Z. KOZA.

PARACHUTE.

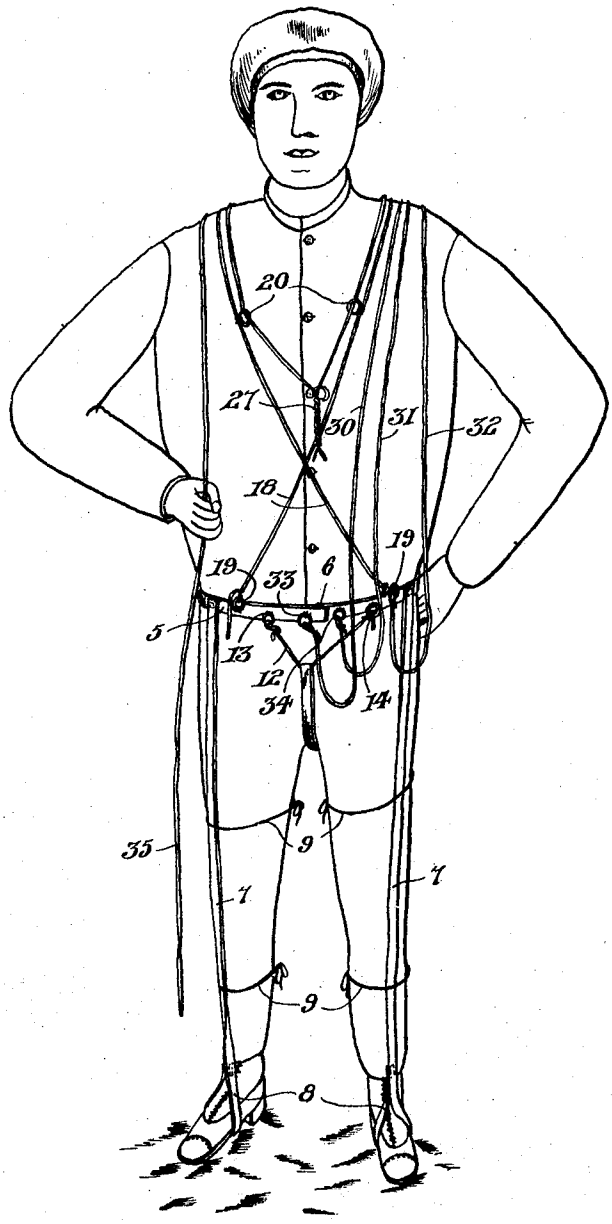
APPLICATION FILED OCT. 23, 1919.

1,349,513.

Patented Aug. 10, 1920.

3 SHEETS—SHEET 1.

FIG. 1.



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3 SHEETS—SHEET 2.

FIG. 2.

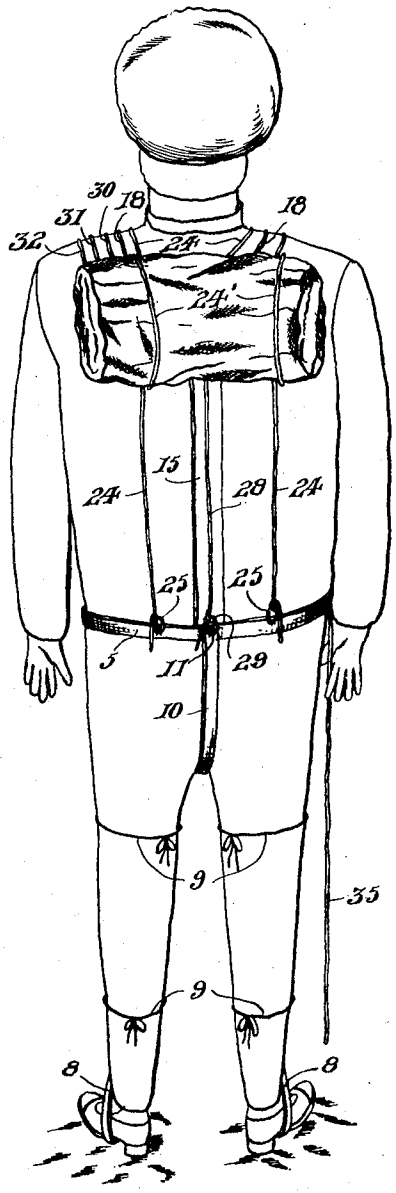
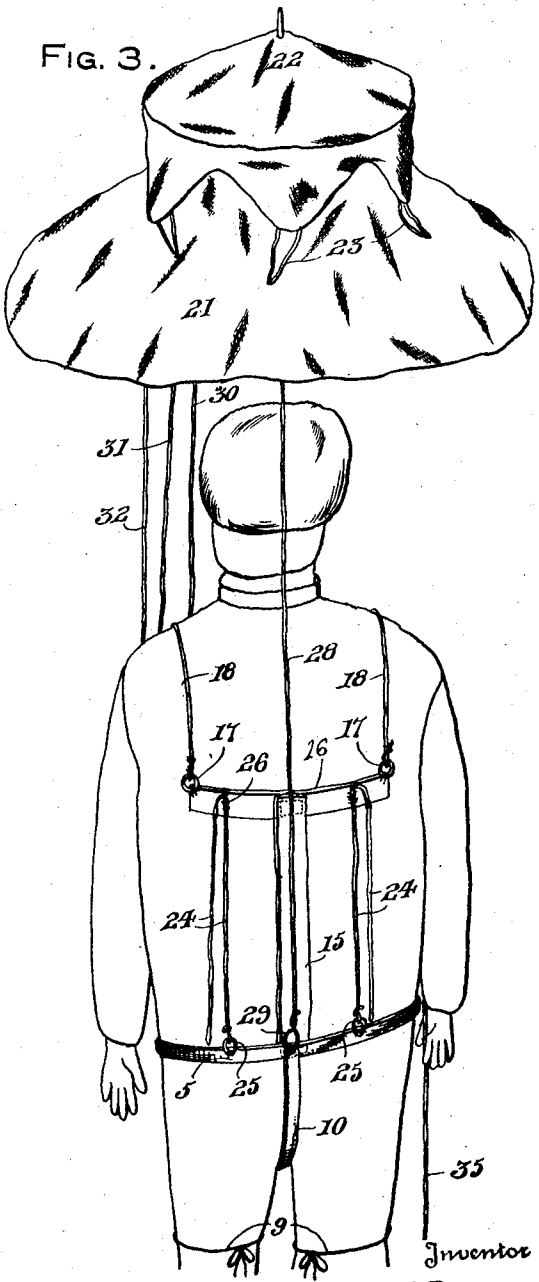


FIG. 3.



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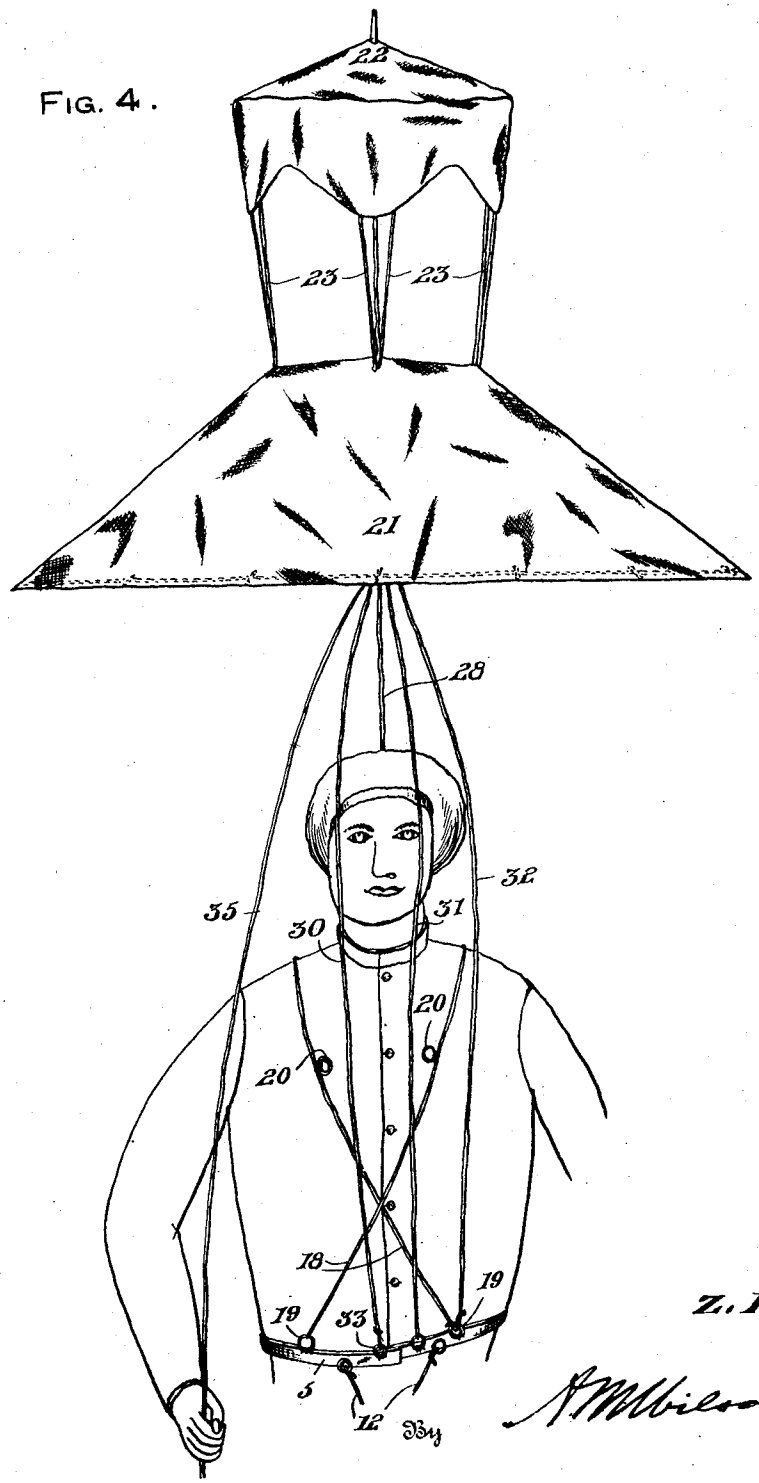
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3 SHEETS—SHEET 3.

FIG. 4.



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UNITED STATES PATENT OFFICE.

ZUZANA KOZA, OF AKRON, OHIO.

PARACHUTE.

1,349,513. Specification of Letters Patent. Patented Aug. 10, 1920.

Application filed October 23, 1919. Serial No. 332,655.

To all whom it may concern:

Be it known that I, ZUZANA KOZA, a citizen of Jugo-Slavia, residing at Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Parachutes, of which the following is a specification.

The primary object of the present invention resides in the provision of a parachute adapted to be carried by a body harness and worn by a person while traveling through the air so that should it be necessary to leave a flying machine, the parachute will be in position on the body whereby the same may be easily set in its open operative position to retard the sudden descent to the ground of a person.

With the above and other objects in view, this invention consists in the novel form, combination and arrangement of parts herein fully described, and shown in the accompanying drawings, wherein like reference characters indicate similar parts throughout the several views.

In the drawings,

Figure 1 is a front elevational view of the parachute body harness in position upon a figure.

Fig. 2 is a rear elevational view thereof showing the parachute in folded position,

Fig. 3 is a rear elevational view with the parachute partially distended and

Fig. 4 is a front elevational view of the parachute in its fully open position and carried by the body harness.

Describing the invention more in detail, there is illustrated a body harness including a waist band 5 connected at its ends as at 6 in front of the wearer, leg straps 7 being carried at opposite sides of the belt 5 and being provided with loops 8 upon the lower ends thereof for positioning upon the feet of the wearer as indicated in Figs. 1 and 2, the leg straps being held in position adjacent the legs of the wearer by cords 8 encircling the legs at points above and below the knee. A crotch strap is connected to the belt at the point 11 in rear of the wearer and extending forwardly between the legs is retained in position by the cord 12 adjustably connected at its ends to the rings 13 and 14 carried by the front sides of the belt 5. A back strap 15 is connected at its lower end to the belt 5 at the point 11 and carries at its upper end a transversely extending shoulder strap 16 as illustrated in Fig. 3. In order to hold the shoulder strap 16 in the position shown in Fig. 3, there are provided end rings 17 carried by opposite ends of the shoulder strap 16 and having connected thereto shoulder cords 18 passing over the shoulders as indicated in Fig. 2 and crossed at the front side of the body of the wearer as shown in Figs. 1 and 4 with the ends thereof adjustably connected to rings 19 on the belt 5 at opposite sides of the connection 6 with the portions of the cord 18 adjacent the chest of the wearer carrying rings 20.

The parachute associated with the body harness above described includes a main parachute section 21 having a smaller super parachute 22 connected thereto by cords 23 while the parachute sections 21, 22 when in inoperative position are carried upon the back of the wearer as indicated in Fig. 2, the same being retained in position thereon by cords 24 connected to the rings 25 carried by the belt 5 at opposite sides of the connection 11, the cords 24 being secured to the shoulder strap 16 at the points 26 and passing over the folded parachute sections 21 and 22 as at 24′ with the free ends thereof passing over the shoulders and through the rings 20 carried by the front crossed cords 18 as shown in Fig. 1, with the ends of the cords 24 loosely twisted as at 27 for detachably retaining the parachute in position. The parachute section 21 is connected to the waist band 5 by a single rear strap and three front straps, the rear strap 28 being connected at its lower end to the ring 29 centrally of the belt 5 while the upper end of said cord is suitably connected to the parachute section 21. The front cords 30, 31 and 32 are connected respectively to rings 33, 34, and 19 carried by the front side of the belt 5 while the upper ends of the cords 30, 31, and 32 are suitably connected to the parachute 21. As shown more clearly in Fig. 4, the cord 35 passes through the eyelets at the lower edge of the parachute section 21 and has one end thereof attached to the edge of said parachute while the depending portion thereof extends from the edge of the parachute adjacent the connected end thereof, the depending portion being of a length to be grasped by the wearer of the device to resist the opening movement thereof, thus to control the speed of descent of a person and also to regulate the speed of opening of the parachute.

From the above detailed description of

the invention, it is believed the construction and operation thereof will at once be apparent, it being understood that the parachute when in the folded position shown in Fig. 2 assumes a comparatively small space and being of light weight material, does not offer an unnecessary burden to the wearer. The body harness is securely fastened about the body of a person and accidental displacement of any of the parts is not considered probable. When it is desired to unfold the parachute to its operative position as illustrated in Fig. 4, the cords 24 have the loosely twisted ends 27 thereof released to be moved through the rings 20 upon the cords 18 as shown in Fig. 1 whereupon the parachute sections 21 and 22 may be displaced from the back of the wearer and the ends 24′ of the cords 24 will fall to the position shown in Fig. 3. By grasping the cord 35, the opening of the parachute section 21 may be readily regulated as will be obvious from an inspection of Fig. 4. When the parachute is folded, the cord 35 is drawn through the eyelets at the edge thereof, and during the opening of the parachute, the cord 35 is gradually released thus controlling the speed of opening movement of the parachute, and the resistance surface 11 offered to the air. It will therefore be seen that the manner of operation of the cord 35 regulates the speed of descent.

While there is herein shown and described what is believed to be the preferable embodiment of the invention, it is nevertheless to be understood that minor changes may be made in the novel form, combination and arrangement of parts herein fully described and shown in the accompanying drawings, without departing from the spirit and scope of the invention as claimed.

What is claimed as new is:—

1. A device of the class described comprising a body harness, a parachute therefor, cords connecting the parachute to the body harness, cords carried by the harness adapted to engage the parachute when in folded position, said body harness including a belt section, leg straps carried thereby, loops carried by the ends of said leg straps, leg encircling cords carried by said straps, a crotch strap fixed to the belt at the rear side thereof and detachably connected to the front of said belt, a back and shoulder strap carried by the belt, and cords carried by the shoulder strap adapted to be connected to the belt at the front side thereof.

2. A device of the class described comprising a body harness, a parachute therefor, cords connecting the parachute to the body harness, cords carried by the harness adapted to engage the parachute when in folded position, said body harness including a belt section, leg straps carried thereby loops carried by the ends of said leg straps, leg encircling cords carried by said straps, a crotch strap fixed to the belt at the rear side thereof and detachably connected to the front of said belt, a back and shoulder strap carried by the belt, cords carried by the shoulder strap adapted to be connected to the belt at the front side thereof and a pull cord connected to the parachute for controlling the opening movement thereof.

3. A device of the class described comprising a body harness, a parachute therefor, cords connecting the parachute to the body harness, cords carried by the harness adapted to engage the parachute when in folded position, said body harness including a belt, leg and foot straps carried thereby, a crotch strap carried by the belt, a back and shoulder strap carried by the belt and cords connecting the shoulder strap to the belt.

In testimony whereof I affix my signature.

ZUZANA KOZA.