

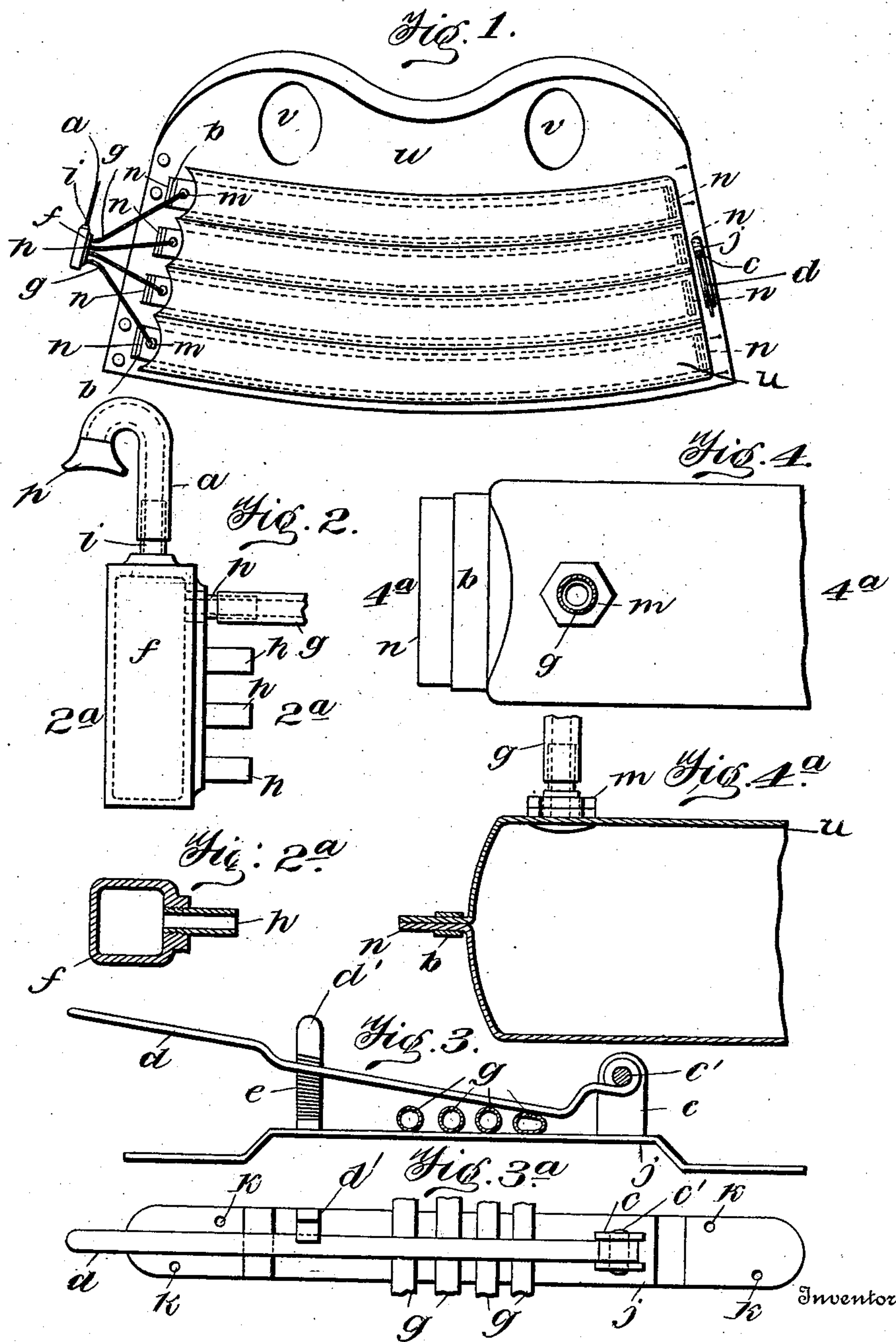
No. 685,195.

Patented Oct. 22, 1901.

H. ANDRESEN.  
LIFE PRESERVER.

(Application filed Oct. 20, 1900.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

HANS ANDRESEN, OF FLENSBURG, GERMANY.

## LIFE-PRESERVER.

SPECIFICATION forming part of Letters Patent No. 685,195, dated October 22, 1901.

Application filed October 20, 1900. Serial No. 33,732. (No model.)

*To all whom it may concern:*

Be it known that I, HANS ANDRESEN, mechanic, a subject of the Emperor of Germany, residing in Flensburg, Germany, have invented an Improvement in Life-Saving Apparatus, of which the following is a specification.

This invention relates to life-saving belts or garments; and it has for its object to provide a belt or garment which can be readily secured upon the person and quickly and easily inflated or deflated and which shall be cheap and simple in construction.

With this object in view the invention consists of the improved construction, arrangement, and combination of parts composing a belt or garment of this class, as will be hereinafter fully described and afterward specifically claimed.

In the accompanying drawings, Figure 1 is an elevation of a device constructed in accordance with my invention, the inflating-tubes being shown diagrammatically. Fig. 2 is a view, on an enlarged scale, of the inflating air-chamber and connections. Fig. 2<sup>a</sup> is a sectional view on the dotted line 2<sup>a</sup> 2<sup>a</sup> of Fig. 2. Fig. 3 is a view in elevation of the tube-closing device or clamp. Fig. 3<sup>a</sup> is a plan view thereof. Fig. 4 is a plan view, on a further enlarged scale, of one end of one of the air cells or cylinders. Fig. 4<sup>a</sup> is a sectional view thereof on the broken line 4<sup>a</sup> 4<sup>a</sup> of Fig. 4.

Like letters of reference mark the same figures of the drawings.

In Fig. 1 I have represented the complete device with the inflating-tubes shown only in diagram, and reference to this figure will show the belt or garment marked *w* and provided with arm-holes *v*. The main body of the belt may be made of any suitable material of a sufficient length to reach substantially around the body of the user.

The air cells or cylinders (indicated at *u*) may be sections of ordinary hose or other suitable flexible and air-tight tubing, and they are inserted into suitable pockets formed on the body of the belt, extending longitudinally thereof. These air-cells are slightly less in length than the body of the belt and are closed at their ends *n* by metal strips *b*, bent around said ends and clenched or hammered together. Near one end of each air cell or cylinder is a

nipple *m*, upon each of which is attached one end of a flexible tube *g*, the opposite end of which is attached to a similar nipple *h*, projecting from one side of an air-chamber *f*, from one end of which air-chamber projects a similar nipple *i*, to which is attached a flexible tube *a*, long enough to reach the mouth of the user of the belt and provided with a suitable mouthpiece at its end, as indicated at *p* in Fig. 3. Secured upon the opposite end of the belt, beyond the ends of the air-cylinders, is a clamp or tube-closing device comprising a metal plate *j*, attached by sewing or otherwise through holes *k*, a projecting lug *c*, to which is pivoted on a pin *c'* a lever *d*, and a second lug *d'*, projecting from plate *j* and provided with teeth *e* on one side. When the belt or garment is upon the body, the tubes *g* may be passed under lever *d*, as clearly shown in Figs. 3 and 3<sup>a</sup>, and the lever pressed down upon them and secured by engagement with one of the teeth *e*, thus serving the function of a buckle or clasp to hold the belt or garment in position on the body. When it is desired to inflate the air-cells, the lever *d* is released from engagement with the teeth *e* and the cells inflated by blowing through tube *a*, air-chamber *f*, and tubes *g* into the cells, when the lever *d* will again be pressed down upon the tubes *g* and engage with one of the teeth *e*, now fulfilling the double function of hermetically sealing the cells and of holding the belt or garment upon the body.

It will be observed that all of the cells may be simultaneously inflated, and although only a single clamp-lever is used to close all of the cells the rupture of one or more of them would not impair the efficiency of the others, and the belts would still remain in a corresponding degree buoyant and useful for its usual purposes.

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

1. A life-preserver belt comprising a main body, air-cells secured thereon longitudinally and closed at both ends, an air-chamber, a supply-pipe leading therefrom, a series of flexible tubes connecting the air-chamber with the air-cells near one end, and a clamping device secured to the belt at the opposite

end of the cells adapted to inclose the inflating-tubes and also serve as a buckle or clasp for the garment, substantially as described.

2. In a life-preserver belt the combination  
5 with the main body thereof, of a series of air-cells secured longitudinally therein and closed at both ends, an air-chamber, an air-supply pipe leading therefrom, flexible inflating-tubes connecting the air-chamber with  
10 the air-cells near one end, a metal plate secured to the body of the plate near the opposite ends of the cells, a lever pivoted there-

to and a toothed lug projecting from the plate, the lever being adapted to clamp the inflated tubes and to be secured by engagement with the teeth of the lug, substantially  
15 as and for the purposes set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

HANS ANDRESEN.

Witnesses:

GUSTAV HERMES,  
GUSTAV BUDACH.