

J. W. PILKINGTON.

Improvement in Toy Boats.

No. 133,250.

Patented Nov. 19, 1872.

fig. 1.



fig. 2.

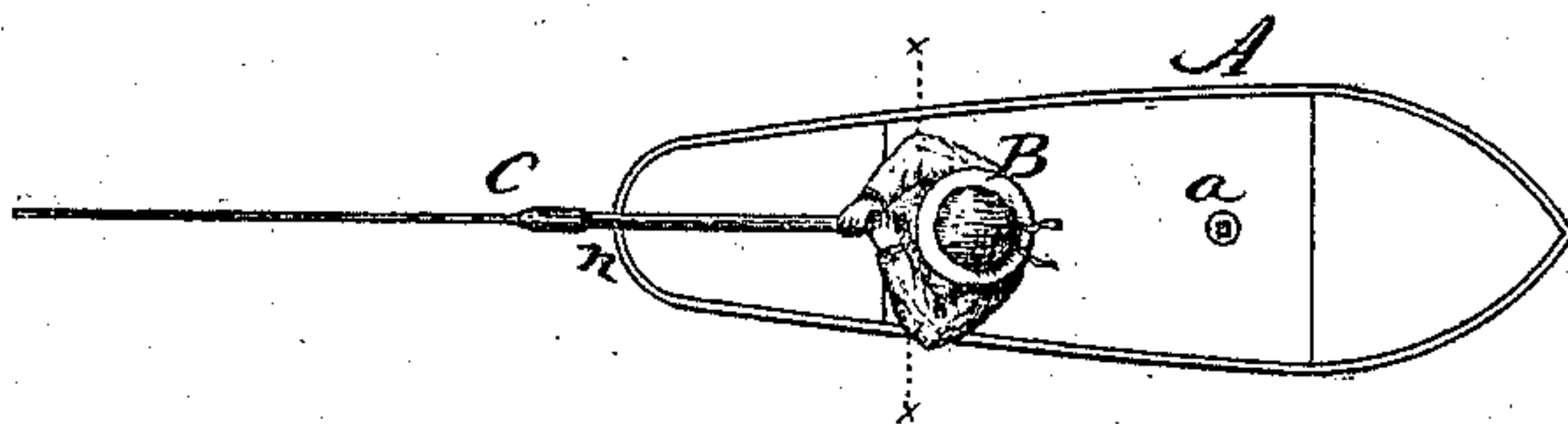
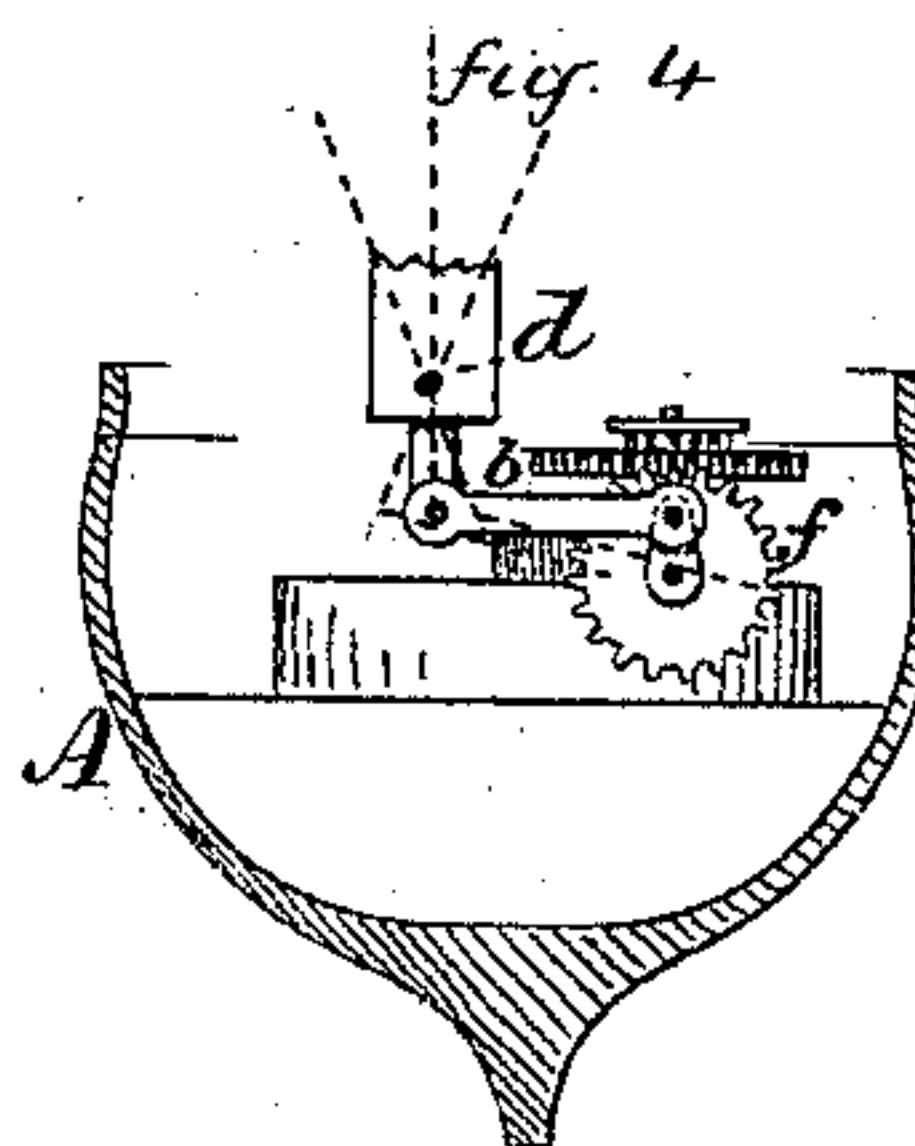


fig. 3.



fig. 4.



Witnesses.

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JOSEPH W. PILKINGTON, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN TOY BOATS.

Specification forming part of Letters Patent No. 133,250, dated November 19, 1872.

To all whom it may concern:

Be it known that I, JOSEPH W. PILKINGTON, of Bridgeport, in the county of New Haven and State of Connecticut, have invented a new Improvement in Toy Boats; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a side view; Fig. 2, a top view; Fig. 3, a rear view; Fig. 4, a transverse section on line *x x*, looking forward; and in Fig. 5, a longitudinal section of the oar.

This invention relates to a toy boat; the object being the arrangement of an oar at the stern of the boat combined with a vibrating figure, which, operating by clock-work, causes a sculling motion to be given to the oar for the propulsion of the boat. The invention consists, first, in a boat having a figure arranged to vibrate across the boat by means of suitable clock-work combined with an oar pivoted at the stern and in connection with the figure, so that the vibrations of the said figure are imparted to the oar, which extends down so as to work in the water to cause the propulsion of the boat; second, in arranging the blade of the oar upon the handle so that the blade may be turned to the right or left to give direction to the boat.

A is the boat, of any desirable external form, within which is arranged common toy clock-work, as seen in Fig. 4, the spring of which may be wound by means of the stem *a* extending through the deck or at other convenient point. B is the figure representing an oarsman, pivoted as at *d*, or at other convenient point, and in connection with the clock-work by a connecting-rod, *b*, and crank-wheel *f*, or otherwise, so that the said clock-work will cause the figure to swing to the right and

left, as denoted in Figs. 3 and 4. C is the oar, pivoted at the stern of the boat, as at *n*, Figs. 1 and 2, the handle of the oar extending up to the figure and the blade downward, so as to enter the water, as in Figs. 2 and 3; hence, the vibration of the figure B causes a corresponding vibration of the oar in the opposite direction, at the same time imparting a rolling motion to the oar, substantially as by a person sculling, which will cause the boat to move forward on the water. The blade, being flat and arranged so as to be in a vertical plane when in the center, as in Fig. 2, will cause the boat to move in a straight forward line. In order that this movement of the boat may be changed, I construct the oar as seen in Fig. 5, D being the handle, and E the blade. The one is fitted with a sleeve so as to be set upon the other, fitting closely, yet so that the blade may be turned to the right or left, the longitudinal central line of the oar being the axis on which the blade turns; thus, if the boat is designed to be turned in one direction the blade of the oar must be set accordingly, and in the other direction reversed. The greater the inclination of the blade the shorter the curve in which the boat will run.

I claim as my invention—

1. A toy boat provided with suitable clock-work, and having combined therewith a figure vibrating transversely across the boat, and an oar pivoted to the stern of the boat extending from the said figure to the water, substantially in the manner and for the purpose set forth.

2. An oar consisting of the handle D and blade E, united substantially in the manner described, so that the blade may be adjusted to different angles, as and for the purpose described.

JOSEPH W. PILKINGTON.

Witnesses:

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