

(No Model.)

G. H. POND.
BUOYANT PROPELLER.

No. 586,916.

Patented July 20, 1897.

Fig. 2.

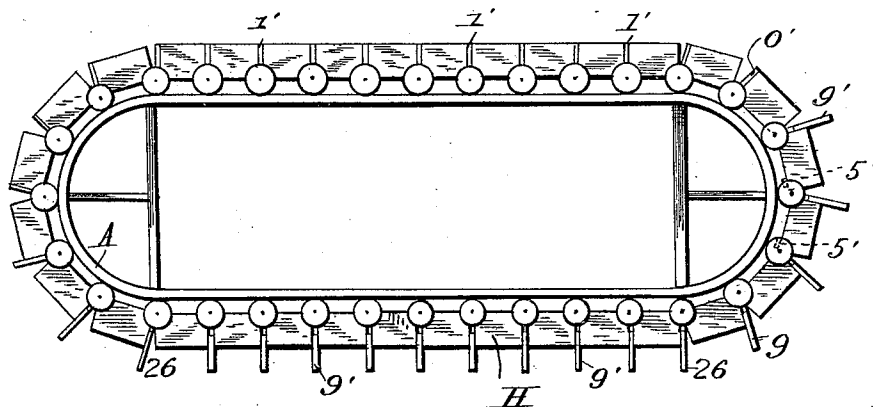


Fig. 1.

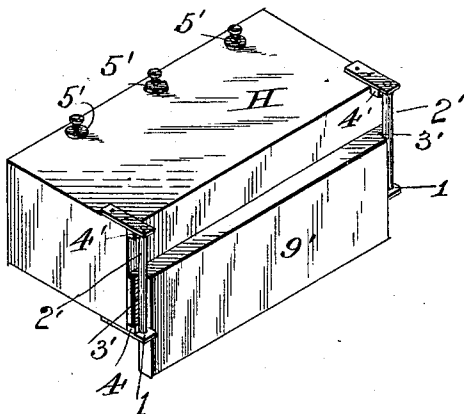
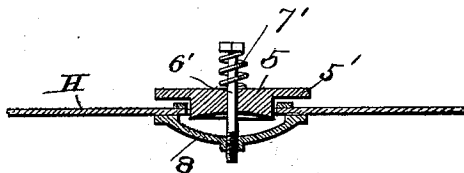


Fig. 3.



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GOLDSBURY HARDEN POND, OF ASHBURNHAM, MASSACHUSETTS.

BUOYANT PROPELLER.

SPECIFICATION, forming part of Letters Patent No. 586,916, dated July 20, 1897.

Application filed May 25, 1896. Serial No. 593,095. (No model.)

To all whom it may concern:

Be it known that I, GOLDSBURY HARDEN POND, a citizen of the United States, residing at Ashburnham, in the county of Worcester and State of Massachusetts, have invented certain Improvements in Buoyant Propellers, of which the following is a full, clear, and exact specification.

The present invention relates to improvements in buoyant propellers of the style or character for which I obtained Letters Patent November 25, 1890, No. 441,327, and for which also I have filed concurrent applications, Serial Nos. 593,093 and 593,094.

The invention consists in the novel construction and combination of parts herein-after fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a buoyant propeller provided with pontoons constructed in accordance with my invention. Fig. 2 is a perspective view of one of the pontoons. Fig. 3 is a detail view of one of the valves.

In the said drawings the reference-letter A designates the endless rails or tracks, and H the pontoons, provided with wheels upon which the rails travel. These pontoons consist of air-tight boxes provided at one end with plates 1, to which are secured rods 2', extending from top to bottom of the pontoons at a short distance therefrom. On their inner sides the said plates are provided with bumpers or buffers 4'.

The numeral 9' designates the paddles, provided at each end with projections 3', which engage and slide between the bars 2' and the sides of the pontoons.

In one side of each pontoon there are formed

a number of holes, in which are seated circular valves 5, provided with annular flanges 5'. These valves are formed with central apertures, through which pass stems 6', the lower ends of which are secured to spiders 8. The upper ends of these stems are provided with heads 9 and with coiled springs 7'.

The operation is as follows: As the pontoons are successively depressed in front by the rails traveling upon the same the paddles will drop down, so as to project below the pontoons, and thus offer a resistance to the water. After the rails have left the pontoons and the latter are elevated the paddles will fall back, so as to offer no resistance to the air.

In case any water should enter the pontoons upon the upward movement of the latter the gravity of the water will open the valves, so that it can escape.

Having thus fully described my invention, what I claim is—

1. In a buoyant propeller of the character described, the combination with the endless series of pontoons hinged together as shown, of the automatically-operating paddles connected with said pontoons, substantially as specified.

2. The combination with the pontoon the plates secured thereto, and the rods secured to said plates, of the rectangular paddle having a projection at each end sliding between said rods and the pontoon, substantially as described.

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