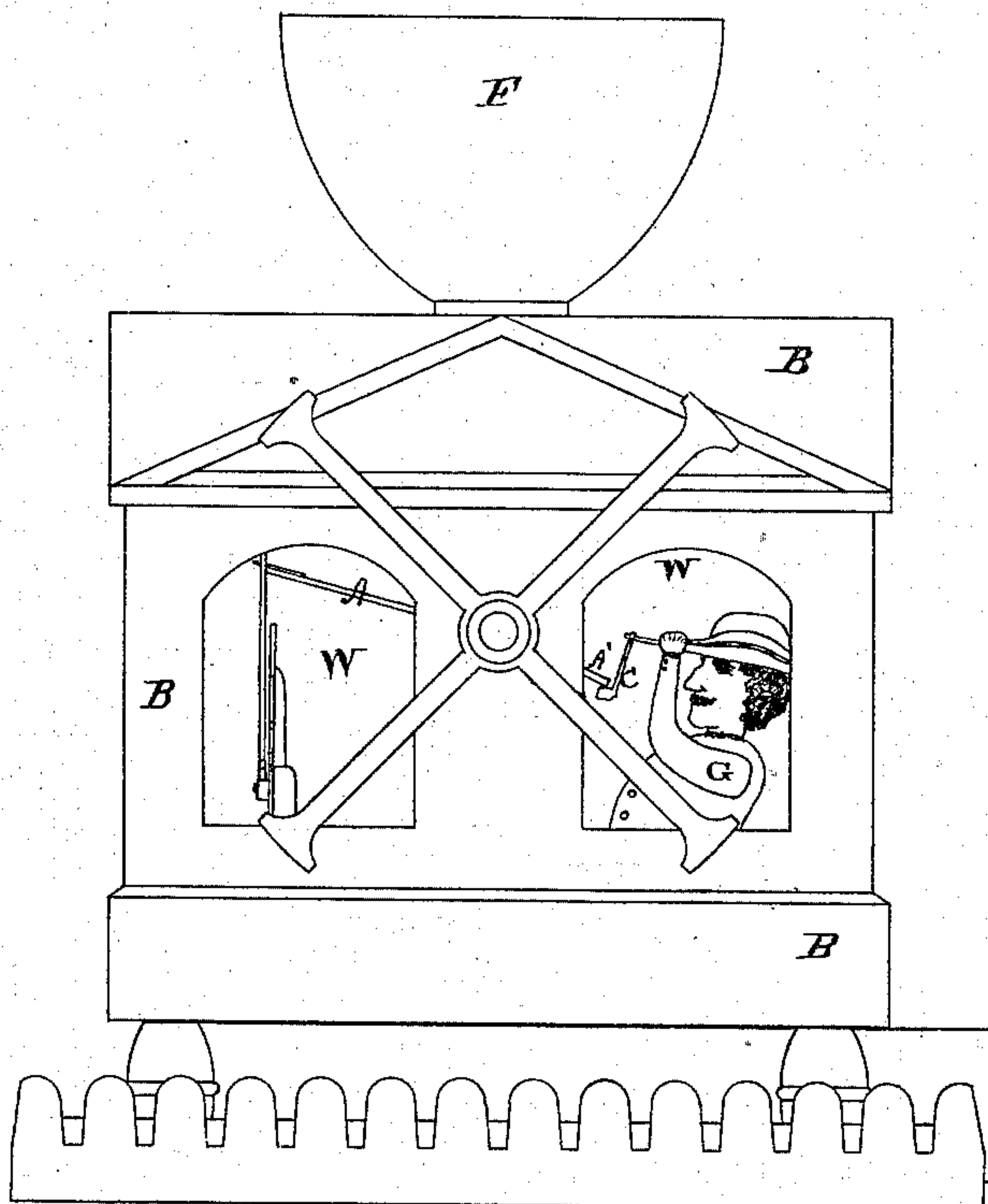


H. MENCKE.
Mechanical Toys.

No. 158,430.

Patented Jan. 5, 1875.

Fig 1.



WITNESSES:

Isaac A. Brownell

C. A. Carpenter

INVENTOR:

Henry Mencke

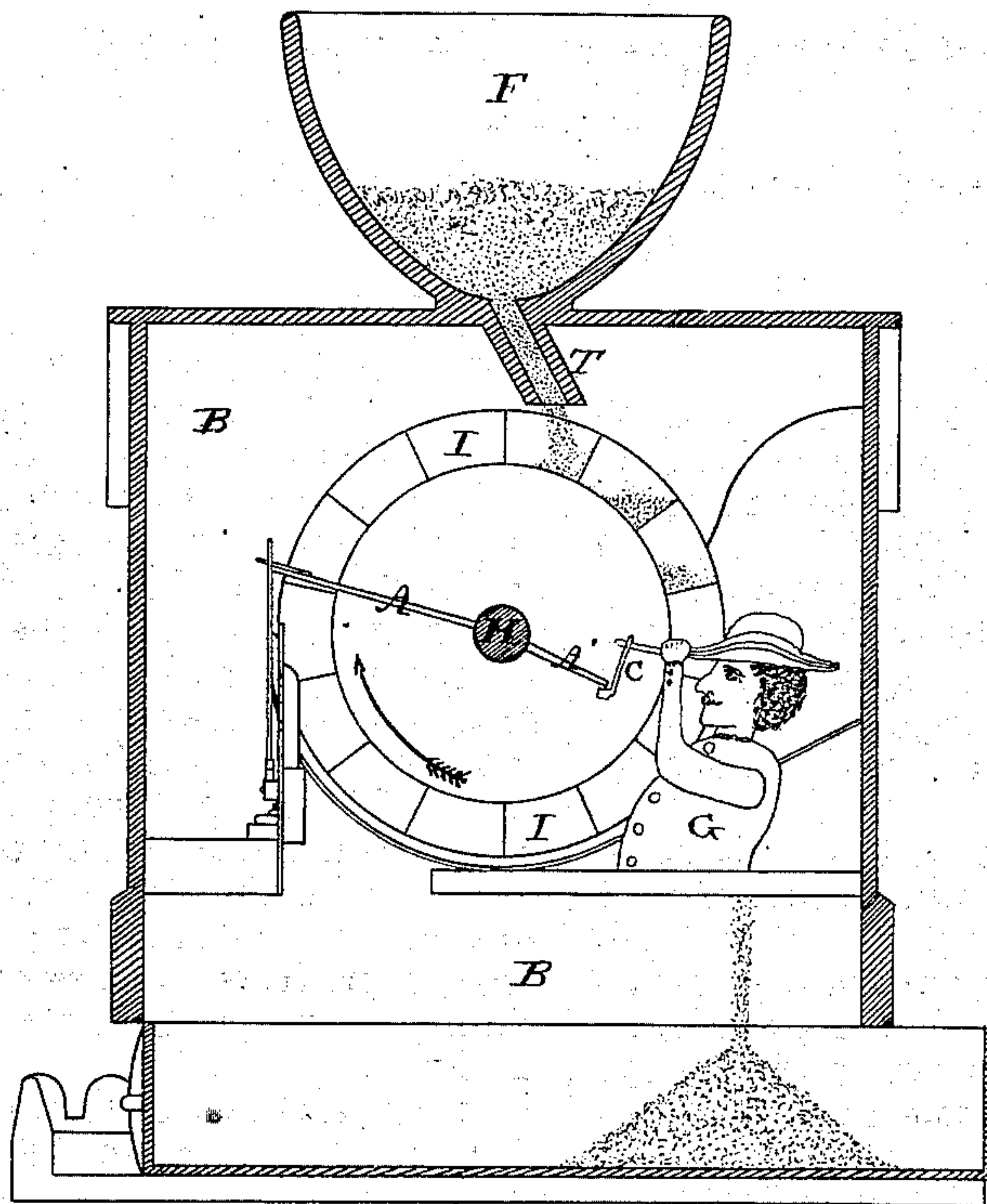
2 Sheets--Sheet 2.

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Fig 2.



WITNESSES:

Isaac A. Brownell

C. A. Carpenter

INVENTOR:

Henry Mencke

UNITED STATES PATENT OFFICE.

HENRY MENCKE, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR OF ONE-HALF
HIS RIGHT TO CHARLES VIGNERON, OF SAME PLACE.

IMPROVEMENT IN MECHANICAL TOYS.

Specification forming part of Letters Patent No. 158,430, dated January 5, 1875; application filed
April 1, 1874.

To all whom it may concern:

Be it known that I, HENRY MENCKE, of the city and county of Providence and State of Rhode Island, have invented a new and useful Mechanical Toy, of which the following is a specification, referring to the accompanying drawing making part of the same, in which—

Figure 1 is an elevation of my said toy. Fig. 2 is a vertical section of the same.

Similar letters mark like parts in all the figures.

My invention consists of a box with glass-covered openings, at or through which figures of men or animals or other objects are arranged or may be seen, to which figures or objects motion is imparted by the rotation of a wheel and axle, produced by a current or running body of sand, shot, or other suitable material falling on the periphery of the said wheel, which is suitably constructed to be turned by it.

In the drawing, B is the said box, which, as represented, is in the form of a house, the windows W of which form the glass-covered openings above mentioned. At the top of the box there is a funnel or hopper, F, beneath which, inside, is a spout, T. There is arranged in the center of the box an overshot-wheel, I, with buckets at its periphery, like a water-wheel, on a horizontal shaft, H, turning easily on suitable pivots at its ends. Upon this shaft there are a number of arms, A A', which, by

the shaft's rotation, strike or otherwise give motion to the figures or objects G arranged within, opposite the several glass openings.

The rotative motion of the shaft is produced by placing a quantity of fine, dry sand, or shot, in the funnel or hopper F, which runs in a stream or body through the bottom and down the spout T, from which it pours onto the periphery of the wheel I, as shown in Fig. 2, and turns it in the direction indicated by the arrows. The arm A' strikes against the projection C on the arm of the figure J, with the effect to make the figure doff its hat. Other amusing and natural actions of similar figures may be produced in great variety, the whole forming a pleasing and interesting toy for children.

I am aware that it is not new to operate mechanical toys by means of falling sand operating a wheel; but

What I claim is—

The sand-mill toy herein described, consisting essentially of the box B, provided with the axle H, arms A A' on each side of the wheel I, the hopper F, figures G, and openings W, substantially as and for the purpose set forth.

HENRY MENCKE.

Witnesses:

ISAAC A. BROWNELL,
DAVID HEATON.