

1,348,950.

Patented Aug. 10, 1920.

FIG. 1.

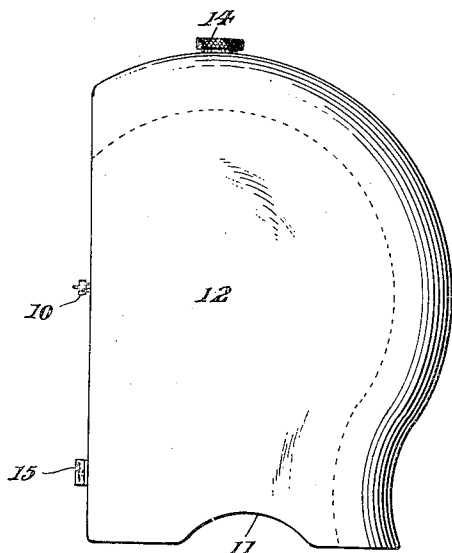


FIG. 2.

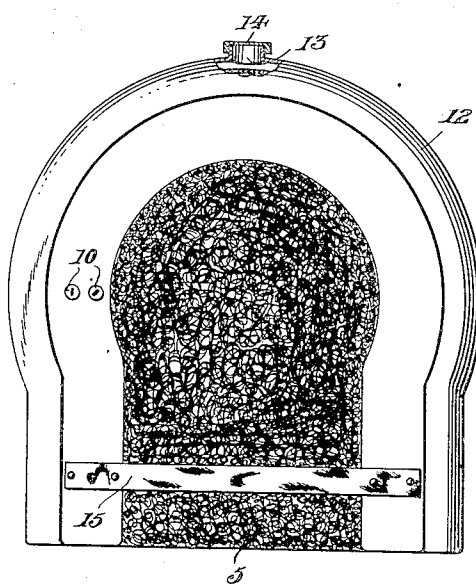


FIG. 4.

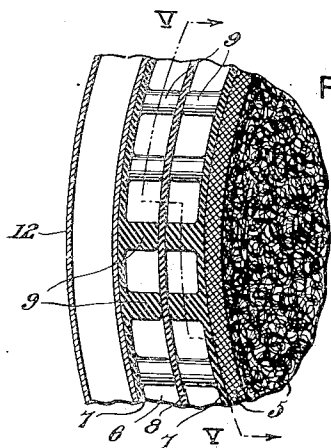


FIG. 3.

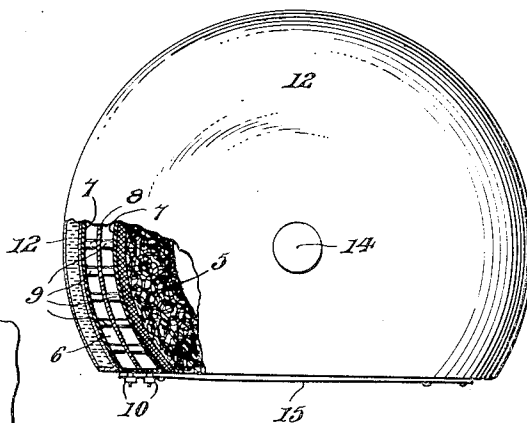
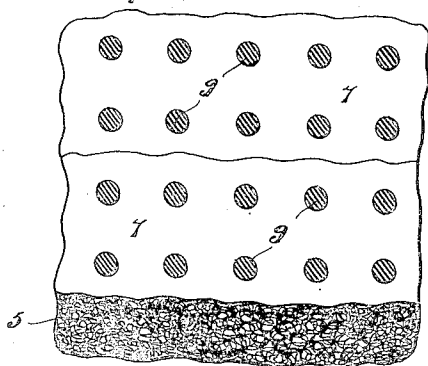


FIG. 5.



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AVIATOR'S HELMET.

1,348,950.

Specification of Letters Patent.

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Application filed December 22, 1919. Serial No. 346,669.

To all whom it may concern:

Be it known that I, ANDZEI KAMINSKI, a citizen of Poland, residing at Uniontown, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Aviators' Helmets, of which the following is a specification.

This invention relates to certain new and useful improvements in aviators' helmets and is primarily designed to protect the head of an aviator against the elements, to keep the aviator's head warm and protect against the wind.

Other objects are to provide a helmet which will constitute a shock absorber should the aviator meet with mishap and strike the ground head-first and to provide a simple and durable construction for carrying out the above objects.

The invention is illustrated in its preferred embodiment in the accompanying drawing wherein like reference characters indicate corresponding parts throughout the several views.

In the drawing,

Figure 1 is a side elevational view of a helmet constructed in accordance with the present invention,

Fig. 2 is a front elevational view thereof partly broken away,

Fig. 3 is a top plan view thereof partly broken away,

Fig. 4 is an enlarged fragmentary sectional view showing details of the invention

and Fig. 5 is a sectional view taken substantially upon line V—V of Fig. 4.

Referring more in detail to the several views, the present invention embodies a lining 5 of felt which is shaped to substantially conform to the outline of a person's head and this lining has its outer surface in contact with the inner surface of the air cushion 6. The air cushion 6 is substantially the shape of the lining 5 and comprises an airtight receptacle embodying side walls 7 and an intermediate partition 8 which is spaced centrally between the walls 7 by means of opposed pairs of lugs 9. Suitable inflation valves 10 are provided at one side of the helmet for the purpose of introducing air under pressure into the air cushion 6. It will be noted that when the air cushion 6 is inflated, the lining 5 will be forced into contact with the various parts of the person's head. It is also to be noted

that the helmet is of such size as to envelop the neck of the wearer and is provided with cut-out portions 11 at its lower edge so as to rest upon the shoulders of the wearer.

A fluid-tight container 12 is provided surrounding the air container 6 and is provided with a suitable filling opening 13 preferably at the top of the helmet adapted to be closed by a cap 14 or the like. The fluid-tight container 12 is merely a water-proof bag shaped to conform to the head of the wearer and is adapted to be filled with some fluid which is not readily liable to freeze and which will therefore insulate the wearer's head against the cold. This container 12 will also act in connection with the container 6 and lining 5 to cushion or absorb shock provided the wearer should meet with mishap and strike the ground head-first. The lugs 9 provide a solid cushion in connection with this shock absorbing feature and allow more resiliency than could be obtained by providing a solid member in place of the container 6.

The opposite sides of the helmet are drawn together against the sides of the wearer's head by a flexible elastic member 15 which has its ends secured to the front edges of the container 6. The lining 5 is preferably cemented or otherwise secured to the container 6 and the containers 6 and 12 are also preferably similarly secured together.

In view of the foregoing description, it is believed that the construction and manner of use as well as the practicability of the present invention will be readily understood and appreciated by those skilled in the art.

It is to be understood that minor changes may be made in the details of the invention without departing from the spirit and scope of the same as claimed.

What is claimed as new is:

1. An aviator's helmet including an air container shaped to substantially conform with the wearer's head and to envelop the neck of the wearer, a flexible fluid container enveloping the air container and similarly shaped, the lower edges of said containers being cut out to rest upon the shoulders of the wearer, and means for respectively introducing air and fluid into said containers.

2. An aviator's helmet including an air container shaped to substantially conform

with the wearer's head and to envelop the neck of the wearer, a flexible fluid container enveloping the air container and similarly shaped, the lower edges of said containers being cut out to rest upon the shoulders of the wearer, means for respectively introducing air and fluid into said containers, and a flexible and elastic member connecting the opposite sides of said air container for drawing said sides together and thereby secure the helmet upon the wearer's head.

3. An aviator's helmet including an air container shaped to substantially conform with the wearer's head and to envelop the neck of the wearer, a flexible fluid container enveloping the air container and similarly shaped, the lower edges of said containers being cut out to rest upon the shoulders of the wearer, means for respectively intro-

ducing air and fluid into said containers, and a soft flexible lining secured upon the inner surface of said air container.

4. An aviator's helmet including an air container shaped to substantially conform with the wearer's head and to envelop the neck of the wearer, a flexible fluid container enveloping the air container and similarly shaped, the lower edges of said containers being cut out to rest upon the shoulders of the wearer, means for respectively introducing air and fluid into said containers, said air container embodying a pair of outer walls having opposed studs projecting toward each other, and a partition between said studs.

In testimony whereof I affix my individual signature.

ANDZEI KAMINSKI.