

Jan. 13, 1925.

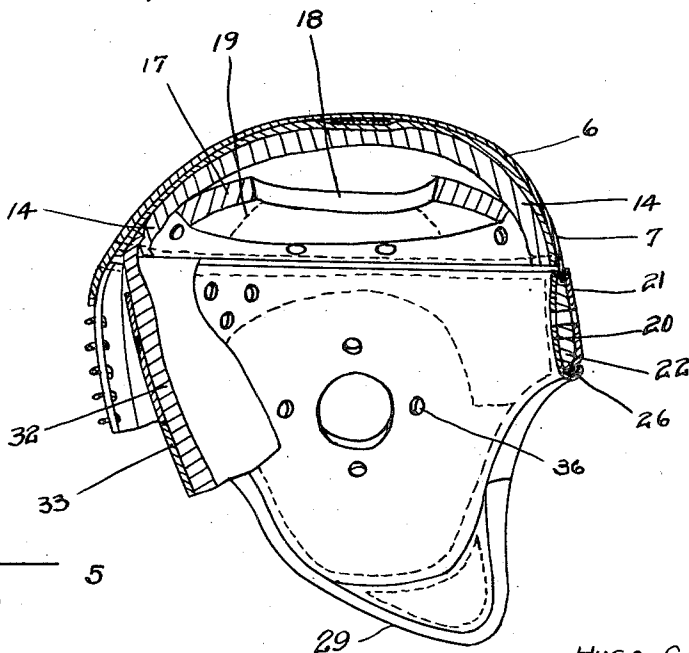
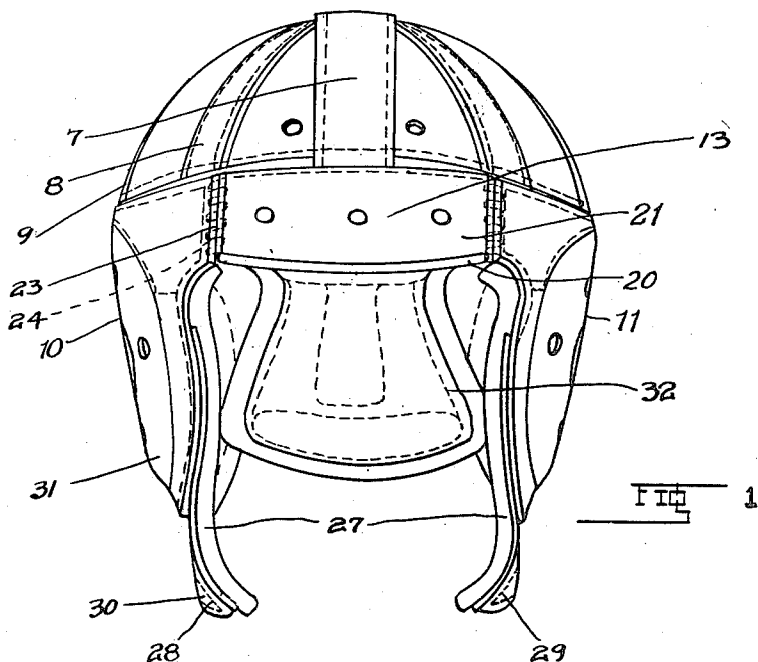
H. GOLDSMITH

1,522,952

FOOTBALL HELMET

Filed Nov. 20, 1922

2 Sheets-Sheet 1



Inventor

HUGO GOLDSMITH

By *Walter T. Murray*

Attorney

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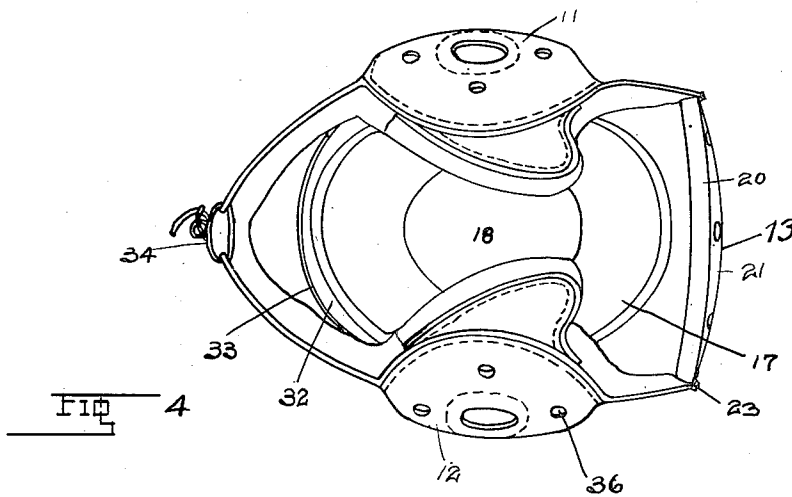
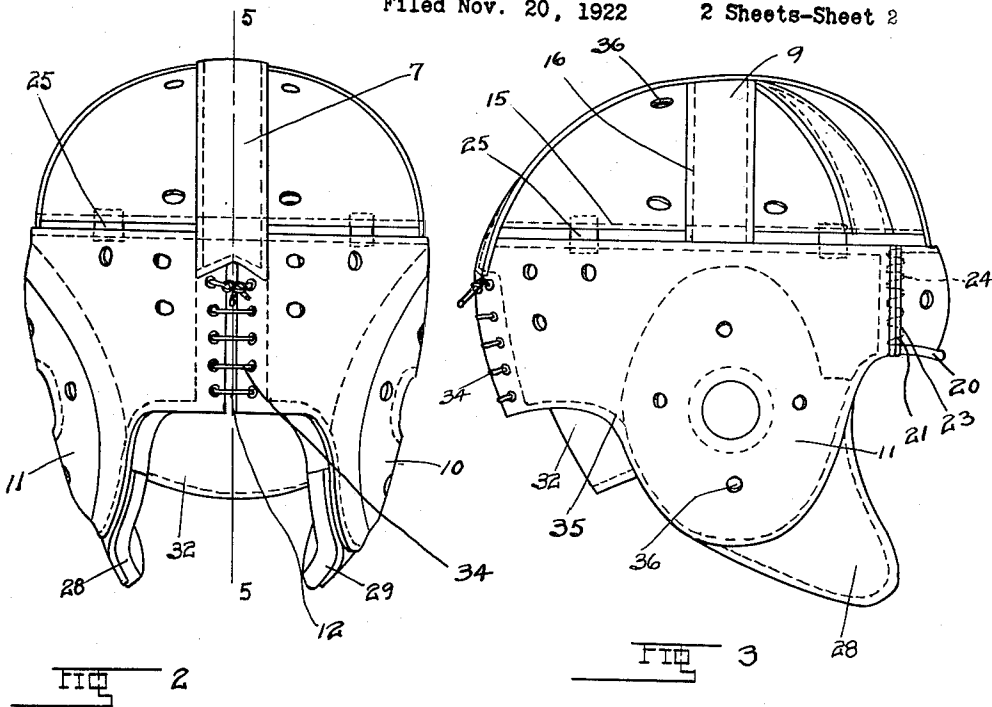
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Inventor

HUGO GOLDSMITH

By *Walter A. Murray*
Attorney

Patented Jan. 13, 1925.

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UNITED STATES PATENT OFFICE.

HUGO GOLDSMITH, OF CINCINNATI, OHIO, ASSIGNOR TO THE P. GOLDSMITH SONS COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

FOOTBALL HELMET.

Application filed November 20, 1922. Serial No. 802,152.

To all whom it may concern:

Be it known that I, HUGO GOLDSMITH, a citizen of the United States of America, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Football Helmets, of which the following is a specification.

An object of my invention is to provide a foot ball helmet having certain new protective features.

Another object of my invention is to provide a device of the class referred to, wherein the parts are so related that the helmet will retain its position upon the head of the wearer without the use of chin straps or the like.

Another object of my invention is to provide a helmet that will fully protect the base of the skull.

These and other objects are attained by the means described herein, and disclosed in the accompanying drawings, in which—

Fig. 1 is a front elevation of a device embodying my invention.

Fig. 2 is a rear elevation of a device shown in Fig. 1.

Fig. 3 is a side elevation of the device shown in Fig. 1.

Fig. 4 is an inverted plan view of the device shown in Fig. 1.

Fig. 5 is a sectional view on line 5—5 of Fig. 2.

The helmet of my invention comprises a crown 6 of an inverted cup shape, carrying upon its upper and outer face re-enforcing strips or straps 7, 8 and 9. The edge of the crown 6 terminates adjacent the upper edge of the sides 10 and 11. The rear ends of the sides converge and are laced upon one another as shown at 12. The forward ends of the sides are secured upon a forehead protecting strip 13. The ends of the straps 7, 8 and 9 extend beyond the edge of the crown and are secured upon the sides 10 and 11 and upon the forehead protector 13. The sides are dished or cupped outwardly to provide recesses for receiving the ears of a wearer. Portions of the sides extend outwardly and downwardly from the ear protectors and are adapted to lie over the jaw of a wearer thereby affording protection to the jaws. The crown carries upon its inner face a layer of felt or other shock resisting material 14, said material being secured upon the crown by any suitable means such as the rows of stitching 15 extending about the edge of the crown and the rows of stitching 16 extending through the straps, the crown and the felt. A resilient shock resisting ring 17 having a central aperture 18, is secured upon the inner face of the layer or pad 14 by any suitable means such as rows of stitching 19. The strap 7 extends beyond the lower forward edge of the crown and has secured upon it bands 20 and 21. The bands are secured upon opposite sides of the strap, and have their lower ends secured upon one another whereby a pocket is provided between the bands and in this pocket is disposed a suitable shock resisting material 22, such as sponge rubber, etc. The side edges of the bands and the forward edges of the sides are secured upon one another as shown at 23. The band 20 is preferably of a soft leather and has its ends secured upon the ends of the band 21 by any suitable means such as a row of stitching 24. A series of auxiliary straps 25 extends between the crown and the sides and cooperate with the straps 7, 8 and 9 in securing the crown and sides upon one another. The lower edges of the bands 20 and 21 are secured upon one another by a row of stitching 26. The lower edge of the band 20 is beaded to protect the forehead of the wearer from the heavier and stiffer material of which the band 21 is made. The sides 10 and 11 carry upon their inner surfaces suitable padding 27 of any suitable material such as felt. The padding extends downwardly and has its lower edges secured upon the jaw protectors 28 and 29. Although the jaw protectors are shown as comprising separate outer sheets of protecting material 30, and are attached to the ear protectors 31, the jaw protectors and ear protectors may comprise integral structures. A depending flap 32 of any suitable material such as felt or sponge rubber has its upper end secured between the rear lower edge of the crown and the felt padding 14 carried by the crown. The depending flap enlarges in width as it recedes from the crown, and carries upon its outer face a protecting cover 33, preferably of leather. The flap 32 lies interiorly of the rear ends of the sides and extends downwardly beyond the lower edges of the rear ends of the sides. The flap 32 may be modified in length and in width to meet various

conditions, being capable of enlargement to project for any determinable distance downwardly over the neck of the wearer. This flap affords protection to the base of the skull. The lacings 34 whereby the rear ends of the sides are secured upon one another are preferably elastic, thereby permitting expansion of the lower portion of the helmet for mounting same upon the head of the wearer. By referring to Fig. 2 it will be apparent that the sides converge downwardly and that the elastic 34 yieldingly retains the sides in such downwardly converging position. When the helmet is mounted or demounted, the sides are capable of a hinged movement on the straps securing the sides upon the crown. Suitable rows of stitching 35 secure the padding upon the inner faces of the sides.

It should be observed that by cupping or dishing the sides to receive the ears, the sides are stiffened thereby providing a recess to receive additional strengthening or stiffening material if desired. This dishing of the sides, and the provision of additional stiffening matter in the recesses causes the sides to snugly hug the head of the wearer. The jaw protectors together with the structure at the rear of the sides makes possible the elimination of the under chin strap heretofore employed to preclude dislodgment of the helmet. The structure at the rear of the sides, together with the downwardly converging feature thereof permits the elimination of the front forehead binding elastic heretofore employed. By eliminating the forehead binding elastic it is possible to provide a stouter forehead structure containing the shock resisting material 22. The helmet may be provided with suitable ventilation holes 36.

What I claim is:

1. In a device of the class described the combination of a crown, depending sides hingedly carried by the crown, the sides be-

ing independent at their rear ends, means elastically connecting the rear ends of the sides, and jaw protectors carried by the sides depending downwardly and forwardly from the sides.

2. In a device of the class described the combination of a crown, depending sides hingedly carried by the crown, the sides being independent at their rear ends, means elastically connecting the rear ends of the sides, jaw protectors carried by the sides depending downwardly and forwardly from the sides, and a base skull protector carried by the crown and extending downwardly beyond the rear ends of the sides and between the sides.

3. In a device of the class described the combination of a crown, sides depending from the crown, spaced from one another at the front of the crown and converging downwardly and inwardly, elastic means connecting the rear ends of the sides, and a substantially non elastic band depending from the crown between the forward ends of the sides.

4. In a device of the class described the combination of a crown, sides depending from the crown, spaced from one another at the front of the crown and converging downwardly and inwardly, elastic means connecting the rear ends of the sides, a substantially non elastic band depending from the crown between the forward ends of the sides, and jaw protectors carried by the sides.

5. In a device of the class described the combination with a crown of independent, downwardly depending and converging sides, having adjacent rear edges, and an elastic lacing connecting the adjacent edges of the sides.

In testimony whereof, I have hereunto subscribed my name this 15th day of November, 1922.

HUGO GOLDSMITH.