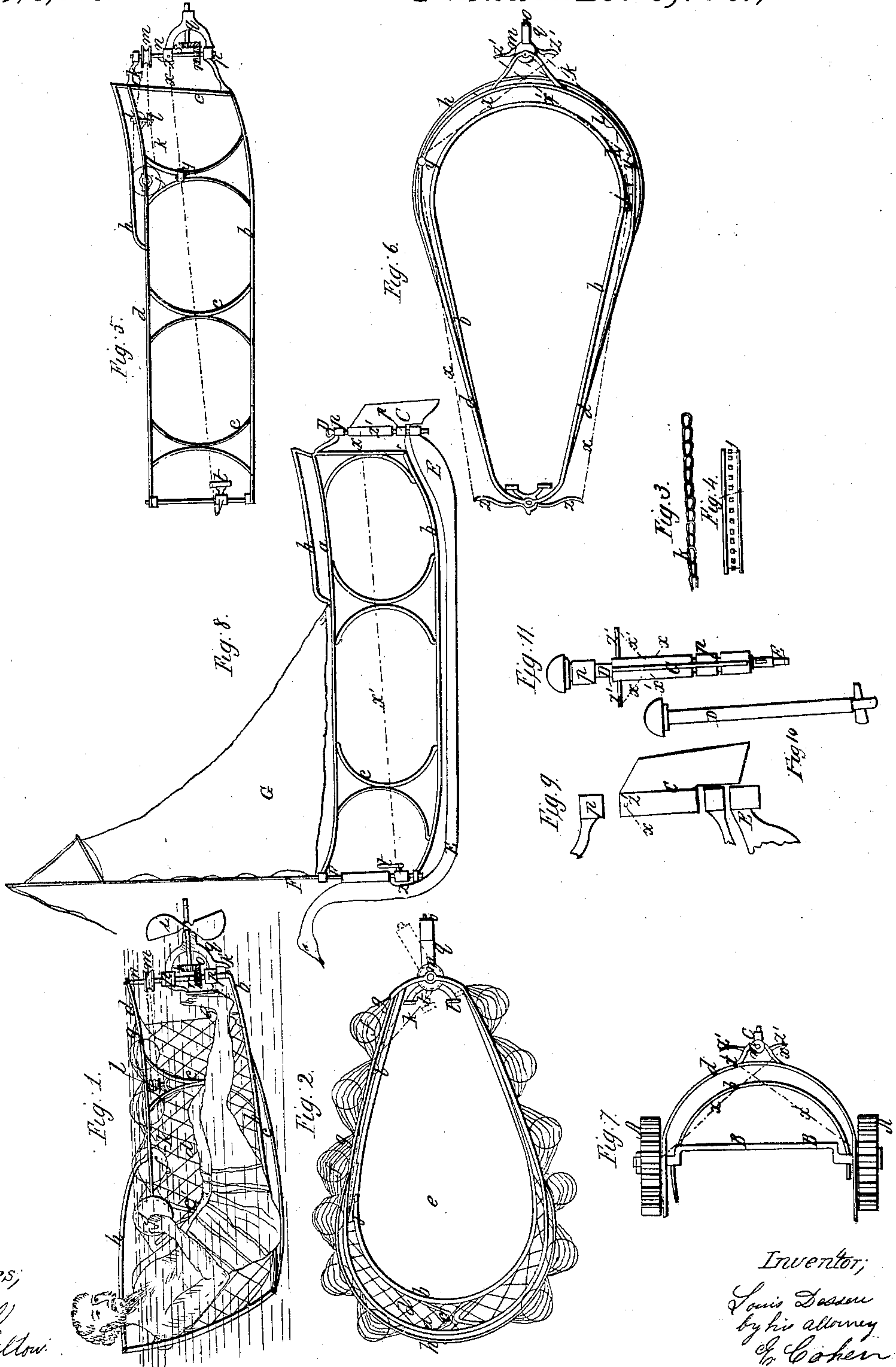


L. Desens.

Bathing Mach.

Nº 45,368.

Patented Dec. 6, 1864.



Witnesses;
W. H. Hanch
Thos. A. Walton.

Inventor;
Louis Desens
by his attorney
J. C. Cohen.

UNITED STATES PATENT OFFICE.

LOUIS DESENS, OF PARIS, FRANCE.

BATHING-MACHINE.

Specification forming part of Letters Patent No. 45,368, dated December 6, 1864.

To all whom it may concern:

Be it known that I, LOUIS DESENS, of Paris, in France, have invented a new and useful Bath or Bathing Machine Adapted for Deep Water, of which the following is a true and exact description, reference being had to the accompanying drawings and letters of reference marked thereon.

The nature of my invention consists in constructing an apparatus which, while supporting a person or persons on the surface of the water by means of air-tight balls, cork-wood, or any equivalent substance lighter than water, allows the water to pass freely through said apparatus.

a represents a frame, made of wood or metal, forming the upper part of the apparatus; *b*, the lower frame, secured to the upper by rods *c*; *d*, net-work enveloping the apparatus so that the water may freely pass through it; *e*, a sheet of strong linen supporting the person or persons bathing; *f*, air-tight balls supporting the apparatus afloat and secured to the same by means of a net-work, *g*, fastened to frame *a*; *h*, rest for the head of the person bathing.

The person bathing works the screw *i* by turning the wheel *j*, from which an endless chain, *k*, passes over a pulley, *m*, on the vertical shaft *n*, connected with the screw-shaft *o* by means of suitable gearing. The shaft *n* turns in bearings *p p*, to which are fixed two treadles, *t t*, and also the bearing of the screw-shaft. The person bathing operates the treadles with his feet one way or the other, thus turning the screw in a corresponding direction, and thereby governing the direction in which the apparatus moves. The spur *k'* is made to abut against the frame *b* when the

screw-shaft has been turned one way or the other as far as it will go, for the purpose of protecting the screw from getting entangled in the net-work.

Figure 5 represents a modification of the apparatus, the screw being arranged in the rear part of the apparatus. Fig. 7 represents another modification, the screw being replaced by two paddle-wheels, *A A*, and the rudder *C* serving to impart to the apparatus the direction desired.

The apparatus may also be propelled by means of a sail, as represented in Fig. 8. In this case the rudder *C* is held in bearings *P* by means of a spindle, *D*, which is also worked by treadles *t t*.

The net-work *d* may be replaced by a perforated structure of wood or thin metal, or any suitable material.

It will be understood that the apparatus can be made large enough to serve as a life-boat or life-preserver for a number of persons.

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

An apparatus which, while supporting a person or persons on the surface of the water by means of air-tight balls, cork-wood, or any equivalent substance lighter than water, allows the water freely to pass through said apparatus, in the manner above described.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

L. DESENS.

Witnesses:

HERMAN GOULD,
LOUIS CLAES.