Aug. 17, 1926. 1,596,171

W. E. FRANCISCO

HEAD GUARD FOR EAR PHONES

Filed March 10, 1925

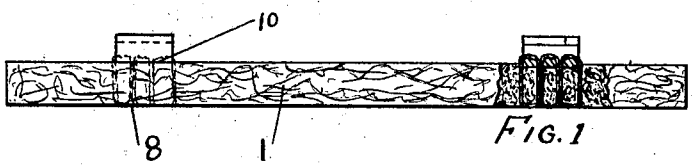


FIG. 1

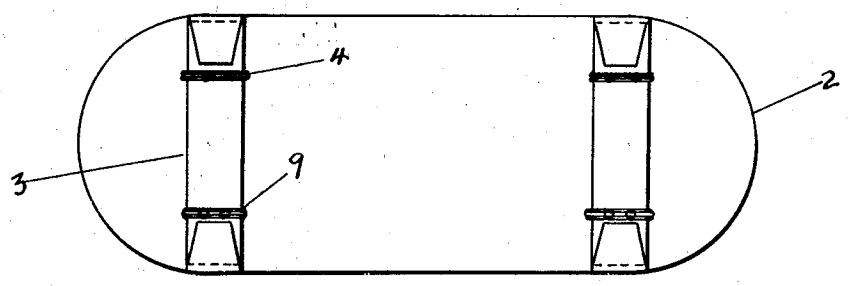


FIG. 2

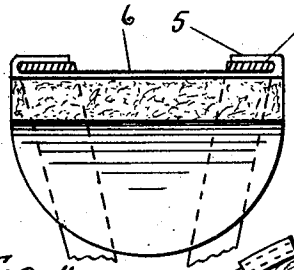


FIG. 4

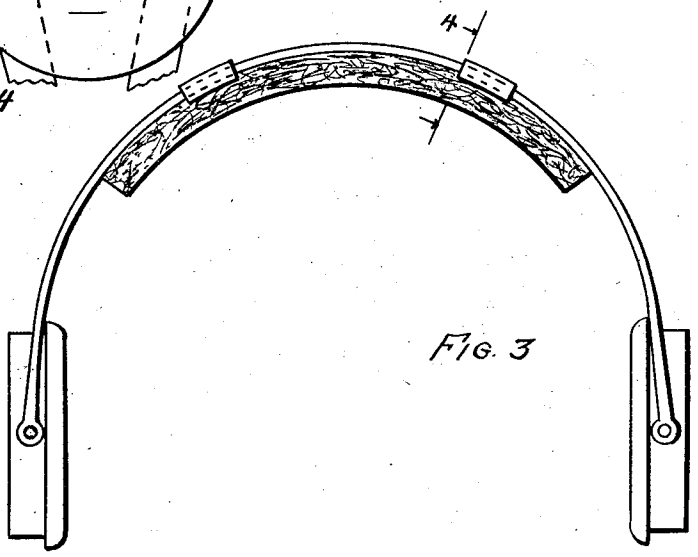


FIG. 3

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UNITED STATES PATENT OFFICE.

WALLACE E. FRANCISCO, OF OAKLAND, CALIFORNIA.

HEAD GUARD FOR EAR PHONES.

Application filed March 10, 1925. Serial No. 14,405.

My invention is a head guard for ear telephones, comprising a padding to be attached to the bows passing over the head. It is particularly adapted to the ear telephones used in radio work: and may be used with nearly all types of bows now on the market. My invention comprises a padding, preferably of felting which may be attached to the bows to protect the head. I sew or otherwise secure a pair of metal clips, having hook-shaped ends to an elongated felt pad: and the wire or metal strap of a head set engage in the clips thus holding the head piece bows and the padding in firm relative position.

My invention will be more clearly understood from the following description and drawings, in which:—

Figure 1 is a side elevation of my head guard pad.

Figure 2 is a plan view of the pad showing the metal clips and the stitching securing them to the pad.

Figure 3 is a side view of the ear phone assembly showing my head guard pad attached to the metal bows of the ear phone.

Figure 4 is a cross section of Figure 3 on the line 4—4 in the direction of the arrows, showing the metal bows engaging under the hooks of the clips on the guard pad.

In the drawings the felt pad 1, preferably has rounded ends 2, and metal clips 3 are secured to the pad by stitches x or other fastening means. The clips are each the same and comprise a metal strip 4 bent over on itself forming hooks 5. The part of the strip on the top of the pad may be designated as a web 6 and the hooks 5 and web form a space 7 for the head set wires or bands. The web is fastened to the pad by stitches, of thread, 8 which engage in notches 9 in the edge of the strip and through thread holes 10.

The ear telephones 11 are secured to wires or bands 12 and 13, as is a standard practice, and as these normally tend to spread apart they catch and are held by the hooks 5 of the metal strip. The construction illustrated shows flat bands or bows but round wire is often used. In which case the hooks 5 would likewise engage and hold the bows.

By the assembly drawing of Figure 3 it will be seen that the felt pad bears on the head and the metal bows cannot contact therewith, thereby making the head sets fit more comfortably. Various detail changes could be made in my head set guard pad to suit different types and arrangement of bows without departing from the spirit thereof.

The strips of metal forming the clips are preferably of spring metal, or the hook ends only may be tempered to form a spring to grip the bows independent of any outward tension of the bows. If desired hooks alone may be sewed to the pad without the cross web 6.

I claim:—

1. A head guard pad made of soft, flexible material and of uniform thickness having spaced pairs of cooperating hooks arranged on opposite sides thereof.

2. A head guard pad made of soft flexible material and of uniform thickness and having transverse strips secured to one face thereof, each strip having its ends turned over away from the material to form oppositely arranged hooks.

3. A head guard pad made of soft flexible material and having transverse strips secured to one face thereof, each strip having its ends turned over away from the material to form oppositely arranged hooks, the unbent portion of each strip being coextensive with the transverse dimension of the pad.

4. A head guard pad made of soft flexible material and having transverse strips secured to one face thereof, each strip having its ends turned over away from the material to form oppositely arranged hooks, the unbent portion of each strip being coextensive with the transverse dimension of the pad and being made of springy material to slightly yield with the pad material.

5. A head telephone set assembly comprising in combination ear telephones, a pair of bows attached thereto and tensioned to spring apart, a separable pad having hooks formed on opposite sides thereof adapted to allow the bows to spring thereinto.

In testimony whereof I affix my signature.

WALLACE E. FRANCISCO.