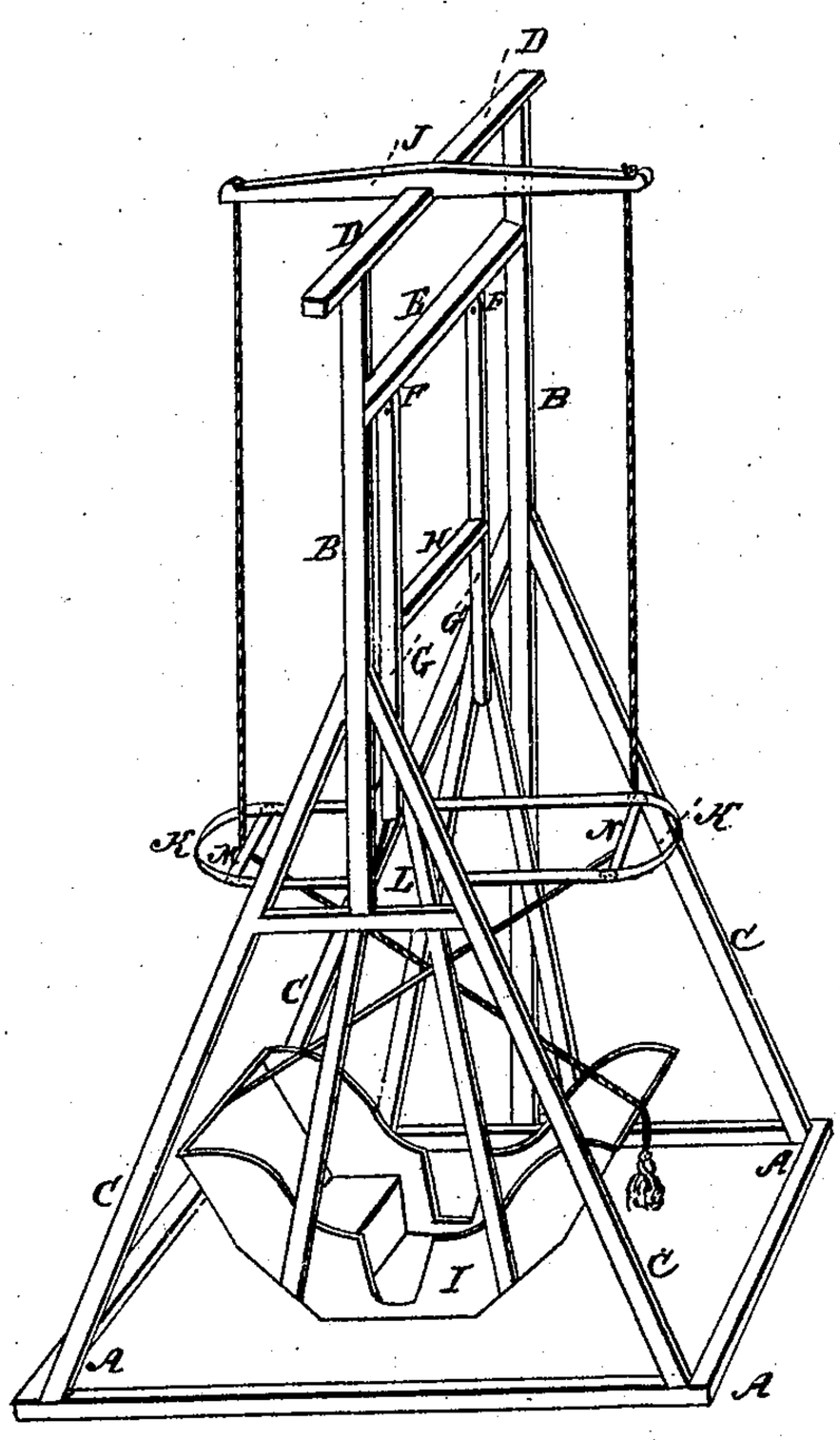
C. Luxton,

Spring,

No. 5,330, Patented Oct. 16, 1847.



UNITED STATES PATENT OFFICE.

CHARLES LUXTON, OF NEW YORK, N. Y.

IMPROVEMENT IN SWINGS.

Specification forming part of Letters Patent No. **5,330,** dated October 16, 1847.

To all whom it may concern:

Be it known that I, CHARLES LUXTON, of the city, county, and State of New York, have invented a new and useful Improvement in the Swing for Exercise and Recreation of Invalids and others; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, and which represent a perspective view of said invention.

A square horizontal frame A A A, eight feet long and four feet wide, consists of four sills, secured to each other at the angles by screws or tenons, and upon the two side sills thereof are erected two posts B B, supported with braces C C C C and connected to each other at the top by a cap or cross-head D and a cross-beam E, the latter being a little below the former. (One or both of these posts may be supported by a side beam parallel to the side sills, but at some distance above and supported by the braces, the foot of the post resting on the side beam instead of the sill.) From this cross-beam two hangers F F descend about four inches, and to these are connected by pivots or hinge-joints two pendulous arms G G, which are connected to each other by a cross-bar H, and immediately below the cross-bar each of these arms becomes divided into (or united to) two branches, which descend to a swing-car I and are attached thereto, the swing-car being thereby supported.

To the center of the cap D is attached a horizontal cross-tree or yoke J crossing the cap at right angles, the yoke being about two feet long. A rod or strip of wood or metal about sixteen feet long is attached horizontally to two of the pendulous branches about four feet above the swing-car, and the two ends of the rod are bent semicircularly and attached to the other two branches, as shown at K and L, or the two ends of this bent rod may extend so as to meet and be attached to each other. Two cylindrical rollers M N extend horizontally across the bows or semicircles of the bent rod, being mounted on axle-pivots, on which they revolve freely. From each end of the yoke a cord descends to the corresponding roller, passing over which it extends horizontally or in a direction approaching the horizontal, to the swing-car for the use of the person or persons who may occupy the seats facing the respective rollers and who, by gently pulling the cord, may give a forward motion to the car. These rollers being about three feet long serve to conduct the cord so as to accommodate the person holding the same, whether such person sits on the right or left end of the seat, and by giving the cord a nearly horizontal direction renders the requisite exertion more convenient and agreeable to the person exercising.

I do not claim the construction of the frame, pendulous arms, branches, nor swing-car, they having been in use many years; but

I do claim as original and desire to secure by Letters Patent—

The combination of the bent rod and cylindrical rollers with the swing-frame, car, and cords, as herein described.

CHARLES LUXTON.

Witnesses:

RUFUS PORTER,

A. R. HAIGHT.