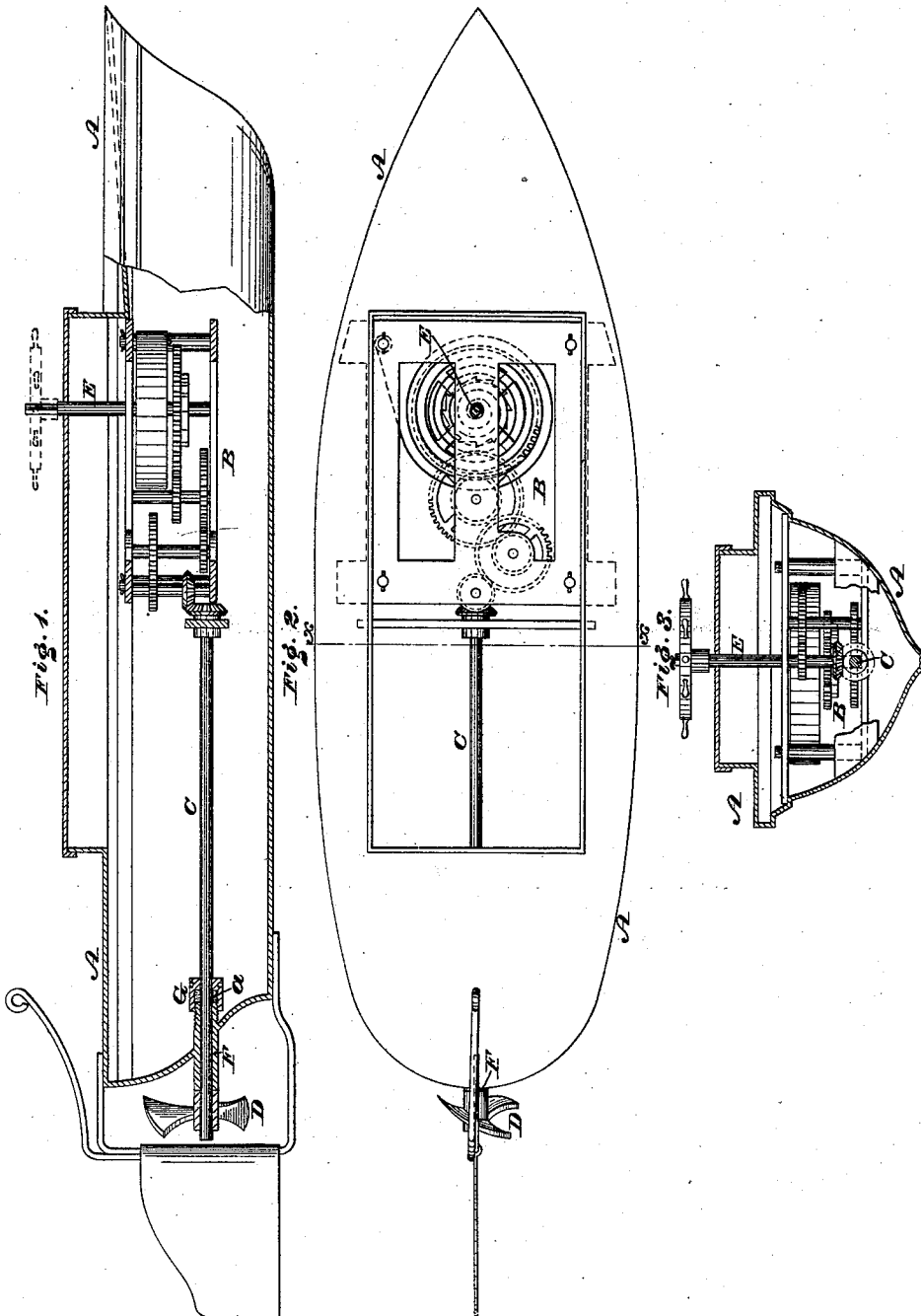


(No Model.)

W. A. WRIGHT.
TOY BOAT.

No. 301,846.

Patented July 8, 1884.



WITNESSES:

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TOY BOAT.

SPECIFICATION forming part of Letters Patent No. 301,846, dated July 8, 1884.

Application filed December 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. WRIGHT, a citizen of the United States, residing at Centreton, in the county of Burlington, State of New Jersey, have invented a new and useful Improvement in Toy Boats, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a partial side elevation and partial vertical section of a toy boat embodying my invention. Fig. 2 is a top or plan view thereof. Fig. 3 is a transverse section thereof in line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a toy boat having a mechanically-operated propeller.

It also consists in providing the propeller-shaft with a stuffing-box for preventing the entrance of water into the boat.

Referring to the drawings, A represents a toy boat, within which is supported clock-work B, the power of the spring whereof is exerted through proper gearing on the shaft C, to which the propeller D is fixed at the stern of the boat.

E represents the winding-post of the clock-work, the same passing vertically through the deck, which is raised to present the appearance of a deck, and forms the upper bearing of the post. The propeller-shaft extends horizontally and longitudinally from the clock-work, and projects through the stern of the boat, the wheel or propeller being secured to the rear end of said shaft.

F represents a boss, which is secured to the stern of the boat and extends into the boat and forms a bearing for the propeller-shaft at the stern. The inner end of said boss F is threaded, and to the same is screwed a stuffing-box, G, through which the shaft also passes, said box having suitable packing, *a*, the compression of which is adjusted by the stuffing-box. The spring of the clock-work is properly wound and the boat placed in water. As the spring unwinds, its power is imparted to the shaft C, and consequently to the propeller, which, rotating, moves the boat, as is evident, the water acting as a retarding device, and preventing the propeller from running away. The only opening in the boat below the water-line is the one at the stern for the propeller-shaft; but owing to the stuffing-box water is pre-

vented from entering and filling the boat thereat, and rusting the machinery or clock-work and sinking the boat. The spring of the clock-work is arranged horizontally, so that as it unwinds its coils may open or separate, especially toward the bow, which is unoccupied, and thus the spring is not obstructed as it expands. The post E is conveniently accessible at the top of the boat, and its key is shown of the form of a steering-wheel, and as a rudder and tiller are provided the interesting nature of the toy is increased.

The propeller-shaft may be arranged transversely and have secured to each end, outside of the boat, a paddle-wheel, thus forming a side-wheel boat. In this case the bevel-wheel attached to the propeller-shaft may be arranged at a right angle to that shown, and fitted to the transversely-arranged shaft, at or about the middle thereof, and a stuffing-box will be provided for each side of the boat.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A toy boat having a mechanically-operated propeller-wheel, the mechanism employed being of the order of clock-work, substantially as and for the purpose set forth.

2. A toy boat having clock-work, a shaft geared therewith, and a propeller-wheel connected with said shaft, substantially as and for the purpose set forth.

3. A toy boat having clock-work, a propeller, and propeller-shaft, the latter being connected with said clock-work, and a stuffing-box for said shaft, substantially as and for the purpose set forth.

4. A toy boat having clock-work, a shaft geared therewith, and a propeller which is connected with said shaft, the spring of the clock-work being arranged horizontally, so as to expand unobstructed, substantially as and for the purpose set forth.

5. In a toy boat having clock-work, the winding-post arranged vertically and extending through the deck, which constitutes its upper bearing, substantially as and for the purpose set forth.

WM. A. WRIGHT.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. GRANT.