

(No Model.)

A. M. FREEMAN.

TOY.

No. 328,206.

Patented Oct. 13, 1885.

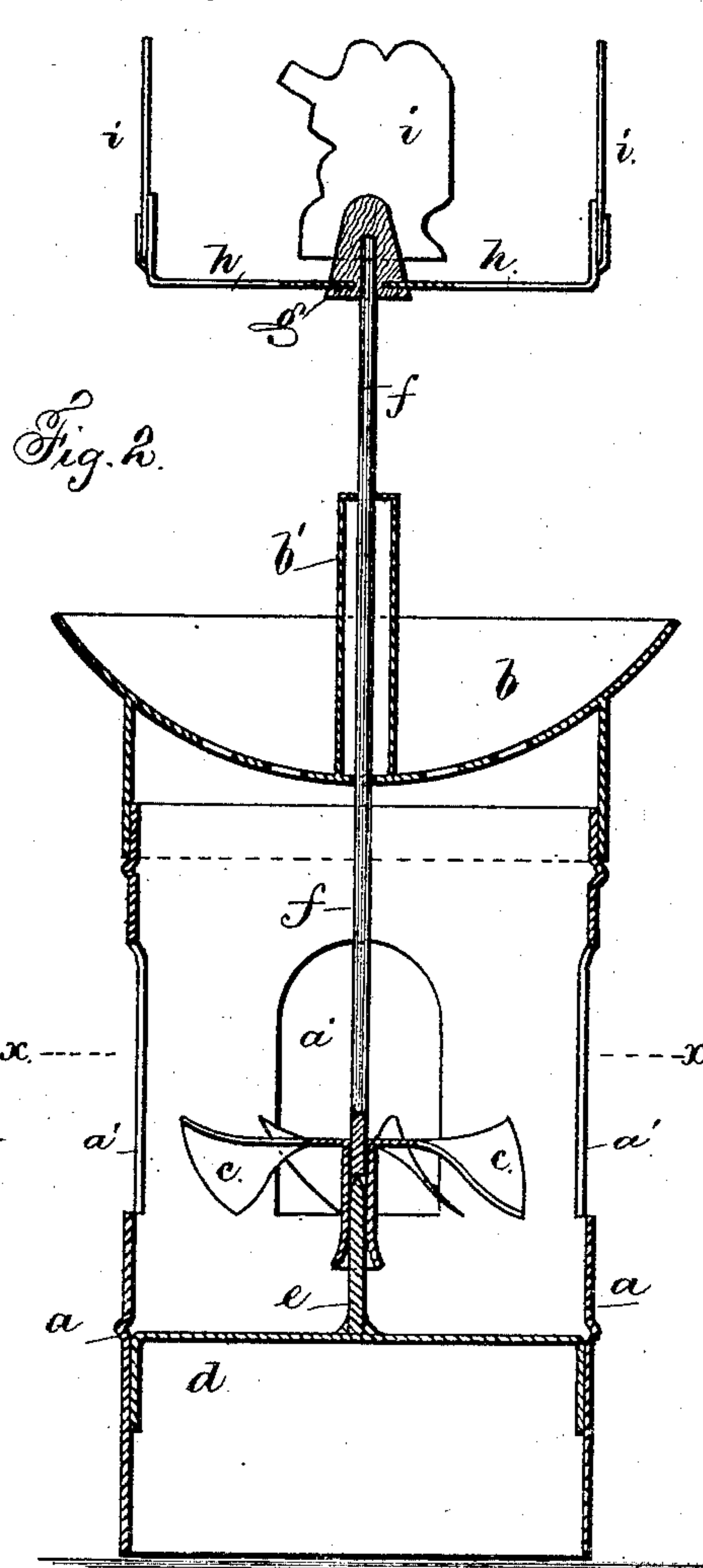


Fig. 2.

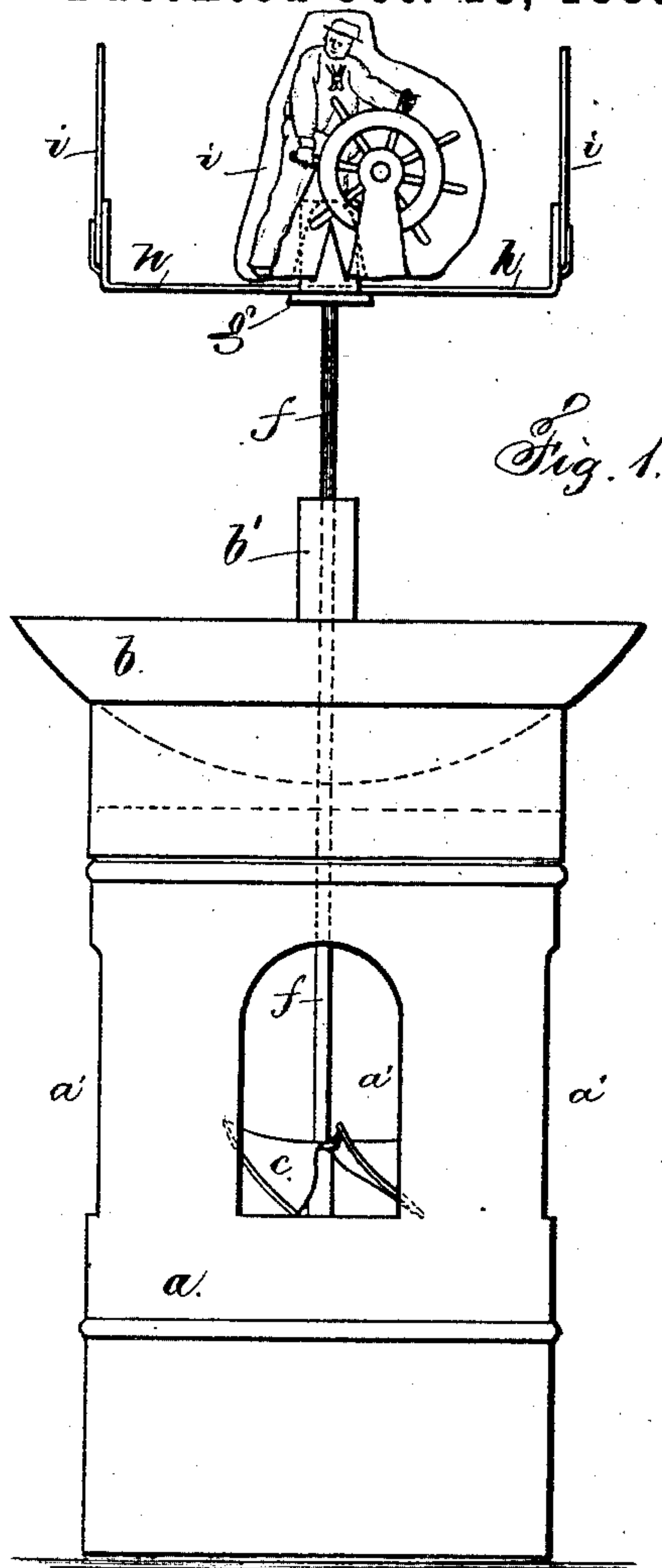


Fig. 1.

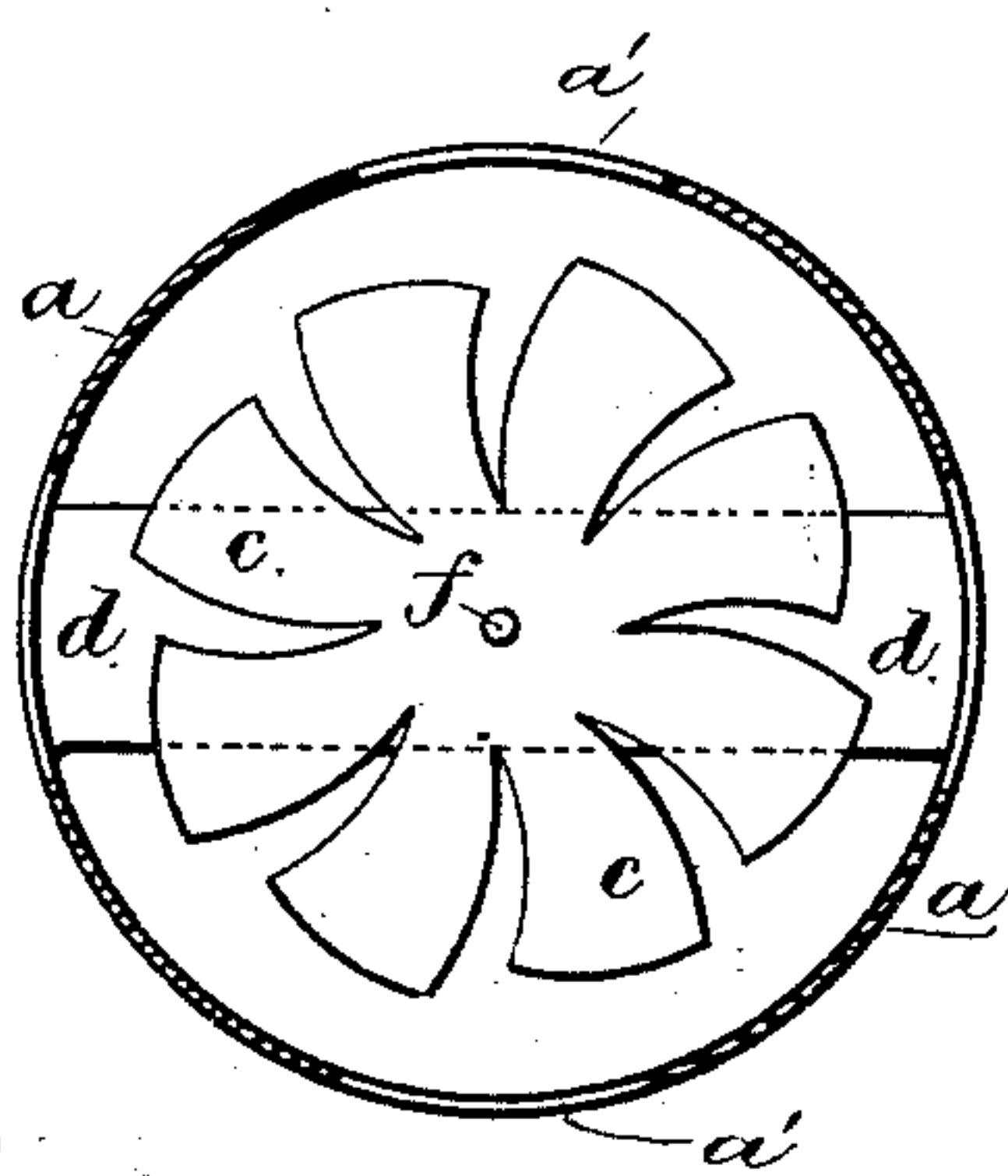


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

AUGUSTUS M. FREEMAN, OF OCEAN GROVE, NEW JERSEY, ASSIGNOR TO HIMSELF, ALEXANDER C. KELLY, OF METUCHEN, NEW JERSEY, AND JOHN I. HOLLY, OF NEW YORK, N. Y.

TOY.

SPECIFICATION forming part of Letters Patent No. 328,206, dated October 13, 1885.

Application filed September 15, 1884. Serial No. 143,107. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTUS M. FREEMAN, of Ocean Grove, in the county of Monmouth and State of New Jersey, have invented a new and useful Improvement in Toys, and the following is declared to be a description of the same.

My improved toy consists in a sand-mill, intended for the amusement of children, especially at the sea-shore.

The toy is made of a cylindrical sheet-metal body, open at the bottom end, and having a perforated hopper at the upper end, and containing a propeller-wheel mounted upon and operating a rod, to the upper end of which is placed a head-block carrying arms, and figures upon the ends of the arms. Sand is poured into said hopper, and passing through the perforations falls upon the propeller-wheel and causes the wheel to revolve, its revolution turning the shaft and figures connected to the end of said shaft, and thus affording amusement to children, and a diversion and recreation by giving something to do in supplying sand into the hopper, and changing the toy about from place to place as the lower part becomes filled.

In the drawings, Figure 1 is an elevation of the toy. Fig. 2 is a vertical section of the same, and Fig. 3 is a cross-section at the line *x x*.

The cylindrical sheet-metal body *a* is preferably open at both the bottom and top, and upon the top fits the hopper *b*, perforated for the passage of the sand. The body *a* I have shown as made with openings at *a'* to represent windows, and these openings allow the children to see the movement of the propeller-wheel *c*.

There is a bridge-piece, *d*, across the body *a*, soldered to its inner surface, and said bridge-piece carries the pivot *e*, upon which rests the rod *f*, carrying the propeller-wheel *c*, and around the end of rod *f* is a sleeve fitting over the rod *e* and holding the parts in place. The rod *f* passes up through the hopper *b* and through the guiding-sleeve *b'*, se-

cured to said hopper, and upon the end of the rod *f* there is a hub, *g*, carrying arms *h*, upon the ends of which are supported figures *i*, of men, animals, &c., printed on cardboard or otherwise constructed. Colored tassels, flags, &c., may be substituted for said figures.

Sand is poured into the hopper *b*, and passing through the holes therein falls upon the blades of the propeller-wheel, causing said propeller to revolve, and it in turn revolves the rod *f* and figures *i*.

As the lower part of the cylindrical body *a* fills up with sand the toy can be moved to another place. This toy affords amusement and diversion to children.

My improved toy can be made to spin like a top, or to turn first one way and then the other, similar to a buzz, by employing a string wound upon the rod *f* above the hopper.

I am aware that a toy has been operated by currents of heated air acting upon a wheel supported above a flame to revolve the wheel and figures suspended from it; also that a toy has been made wherein sand from a stationary hopper falls into and fills the buckets of an overshot wheel turning on a horizontal shaft, with arms upon such shaft to operate figures contained within the box or case of the toy. In my invention there is an open cylindrical case and hopper, a vertical shaft and horizontal propeller-wheel, a bridge and pivot for supporting the shaft, and figures outside and above the case, and upon arms radiating from said shaft.

I claim as my invention—

1. The combination, in a toy, of a cylindrical case, a cylindrical detachable hopper at the upper end of such case for receiving sand, a vertical shaft passing through the hopper, a horizontal propeller-wheel upon the shaft and within the case, and a bridge and pivot below the wheel and supporting the shaft and propeller, substantially as specified.

2. The combination, in a toy, of a cylindrical case, a cylindrical detachable hopper at the upper end of such case for receiving

sand, a vertical shaft passing through the
hopper, a horizontal propeller-wheel upon the
shaft and within the case, and a bridge and
pivot below the wheel and supporting the
5 shaft and propeller, and figures upon radial
arms from the upper end of said rod above
the body of the toy, as and for the purposes
set forth.

Signed by me this 10th day of September,
A. D. 1884.

AUGUSTUS M. FREEMAN.

Witnesses:

HAROLD SERRELL,
WILLIAM G. MOTT.