

Aug. 23, 1932.

H. B. ELY

1,873,864

EAR MASK

Filed Feb. 1, 1929

Fig. 1.

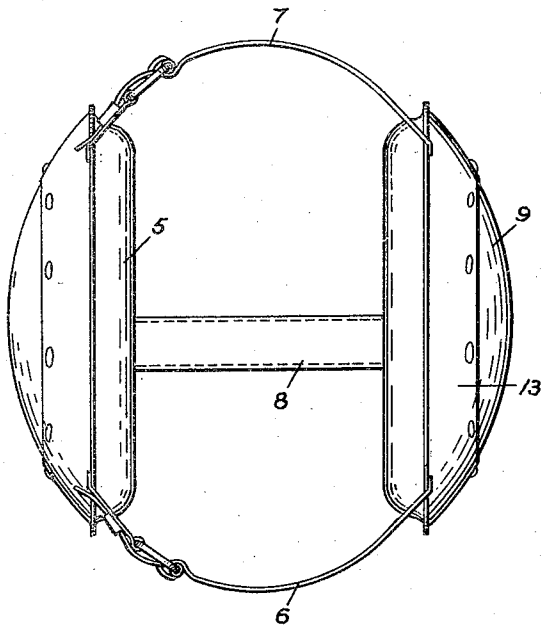


Fig. 2.

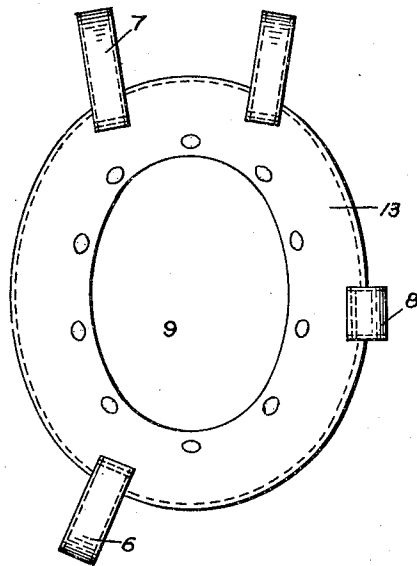
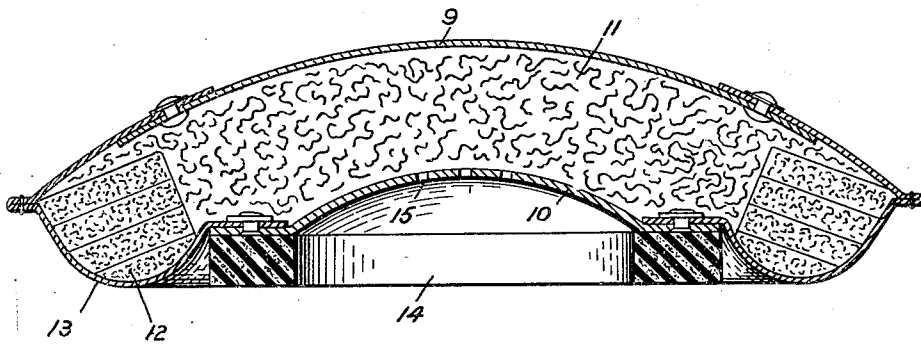


Fig. 3.



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EAR MASK

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(GRANTED UNDER THE ACT OF MARCH 3, 1883, AS AMENDED APRIL 30, 1928; 370 O. G. 757)

The invention described herein may be manufactured and used by or for the Government for governmental purposes, without the payment to me of any royalty thereon.

This invention relates to an ear mask.

The purpose of the invention is to provide a mask which will effectively protect the ear against injury due to concussion as produced, for example, by high-powered guns.

With the foregoing and other objects in view, the invention resides in the novel arrangement and combination 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.

A practical embodiment of the invention is illustrated in the accompanying drawing, wherein:

Fig. 1 is a view in front elevation of a headset, including the improved masks;

Fig. 2 is a view in side elevation thereof; and

Fig. 3 is a longitudinal sectional view through a mask.

Referring to the drawing by numerals of reference:

There is shown a head set comprising a pair of masks 5 connected by a chin strap 6, crown straps 7 and a back strap 8.

The masks 5 are identical and each is formed of an outer dome 9, and an inner dome 10, separated by a sound damping material 11. The domes are preferably oval shaped, the inner one being of lesser diameter so that a cushioning member 12 whose covering 13 is attached to the marginal portions of the domes and serves to hold the two together, will be supported by the outer dome and thereby insure a close fit against the head when the straps are properly adjusted.

A resilient gasket 14 made of a material such as sponge rubber is preferably adhesively secured to the margin of the inner dome and extends flush with the cushioning member.

When the headset is in position, the gasket 14 will embrace the ear and the cushion mem-

ber will protect the bony structures of the head in the vicinity of the ear which normally conveys a large amount of sound energy to the inner ear.

The inner dome is provided with openings 15 to afford a circulation of air in the material 11.

I claim:

1. An ear mask, including an inner dome, a larger outer dome, a sound damping material separating the domes, a cushioning member attached marginally to the domes, and a resilient gasket adhesively secured to the inner dome and extending flush with the cushioning member.

2. An ear mask, including an inner dome, an outer dome, a sound damping material separating the domes, a cushioning member attached marginally to the domes, and a resilient gasket circumscribed by the cushioning member and adhesively secured to the inner dome.

3. An ear mask comprising spaced support members, a sound damping material between the members, a cushioning member connecting the support members and a resilient gasket attached to one of the support members within the cushioning member.

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