

July 23, 1929.

D. J. KENNEDY

1,721,739

BREAST PROTECTOR

Filed Feb. 17, 1928

2 Sheets-Sheet 1

Fig. 1.

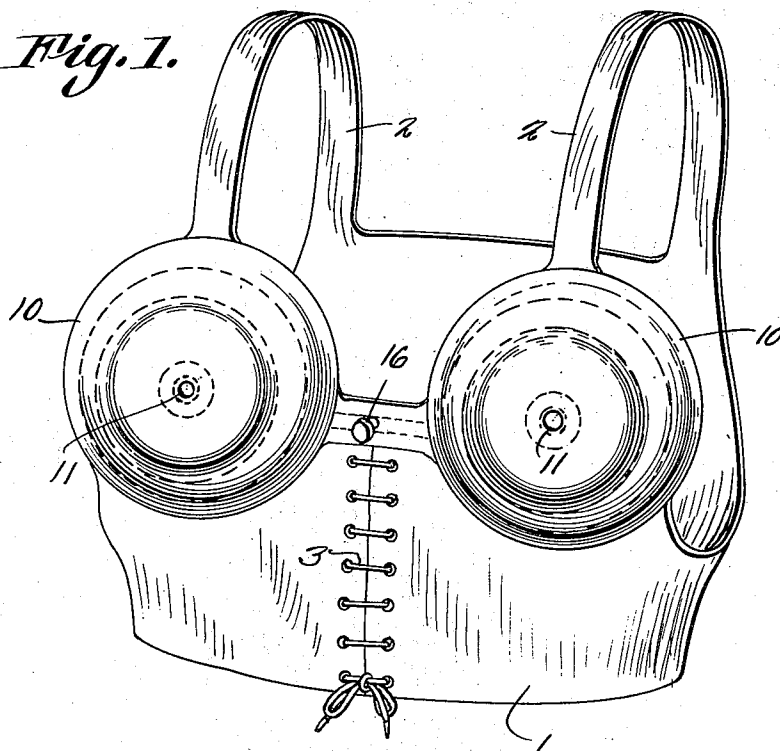
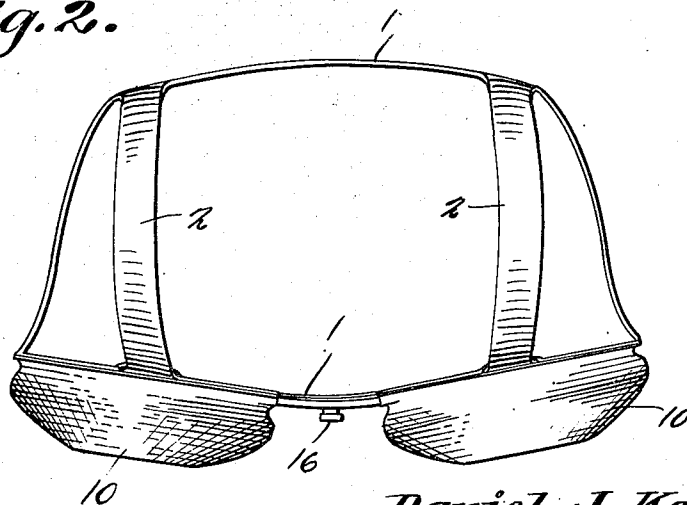


Fig. 2.



Daniel J. Kennedy
Inventor

By *C. A. Snow & Co.*
Attorneys.

July 23, 1929.

D. J. KENNEDY

1,721,739

BREAST PROTECTOR

Filed Feb. 17, 1928

2 Sheets-Sheet 2

Fig. 3.

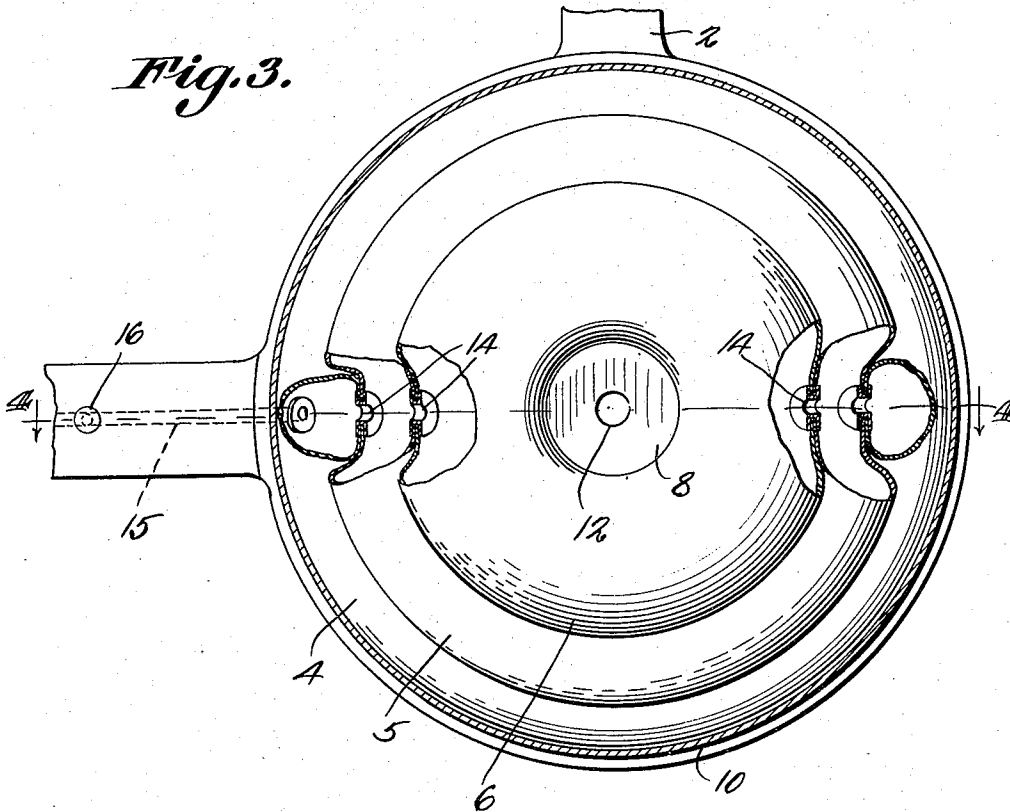
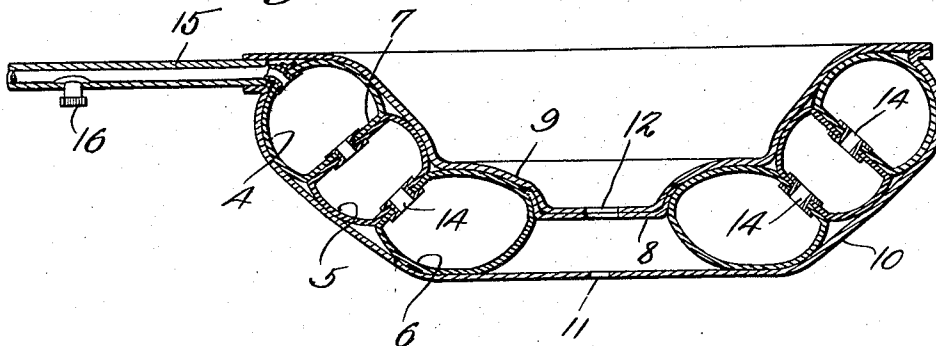


Fig. 4.



Daniel J. Kennedy
Inventor

By *Calnow & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

DANIEL J. KENNEDY, OF YONKERS, NEW YORK.

BREAST PROTECTOR.

Application filed February 17, 1928. Serial No. 255,032.

This invention aims to provide a simple but effective means for protecting the breasts of a female against injuries resulting from athletic sports or other hazards in which the organs mentioned are likely to be bruised or otherwise hurt.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings:—

Figure 1 shows in perspective, a device constructed in accordance with the invention;

Figure 2 is a top plan;

Figure 3 is an elevation wherein parts are broken away and in section; and

Figure 4 is a section on the line 4—4 of Figure 3.

In carrying out the invention there is provided a support 1 which may be a vest or the like, supplied with shoulder straps 2. The front of the vest may be closed with a lacing cord 3 or any other common means adapted for that purpose.

There is provided two groups of annular tubes 4, 5 and 6, of progressively decreasing diameters, and arranged in conical form, each of the tubes being connected to an adjoining tube, as shown at 7 in Figure 4. Across the opening through the center of the outermost tube 6 there extends a flexible diaphragm 8. The diaphragm 8, like the tubes 5, 6 and 7, may be made of rubber. The tubes are located between an inner cover member 9 and an outer cover member 10, which may be made of leather or any other suitable substance, the covers 9 and 10 being connected at their edges. The cover member 9 fits into the concavity of the group of tubes, as shown in Figure 4, and the outer cover member 10 follows the convexity of the group of tubes,

as shown in Figure 4. That part of the outer cover member 10 which extends across the central opening of the tube 6 is provided with a small opening 11, and the corresponding portion of the inner cover member 9, and diaphragm 8, are supplied with registering openings 12. Two groups of tubes, constructed as above described, are provided, and the largest or base tubes are united by a connection 15, in the form of a tube, the connection 15 being provided with an inflating valve 16. There are small tubular connections 14 between each tube and the adjoining tubes, the connections being arranged diametrically opposite to each other, as shown in Figure 3 of the drawings.

In case of a blow, the air will be displaced somewhat slowly from one of the tubes 4—5—6 into an adjoining tube, and the cushioning effect of the tubes will be promoted accordingly. Owing to the provision of the openings 11 and 12, air can circulate freely within the concavity of the inner cover member 9, and the necessary ventilation will be afforded. The device is so constructed that it will withstand blows, and prevent injury to organs which are not well adapted to stand bruising.

What is claimed is:—

1. A breast protector comprising two groups of inflatable tubular rings, the rings of each group being of successively decreasing diameters and being arranged in the form of a cone, an air-conducting connection between the groups of rings, and reduced connections between the rings of each group and retarding the passage of the air from ring to ring in the same group when the rings are compressed under a blow or thrust.

2. A breast protector comprising a group of inflatable tubular rings of successively decreasing diameters, the rings being arranged in the form of a cone, reduced connections between the rings and retarding the passage of air from ring to ring when the rings are compressed under a blow or thrust, the rings being enclosed within a covering, which has reduced perforations communicating with the central space within the smallest ring.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

DANIEL J. KENNEDY.