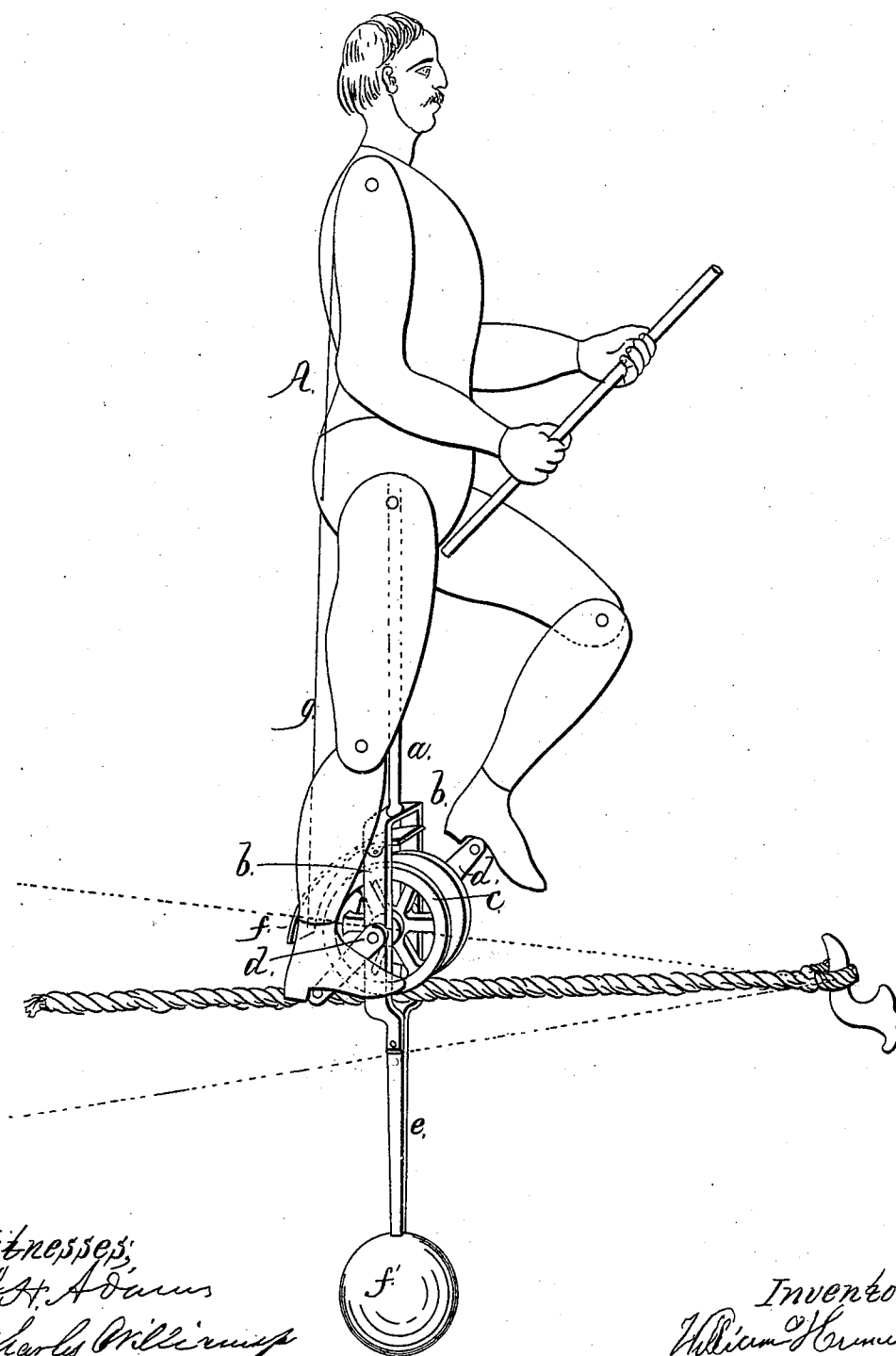


W. Humans,
Toy,
Nº 70,850, Patented Nov. 12, 1867.



Witnesses,
J. H. Adams
Charles Williams

Inventor,
William Humans

United States Patent Office.

WILLIAM HUMANS, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF
AND CHARLES WILLIAMS, JR., OF SAME PLACE.

Letters Patent No. 70,850, dated November 12, 1867.

AUTOMATIC TIGHT-ROPE DANCER.

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

Be it known that I, WILLIAM HUMANS, of Boston, in the county of Suffolk, and State of Massachusetts, have invented a new toy, which I term an Automatic Tight-Rope Walker, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, making a part of this specification, and representing a human figure balanced and apparently walking upon tight rope.

The various parts of the figure are designed to be made of sheet metal or other suitable thin material, and painted or colored to suit the taste or fancy. The arms are pivoted or hung to the shoulders, so as to allow them to be raised, and the hands hold a stick or rod to give the appearance of balancing the body. The upper parts of the legs are pivoted to the body of the figure, and the legs are jointed at the knees so as to allow a natural motion to both parts of the legs. Attached to the lower part of the body is a rod, *a*, extending downward a short distance to a frame, *b*, and within this frame is journaled a wheel or pulley, *c*. The said wheel or pulley is grooved on its periphery so as to run upon a cord, *d*, as shown. The journal or axis of the wheel or pulley *c* projects on each side, and to each projection is attached one end of a crank, *d*. The other end of the crank is pivoted to the lower part of the foot on each side. The said cranks project from the axis of the pulley in opposite directions on each side, so that as the pulley rotates, one foot and leg will be elevated as the other is lowered, thus giving the figure the appearance of walking. The frame *b* extends below and encompasses the rope or cord on which the wheel or pulley runs, and has attached to its lower end a rod, *e*, extending downward, and provided with a weight, *f*, which serves as a counterbalance to the figure above, to keep the latter in an upright position, and balanced upon the cord. One end of the cord which sustains the figure is designed to be attached to a hook or other fixture, and the other end being held by the hand may be raised or lowered to incline the cord in either direction, so that the pulley will run down the incline from one end to the other, the feet and legs being in motion at the same time. To the upper part of the frame *b* may be hinged a curved arm or detent, *f*, extending to the front or rear, or both, and to the lower end of the said arm is attached a string, *g*, which extends upward and is attached to one of the arms at the shoulder in such a manner that when the string is pulled downward the arm will rise, so that as the figure moves forward or back on the line, and the free end of the arm *f* strikes against an object, the said arm will be slightly depressed, and thus draw down the cord or string *g*, and cause the arms to rise and lift the pole that is carried in the hands of the figure. The same motion may be imparted to the arms of the figure by means of a rod or other connection directly from the arm or crank *d*, if desirable.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A jointed figure, balanced, as shown, in combination with a pulley-wheel, *c*, provided with cranks or arms *d*, through which motion is imparted to the legs of the figure as the pulley passes over a cord, on which it is supported, substantially as described.

2. I claim the combination of the hinged arm or detent *e* and cord *g*, or its equivalent, attached to the arm of the figure, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM HUMANS.

Witnesses:

JOS. H. ADAMS,

CHARLES WILLIAMS, Jr.