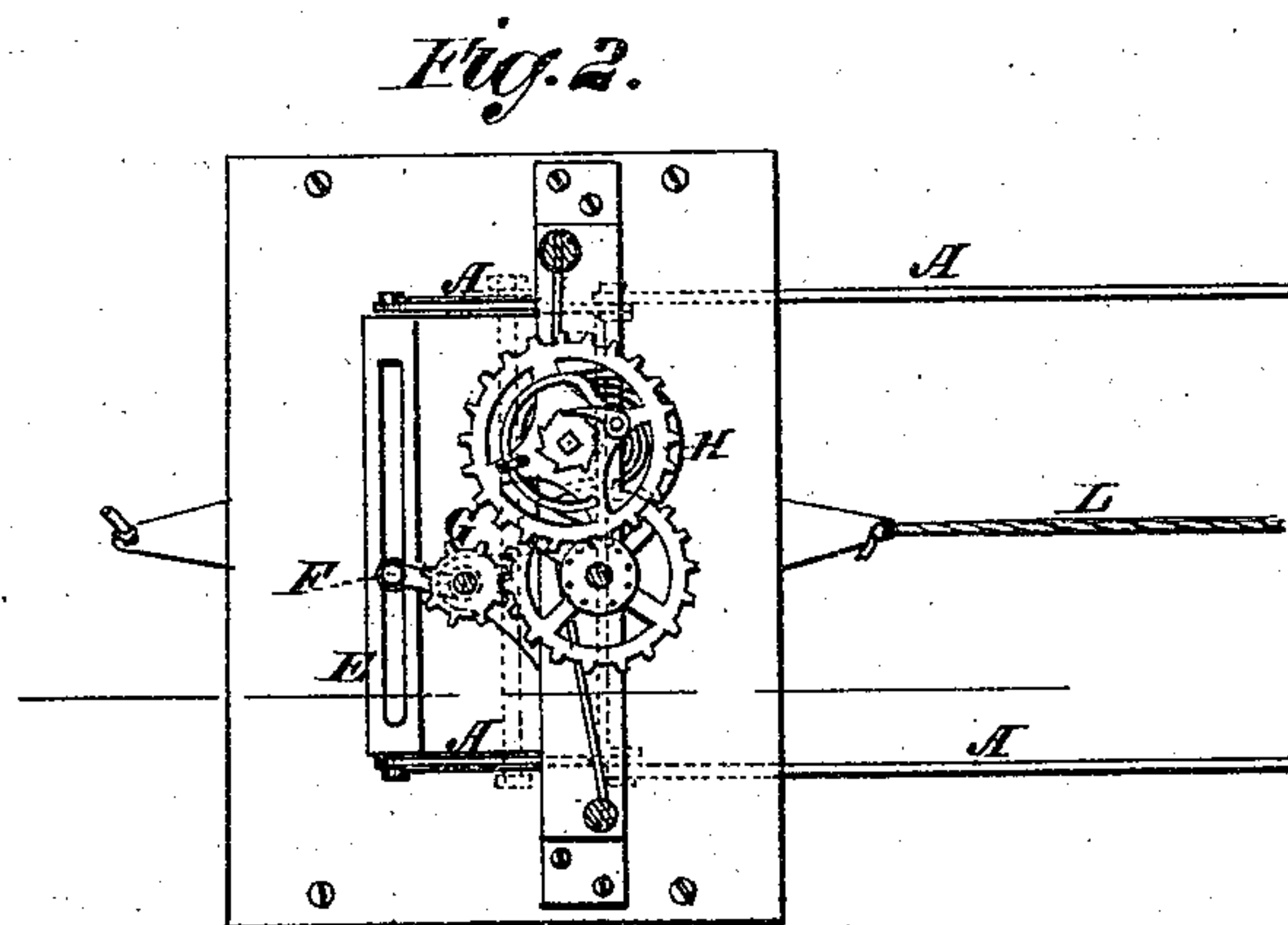
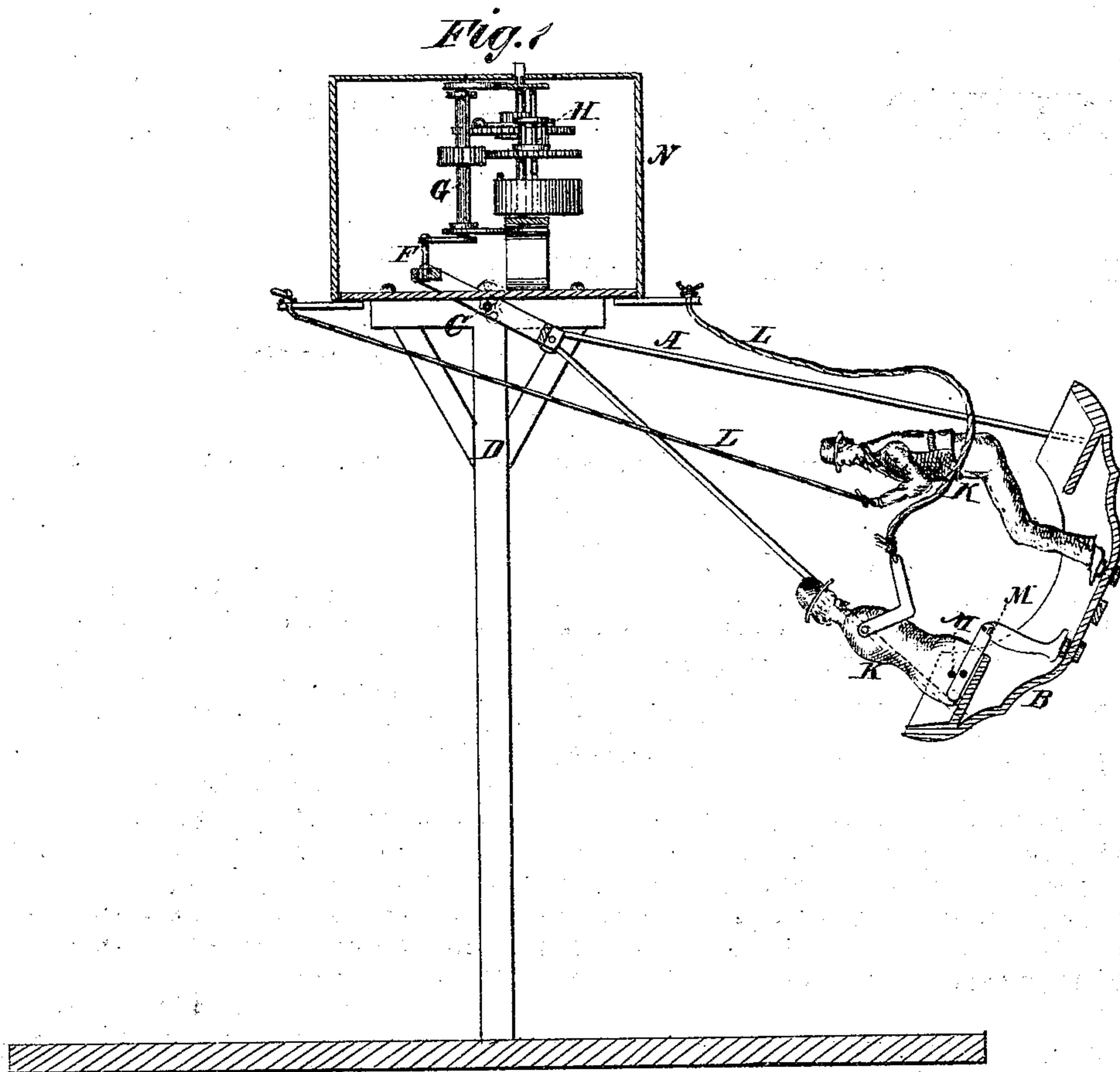


G. MULLER & C. TOELCKE.

Toy Swings.

No. 153,778.

Patented Aug. 4, 1874.



WITNESSES:
Francis McAule,
Chiquier

INVENTOR:
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BY *mm*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE MÜLLER AND CHARLES TOELCKE, OF HOBOKEN, NEW JERSEY.

IMPROVEMENT IN TOY SWINGS.

Specification forming part of Letters Patent No. **153,778**, dated August 4, 1874; application filed June 27, 1874.

To all whom it may concern:

Be it known that we, GEORGE MÜLLER and CHARLES TOELCKE, of Hoboken, in the county of Hudson and State of New Jersey, have invented a new and Improved Toy Swing, of which the following is a specification:

Our invention consists of the rods which suspend the swing from the pivots on which they vibrate, extended above the pivots, and carrying a slotted cross-bar, in which the wrist of a crank turned by a clock-spring works to impart the vibratory motion to the swing.

Figure 1 is a sectional elevation of our improved swing, taken on the line $x\ x$ of Fig. 2; and Fig. 2 is a top view.

Similar letters of reference indicate corresponding parts.

A are the vibrating rods by which the swing-box B is suspended from pivots C, on any suitable supporting-frame D. These rods we propose to extend up above the pivots a short distance and connect with a slotted cross-bar, E, in the slot of which we arrange the wrist-pin F of a crank-shaft, G, for working the swing, the crank-shaft being turned by a spring clock mechanism, H, of any approved kind.

The train of gears connecting the crank-shaft with the driving-power will probably be extended in practice to obtain a slower motion for the swing than would be afforded by the arrangement shown.

K represents the figures in the carriage to imitate the action of persons working the swing by hand, through the medium of ropes L, connecting them with the top of the swing-frame so that one rises up from the seat just before the swing reverses, and sits down immediately after, as if pulling at the cord to actuate the swing. The figures are provided with stops M at the points of the legs to prevent them from folding down the wrong way when raised up by the cords, and they are weighted in a manner to insure their falling back on the seats.

The method of gearing the crank-shaft with the swing-rods is simple and cheap, and it allows of conveniently arranging the machinery on the top of the swing-frame, where it can be hidden by a case, N, so that the figures alone are represented to the eye as the means of impelling the swing.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

In a toy swing, the swinging rods A, extended above the pivots and connected by a slotted cross-bar, E, with the crank-shaft, substantially as specified.

GEORGE MÜLLER.
CHAS. TOELCKE.

Witnesses:

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