No. 661,457. Patented Nov. 6, 1900.

G. PLUMMER.

LIFE PRESERVER.

(Application filed May 5, 1900.)

(No Model.)

Fig. 1.

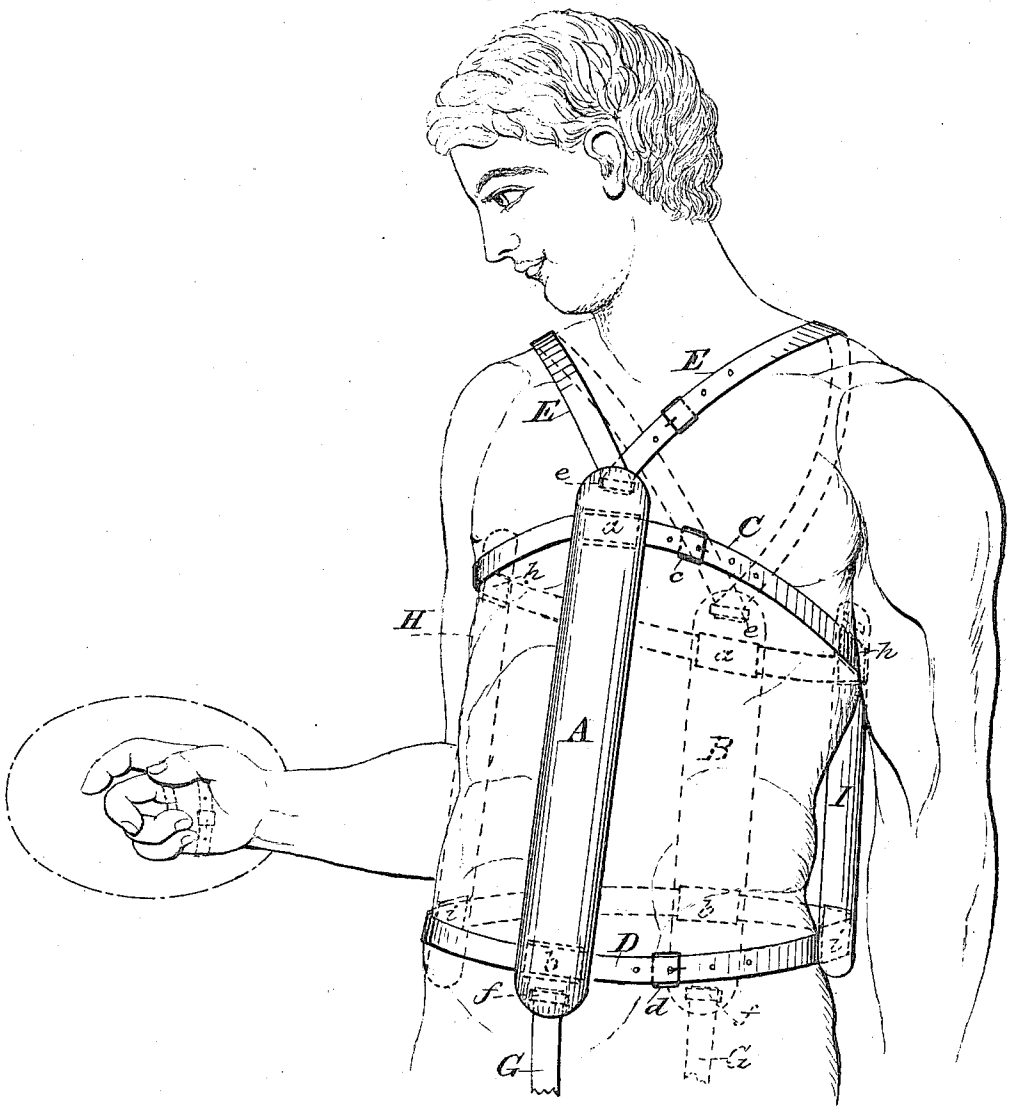


Fig. 4.



Fig. 2.

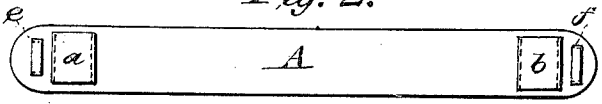
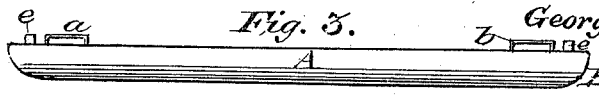


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE PLUMMER, OF BOSTON, MASSACHUSETTS.

LIFE-PRESERVER.

SPECIFICATION forming part of Letters Patent No. 661,457, dated November 6, 1900.

Application filed May 5, 1900. Serial No. 15,605. (No model.)

To all whom it may concern:

Be it known that I, GEORGE PLUMMER, a citizen of the United States, residing at Boston, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Universal Life-Saving and Swimming Apparatus; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in life-saving and swimming apparatus.

The object of the invention is to produce a universal life-saving and swimming apparatus that can be readily used by men and women without inconvenience; also, that can be easily adapted or adjusted to corpulent or lean, tall or short persons; also, that can be produced at a comparatively small expense; also, that can be quickly and easily attached and detached from a person; furthermore, that is not liable to get out of order and is always ready for use; also, that can be packed in a very small space, and, finally, that aids in the buoyancy as well as the swimming operation.

With these objects in view my invention consists in the peculiar construction of certain details and the novel arrangement of parts, as will be more fully described hereinafter and specifically pointed out in the claim, reference being had to the accompanying drawings and the letters thereon.

Like letters indicate similar parts in the different figures of the drawings, in which—

Figure 1 represents a view of a man with my improved apparatus in position. Fig. 2 is a rear view of one of the tubes employed. Fig. 3 is a side view of the same. Fig. 4 is an end view of Fig. 3.

In the drawings, A is the front tube, rounded at each end and flat on the side lying against the body and having a semicircular exterior side. It extends from the upper part to the lower part of the body. A similar tube B extends down the back in similar manner. These tubes, which I term the "main" or "body" tubes, are provided with cleats *a* and *b* at their upper and lower ends, through which the belts or straps C and D pass, encircling the body. They can be adjusted by the buckles *c d* to bodies of different statures. A belt E passes through the cleats *e e* at the upper end of the tubes A B and extends over the shoulders, similar to suspenders, and thus suspends said tubes. Another belt G is passed through cleats *f f* at the lower end of the tubes, extending under the crotch, and holds them in vertical position. It is also provided with buckles for adjusting it.

On each side of the body are placed somewhat shorter tubes H I, that I term the "arm" tubes, which extend from under the arm to near the hips. These tubes are similarly provided with cleats *h i* at top and bottom, through which the belts C D also pass, thus securing all the tubes to the body. The tubes can be lined or padded where they come in contact with the body for comfort. The said tubes may be made of light copper, tin, aluminium, or other similar material and of any desired size and plain or ornamental. In connection with these tubes and belts the leg attachments with pivoted fins, as also the hand-paddles shown and described in the applications having the Serial No. 735,828, of 1899, and Serial No. 10,649, of 1900, respectively, filed by me, may be used for propelling the body through the water, so as not only to float on the water, but to pass through it in a rapid manner.

The belts may be made of leather, canvas, or other suitable material, and the tubes can be painted, galvanized, or plated, if desired.

If desired, snap-hooks and rings may be used on the belts instead of the buckles.

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

In a life-saving and swimming apparatus, the combination of the single tube A, and the tube B, arranged at the center of the front and back of the body, connected by shoulder-straps E, and bottom strap G, with the tubes H and I, arranged on the sides of the body under the arms, and connected to said tubes A, B, by straps C, D, in the manner shown and specified.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE PLUMMER.

Witnesses:

G. PERCY MCGLUE,

GEORGE T. MCGLUE.