Nov. 27, 1928. 1,693,518

J. H. KESSLER

PARACHUTE

Filed May 18, 1927

Fig. 1.

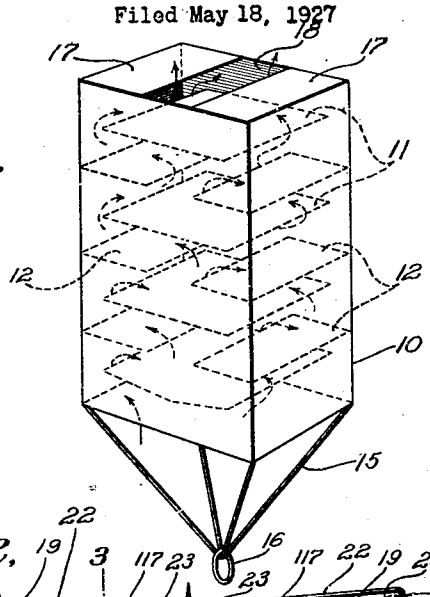


Fig. 4.

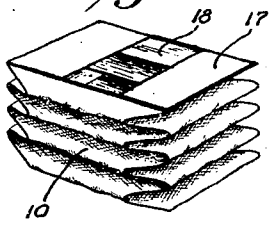


Fig. 2.

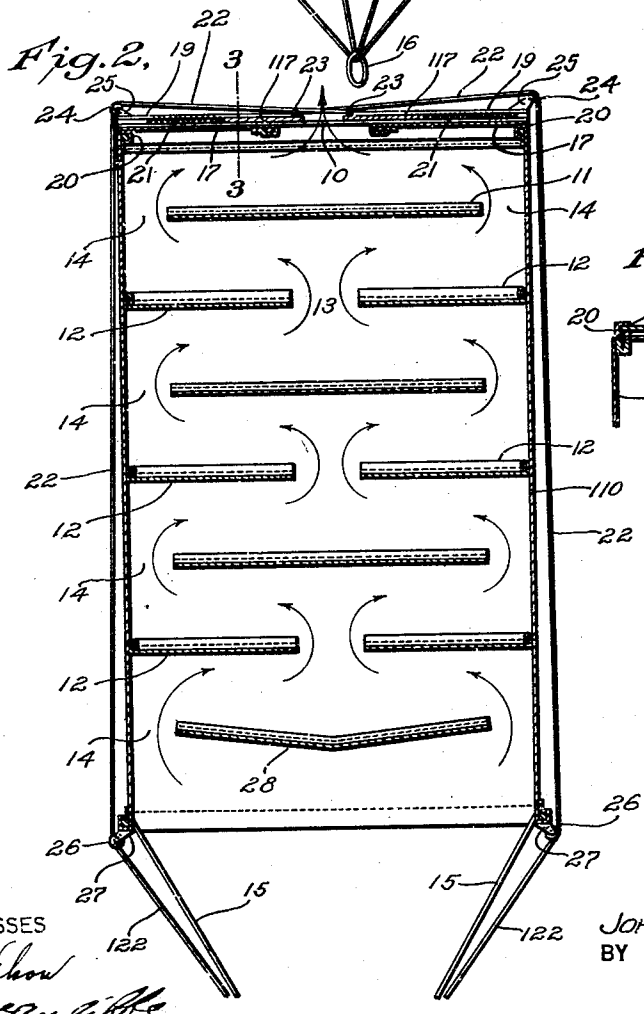
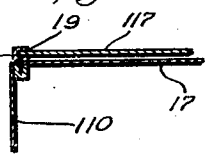


Fig. 3.



WITNESSES

E. G. Wilson

J. L. Macduff

INVENTOR

JOHN H. KESSLER

BY Munn & Co.,

ATTORNEY

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UNITED STATES PATENT OFFICE.

JOHN H. KESSLER, OF NYACK, NEW YORK.

PARACHUTE.

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My invention relates to a device to be used as a parachute and carried on aerial machines.

The general object of my invention is to provide a device of the indicated character which is provided with novel means to obstruct the passage of air through the device in a manner to retard the descent of the parachute.

A further object of the invention is to provide means whereby the flow of air through the device may be regulated in a manner to conform to the weight of the person descending with the aid of the parachute.

The nature of my invention and its distinguishing features and advantages will clearly appear as the description proceeds.

Reference is to be had to the accompanying drawings forming a part of this specification, it being understood that the drawings are merely illustrative of two examples of the invention.

Figure 1 is a perspective view of a parachute embodying my invention in one form.

Figure 2 is a vertical section of a parachute on an enlarged scale and illustrating another form of the invention.

Figure 3 is a detail in transverse vertical section as indicated by the line 3—3 of Figure 2.

Figure 4 is a perspective view of the parachute collapsed into the folded form for convenience when carrying or storing.

Referring first more particularly to Figure 1 of the drawings, the numeral 10 indicates the body which is rectangular in horizontal section to give it a box-like form. Within the body 10 are central baffles 11 horizontally disposed and terminating at the ends short of the sides of the box 10. Spaced from the baffles 11 and alternating therewith are pairs of baffles 12 extending from the side walls of the body 10 to a point short of the center. Thus a space 13 is produced between each pair of baffles 12 and spaces 14 adjacent the opposite ends of the baffles 11, whereby air passing upwardly through the body 10 will be caused to alternately pass at the sides of the baffles 11 and between the baffles 12.

In order that the user of the device may suspend himself from the parachute, ropes 15 extend from each corner and converge below the body 10 where they are connected by rings 16 or equivalent means to fasten the harness worn by the person descending. At the top of the body 10 fixed top sections 17 are provided spaced at their adjacent exposed edges to present an intervening air outlet 18.

In the form shown in Figures 2 and 3, the body designated 110 and corresponding in its essentials with the body 10, has elongated slideways 19 formed in corner strips 20 suitably secured to the body 110. Slide plates 117 are disposed above the outlet 18, as shown in Figure 2, and spaced to permit air passing from outlet 18 between said slide plates or shutters 117. The plates 117 are subject to springs 21 at the back of each plate, said springs tending to force said plates toward each other. In order that the final air outlet may be varied to suit the weight of the particular person descending, I employ ropes 22 secured as at 23 to the slide plates 117, and extending downwardly along the sides of the body 110, said ropes 22 being convergent as at 122, below the body 110, and in practice these ropes 122 are directed to any convenient point to be reached by the person descending, and suspended from the ropes 15 and ring 16. The ropes 22 may be suitably guided on the body 110 as shown by upper sheaves 24 on corner brackets 25, and at the lower corners of the body 110 sheaves 26 are provided on brackets 27.

The lowermost baffle 28 is preferably inclined upwardly from the center to facilitate the entrance of the column of air in its passage toward the baffles 11 and 12 above.

In Figure 4 the parachute is shown when collapsed, the opposite sides taking on the form of bellows folds.

It will be readily understood that the parachute, in addition to being used for the descent of a navigator, is useful for dropping mail from an aerial vessel, or the dropping of packages in war activities and war manœuvres.

I would state furthermore that while the illustrated examples constitute a practical embodiment of my invention, I do not limit myself strictly to the exact details herein illustrated, since, manifestly, the same can be considerably varied without departure from the spirit of the invention as defined in the appended claims.

I claim:

1. A parachute comprising an elongated body open for the passage of air vertically therethrough, manually controlled means for regulating the passage of air through the

body, and air baffles disposed transversely in said body and throughout the length thereof.

2. A parachute, an elongated rectangular box-like body open for the passage of air vertically therethrough, transversely disposed baffles in the body throughout its length, means at the bottom to suspend a person descending with the parachute, and top sections on the body presenting an air outlet therebetween.

3. A parachute comprising a box-like body, a series of horizontally disposed baffles extending across the center of the body and spaced at its ends from the walls of the body, and a second series of horizontal baffles extending from the side walls of the body between the first baffles and presenting a central space therebetween.

4. A parachute including a body, horizontally disposed baffles extending across the center of the body and spaced at the ends from the walls of the body, and a second series of baffles extending from the side walls of the body and presenting a central space therebetween; together with a baffle below the first and second mentioned baffles and adjacent the lower end of the body and inclined upwardly toward the side edges from the center.

5. A parachute comprising a box-like body open at the bottom and having an outlet in its top for the passage of air vertically therethrough, horizontally arranged baffles in the body and manually controlled means to vary the outlet of air at the top of the body.

6. A parachute comprising a rectangular body open at the bottom and having an outlet in its top for the passage of air vertically therethrough, guideways at opposite sides of the body at the top, slides movable in said guideways toward and from each other to vary the size of the air outlet therebetween, and manually controlled means for moving said slides in one direction.

7. A parachute comprising an elongated rectangular collapsible body open at the bottom and having an outlet in the top for the passage of air vertically therethrough, guideways at opposite sides of the body at the top, slides movable in said guideways toward and from each other to vary the size of the air outlet therebetween, manually controlled means for moving said slides in one direction, together with springs tending to move the slides in the opposite direction and horizontally arranged baffles in the body.

JOHN H. KESSLER.