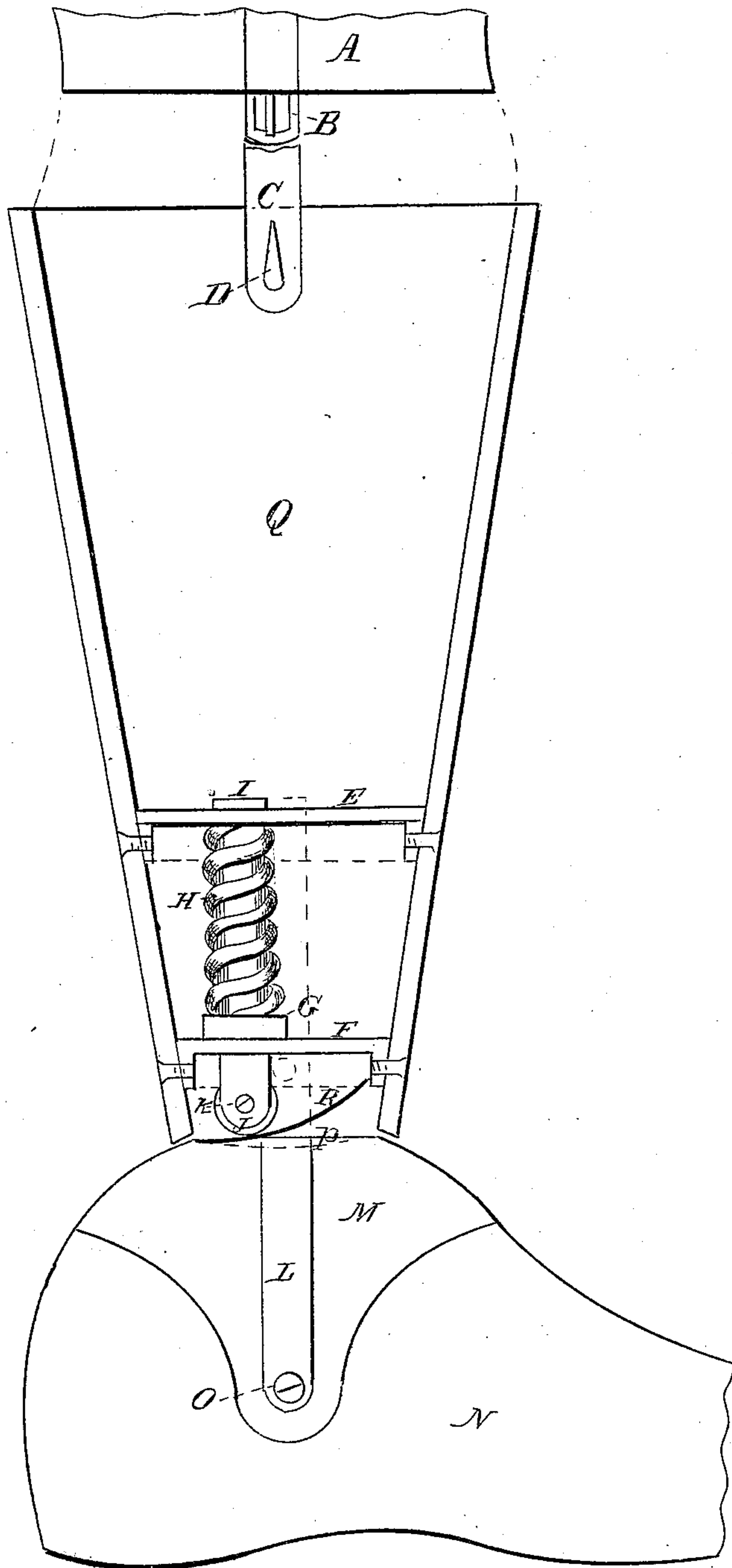


*R. Moore,*

*Leg.*

*Nº 92,739.*

*Patented Jul. 20. 1869.*



*Witnesses*

*A. B. Williams*  
*David R. Smith*

*Robert Moore*

# United States Patent Office.

ROBERT MOORE, OF OSWEGO, NEW YORK.

*Letters Patent No. 92,739, dated July 20, 1869.*

## IMPROVEMENT IN ARTIFICIAL LEGS.

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, ROBERT MOORE, of Oswego city, in the county of Oswego, and State of New York, have invented a new and improved Artificial Leg and Foot; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing an artificial leg and foot, connected and working in an improved manner, as follows:

By placing above the knee, and around the stump of the real leg, a leather collar, marked A, and to this is fastened a metallic buckle, one on each side, marked B, and from these buckles, downward, extend leather straps, fastened to the artificial leg Q, by a hook, D, which hook is fastened into the artificial leg, which is always hollow.

The upper bar of brass (marked E) passes directly across this hollow artificial leg, and about three or four inches from the bottom, which bar has flanges turned down, and is fastened, by screws or otherwise, to the artificial leg, and another brass bar is placed two or three inches below and nearly at the bottom of the leg, marked F, running across the hollow of the leg, the same as the upper bar, and above this is a shoulder of brass or other metal, marked G, fastened to the lever I, which shoulder rests upon the bar F, when the spring is not pressed together by any action of the leg or foot.

Extending through these bars and shoulder, and perpendicular thereto, is an iron lever, hollow, and made as light as possible, marked I, and extending to the foot.

This lever, being about one-half inch in diameter, is encircled with a spiral spring, H, made of brass or steel, and, at the extreme lower end of it, is a wheel, J, running in a slot, and on a pin or axle, passing through the lever I at the centre, marked K, upon which it revolves, passing forward and backward upon the concave surface *p* of the foot, and upon the curved or circular spring made of steel, marked R, fastened at the

back end upon this concave surface, and extending forward and upward in a circular form, and going backward on this concave surface and circular spring, when the leg and foot are extended forward, and running forward when the leg and foot are extended backward.

When the foot rests upon the ground, this spiral spring acts with its full force, and presses the lever I downward, and the wheel J upon the concave surface of the foot P and the circular spring R, thus raising the toe of the foot, the moment the foot is raised from the ground.

A little in front of this lever, and extending as far up as the upper brass bar E, are two iron hinges or plates, one on each side of the leg, (marked L,) fastened firmly inside of the hollow leg to the leg, Q, and extending down below the leg and ankle-joint, and fastened to the foot N, by a bolt of iron, marked O, passing through the hinges and foot, and these irons and this bolt form the only fastening of the leg to the foot, and act in conjunction with the spiral and circular spring and wheel, giving the same motion, as near as may be, to the artificial ankle-joint as the natural ankle-joint, in stepping.

M is a brass covering to the raw-hide foot, to prevent chafing.

In case the leg is off above the knee, and I desired to form a knee-joint, as well as an ankle-joint, in addition to the above, I would use the same springs at the knee-joint, reversed, and acting either upon a flat or concave surface.

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

The lever I, with the spiral spring H, and circular spring R, and wheel J, and hinge L, when connected with the foot as stated, and combined and connected together substantially as stated, and for the purpose described.

ROBERT MOORE.

Witnesses:

W. A. POUCHER,  
JOHN H. FAIR.