

(No Model.)

P. GOLDMANN.

LIFE PRESERVING OR SWIMMING APPARATUS.

No. 516,720.

Patented Mar. 20, 1894.

Fig. 1.

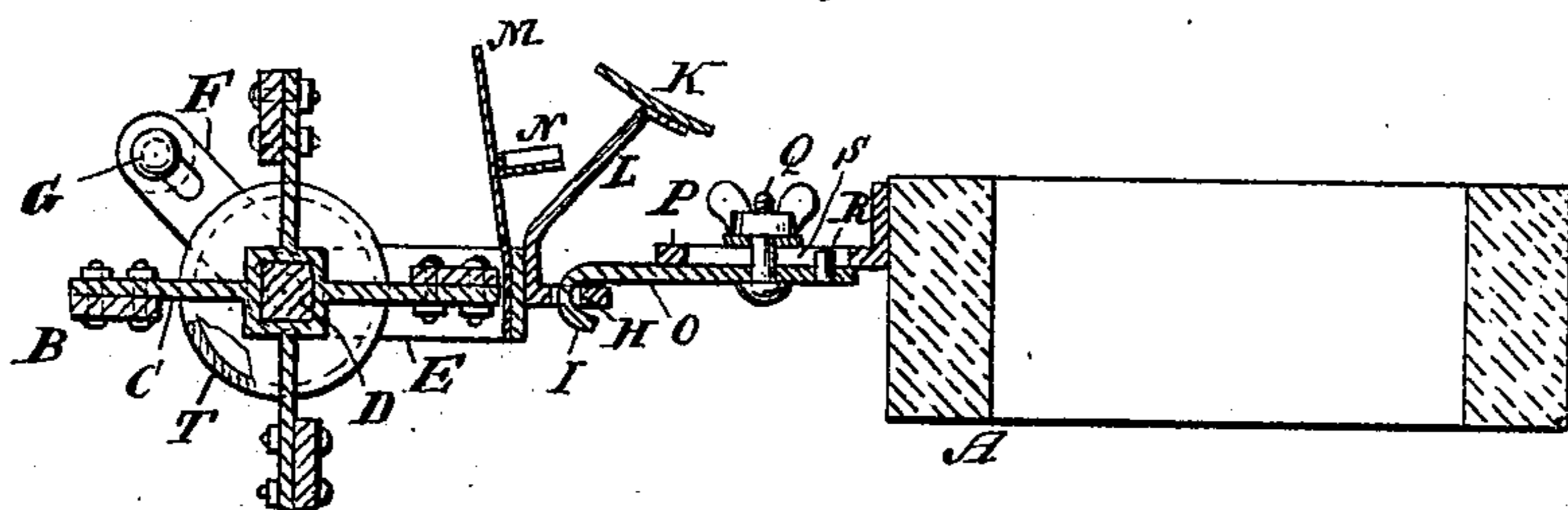


Fig. 2.

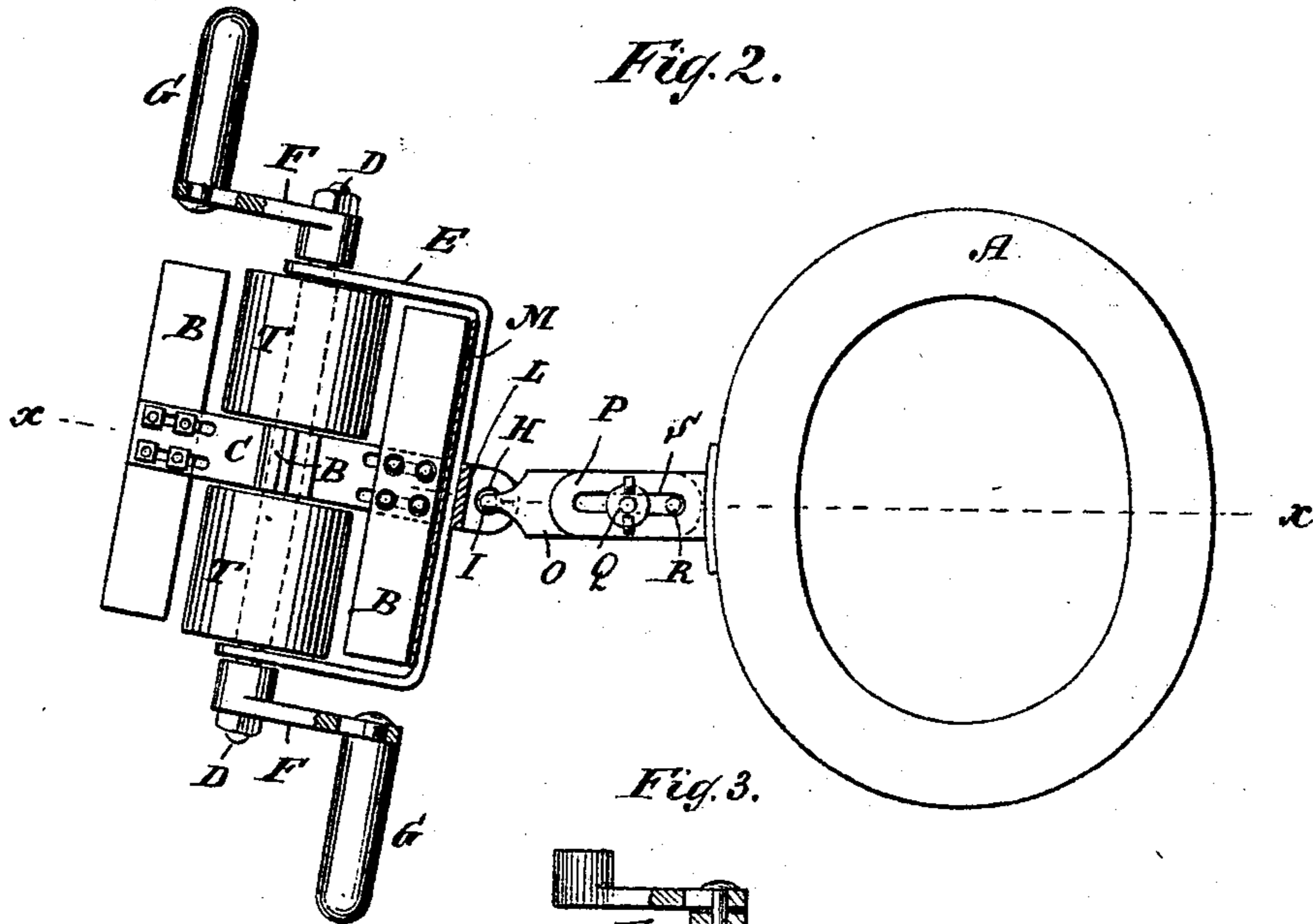
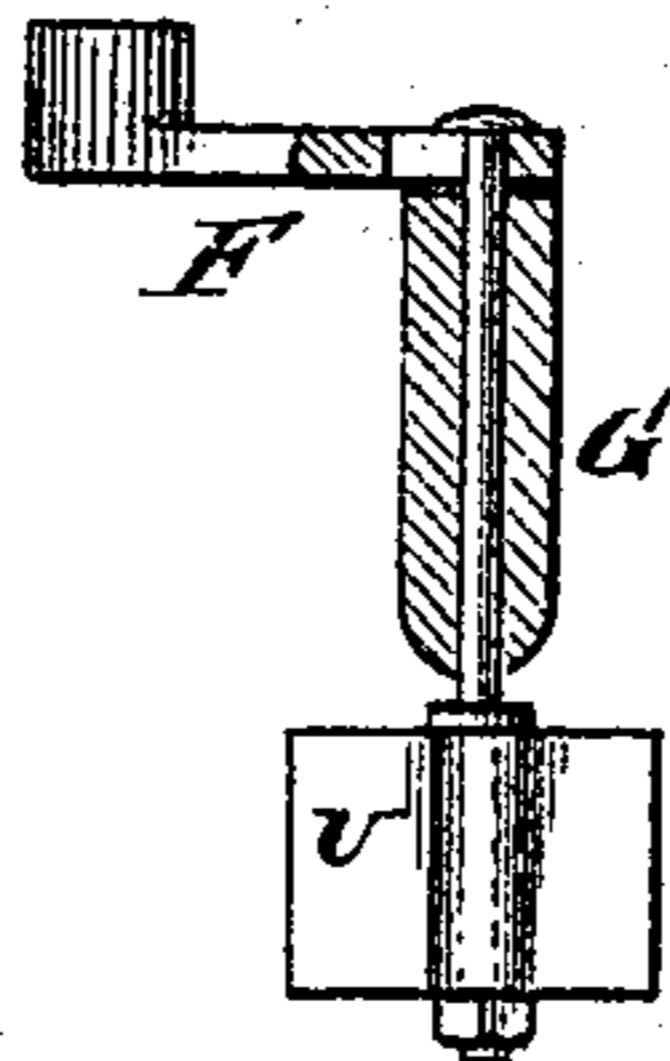


Fig. 3.



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LIFE-PRESERVING OR SWIMMING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 516,720, dated March 20, 1894.

Application filed March 23, 1893. Serial No. 467,348. (No model.)

To all whom it may concern:

Be it known that I, PHILIPP GOLDMANN, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Life-Preservers, of which the following is a specification.

This invention relates to an improvement in life preservers and the object of this invention is to enable the life preserver to be readily propelled and steered as set forth in the following specification and claims and illustrated in the annexed drawings in which—

Figure 1 is a section along xx Fig. 2. Fig. 2 is a plan view of the life preserver. Fig. 3 shows a modification.

In the drawings the letter A indicates a life preserver or float or a belt of any suitable structure to which is connected a suitable propeller or drive mechanism as for example paddles B mounted on arms C extending from shaft D journaled in frame E and having crank rods F and handles G adapted to be worked by the hands of the person sustained by the float. The frame E is connected by a joint such as eye H and hook I to the float A so that the drive mechanism can be swung laterally to serve at the same time for steering the device while propelling the latter. The chin of the person sustained by the float may be supported on the chin rest K, mounted on an arm L extending from frame E. A shield or face protector M on frame E will keep the water from being thrown by the propeller or blades B into the face of the person sustained by the float. A shelf or support N on the shield M can be made to support an article such as a cigar. The blades or paddles B are shown connected to the arms C by adjustable connections such as screw and slot connections so that the blades can be adjusted radially, or to and from the center or shaft D and the handles G are also similarly adjustable, being joined by slot or adjustable connections to rods F.

The hook I enables the propeller to be readily disconnected from the float when desired. The hook I is shown formed on an arm composed of two sections O P held steadily together by a bolt or screw Q and pin R engaging the slot S. The screw and slot connection Q S enables the propeller or handles

G to be set nearer to or farther from the float as required by different persons.

The shaft D is shown provided with floats or hollow cylinders T on each side of the arm C and which floats keep the propeller mechanism above water. The propeller parts as far as possible should be made of wood or some hollow or light material of sufficient strength so that the propeller will float.

In place of the bar O P a flexible connection such as a cord or strap provided with a hook or attachment I might be provided.

The propeller with its floats T might be attached to the body of the person by a strap or belt if desired and the float A omitted as the propeller is buoyant enough to remain over water. The arm L supporting the chin rest K might be made in sections united by screw and slot connection so as to be adjustable in any well known way. The chin rest K instead of being on the propeller might of course be applied to the float or at any suitable support. To gain additional force the handles G might be provided with ropes or cords having stirrups for the feet of the person sustained so that the feet can aid the hands in turning the cranks. Blades U can also be attached outside of the handles G as seen in Fig. 3 to aid the blades B in propelling.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a life preserver or float, of a laterally swinging frame having a jointed connection with one side of the float, a propeller carried by the jointed frame, and propeller driving mechanism mounted on said frame, substantially as described.

2. The combination with a life preserver or float, and a frame connected therewith and carrying a propeller, and propeller driving mechanism, of a chin rest K located on the frame between the propeller and the life preserver or float, substantially as described.

3. The combination with a life preserver or float, and a frame connected therewith and carrying a propeller, and propeller driving mechanism, of a face shield or protector M mounted on the frame between the propeller and the life preserver or float, substantially as described.

4. The combination with a life preserver or

float, of a frame connected therewith and carrying a propeller, and propeller driving mechanism, of a face shield or protector M mounted on the frame between the propeller and the life preserver or float and provided with a laterally projecting shelf N, substantially as described.

5 The combination with a life preserver or float, of a laterally swinging frame having a jointed connection with one side of the float, and a propeller having a shaft mounted on the frame and provided with blades adjustable radially to and from the said shaft, substantially as described.

15 6. The combination with a life preserver or float, of a laterally swinging frame having a jointed connection with the float, and a propeller mounted on the frame and having radially adjustable blades, and a shaft provided with radially adjustable crank handles, substantially as described.

20 7. The combination with a life preserver or float, of a laterally swinging frame having a detachable connection with one side of the float, and a propeller mounted on the said frame and having propeller driving mechanism, substantially as described.

8. The combination with a life preserver or float, and a frame carrying a propeller mechanism, of an arm composed of two adjustably connected sections, one of which is secured to the life preserver or belt, and the other one of which is jointed to the frame of the propeller mechanism, substantially as described.

9. The combination with a frame having a propeller shaft, of a float mounted on the propeller shaft, and propeller blades connected with the shaft in juxtaposition to said float, substantially as described.

10. The combination with a propeller or drive mechanism of a belt or connection to which said propeller is jointed to serve for a driving and steering mechanism, said belt being adapted for connection to the person, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

PHILIPP GOLDMANN.

Witnesses:

WM. C. HAUFF,

E. F. KASTENHUBER.