



US005546609A

United States Patent [19]

[11] **Patent Number:** **5,546,609**

Rush, III

[45] **Date of Patent:** **Aug. 20, 1996**

[54] **HELMET**

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[76] Inventor: **Gus A. Rush, III**, 1800 12th St., Meridian, Miss. 39301

[21] Appl. No.: **288,078**

[22] Filed: **Aug. 10, 1994**

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Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 66,670, May 25, 1993, Pat. No. 5,390,367, which is a continuation-in-part of Ser. No. 964,875, Oct. 22, 1992, Pat. No. 5,287,562, which is a continuation-in-part of Ser. No. 818,840, Jan. 10, 1992, abandoned.

[51] Int. Cl.⁶ **A42B 3/06; A42B 3/30**

[52] U.S. Cl. **2/413; 2/422; 2/424; 2/425; 2/906; 455/100**

[58] **Field of Search** **2/422, 411, 413, 2/415, 424, 425, 2, 905, 906; 362/103, 105, 106; 455/100**

Primary Examiner—Peter Nerbun
Attorney, Agent, or Firm—Cushman Darby & Cushman, L.L.P.

[57] ABSTRACT

A helmet assembly for providing an indication when a predetermined axial compressive force tending to cause serious injury to the wearer is applied thereto. The assembly comprises a rigid helmet having a lower rim for at least partially encircling the head of the wearer. The helmet is defined by an exterior surface including a crown areal. A transmitting device is carried by the helmet for transmitting a signal to a remote location when a predetermined amount of axial compressive force is applied to the crown area. Receiving means disposed remotely from the helmet receives the signal transmitted by the transmitting device.

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31 Claims, 7 Drawing Sheets

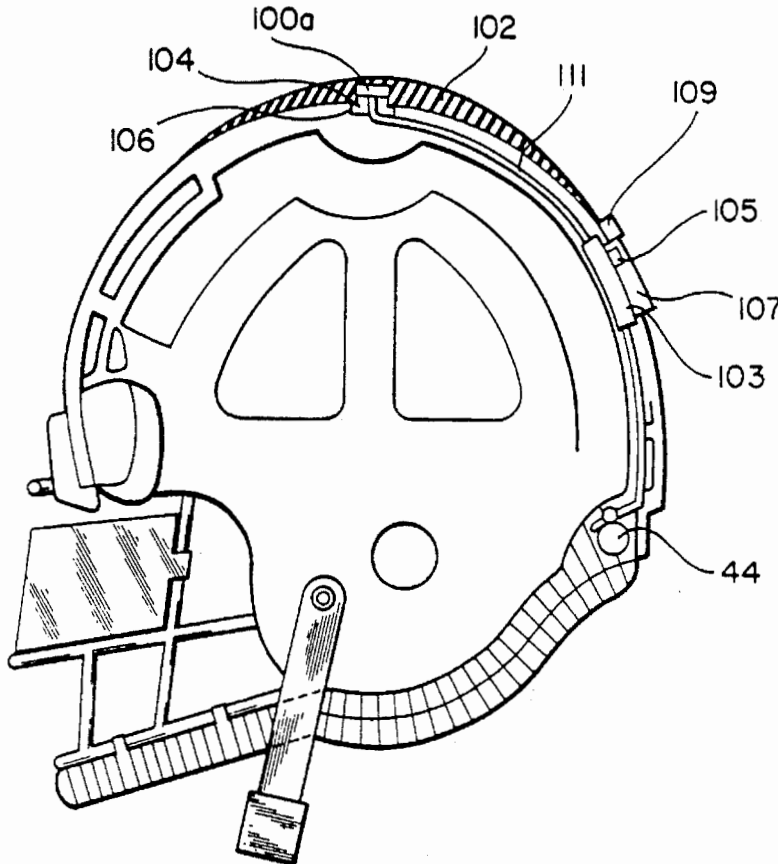


FIG. 1

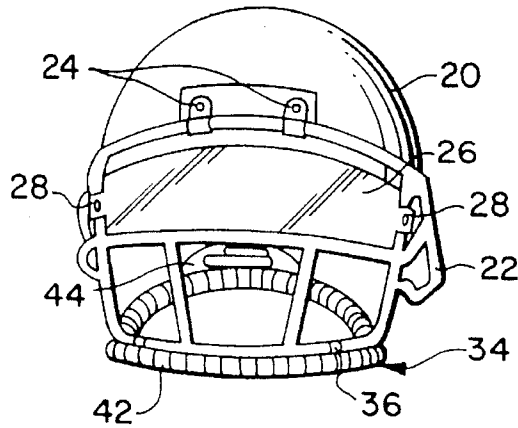


FIG. 2

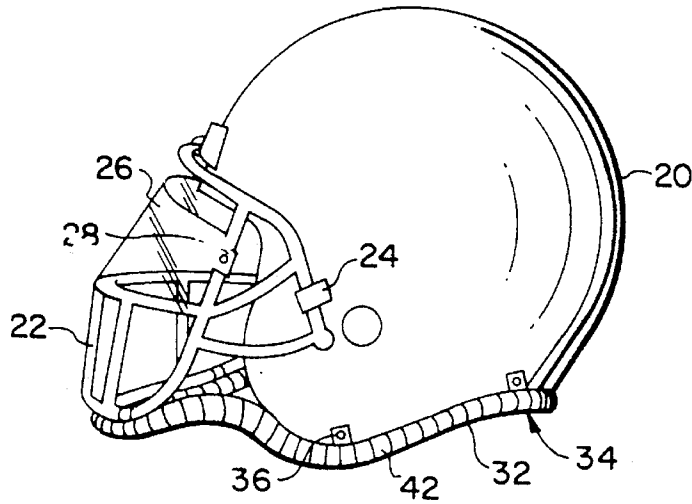


FIG. 3

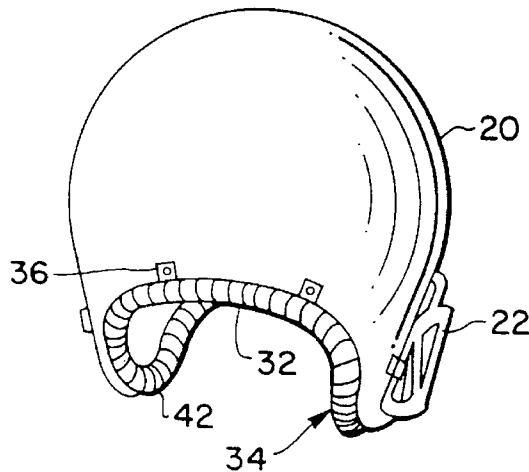


FIG. 4

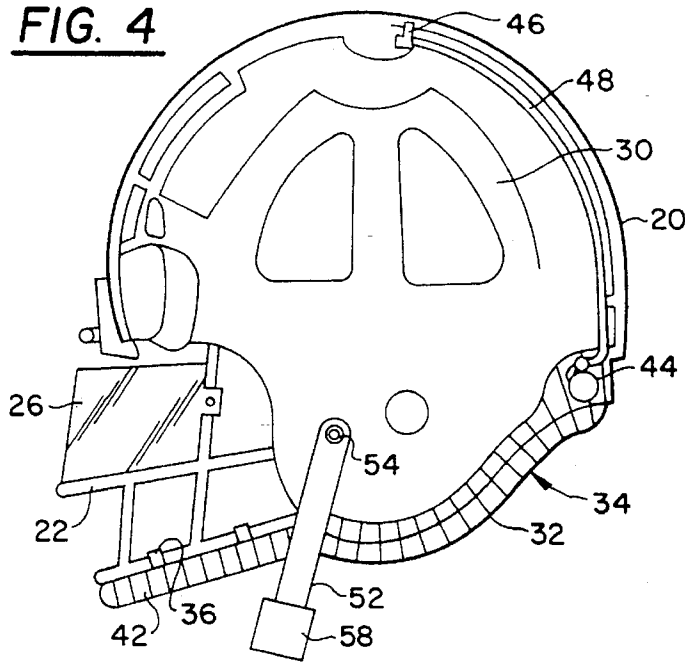


FIG. 5

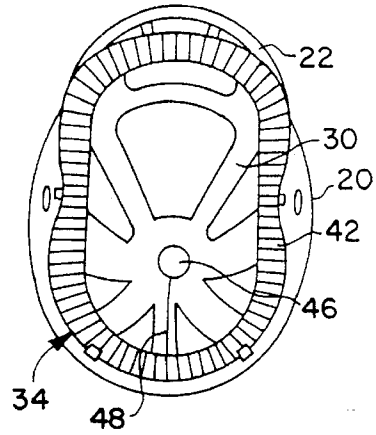


FIG. 6

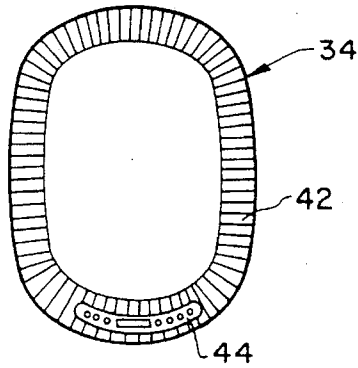


FIG. 8

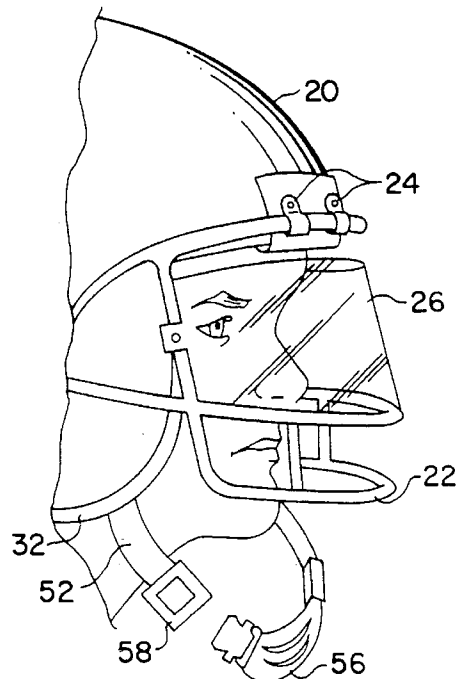
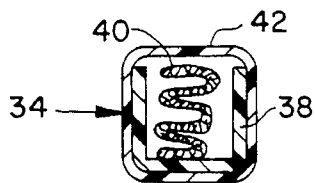


FIG. 7



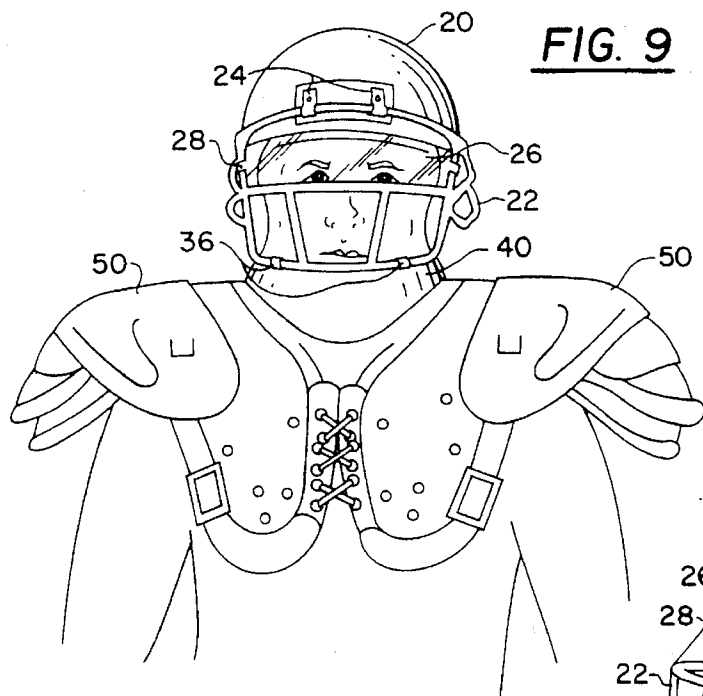


FIG. 9

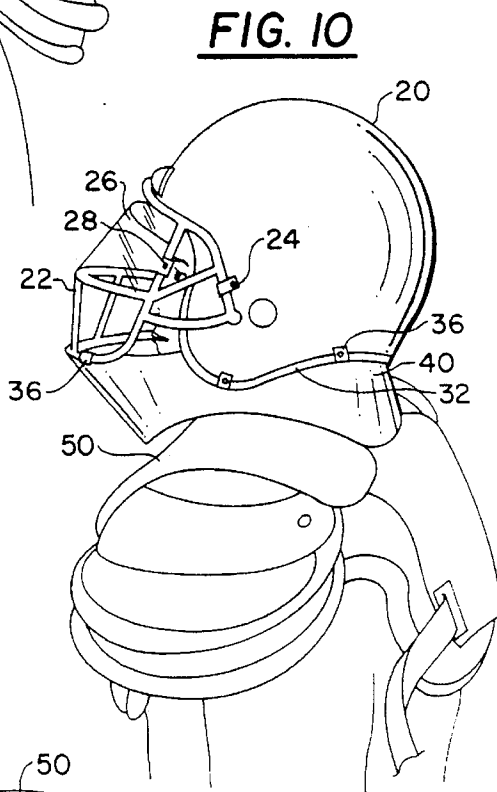


FIG. 10

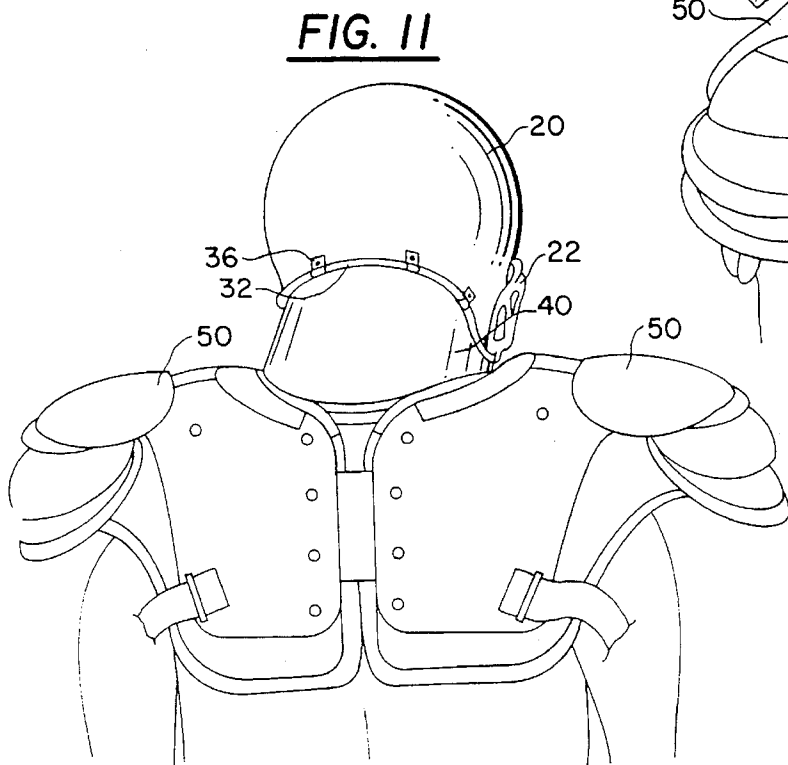


FIG. 11

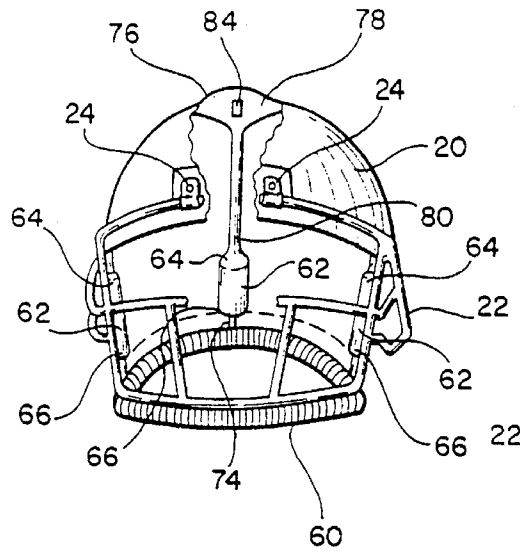


FIG. 12

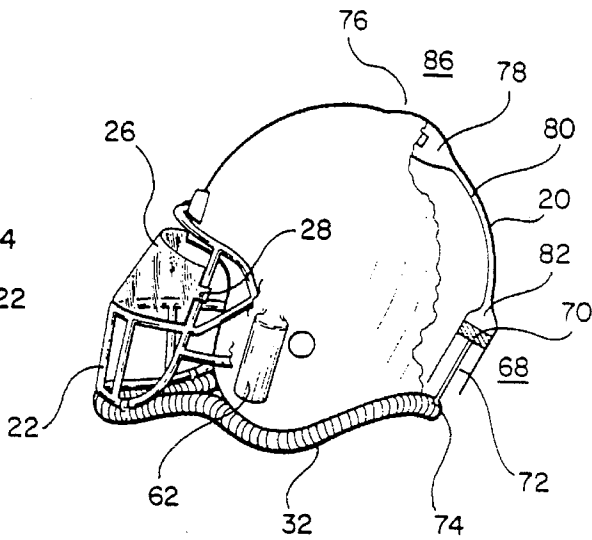


FIG. 13

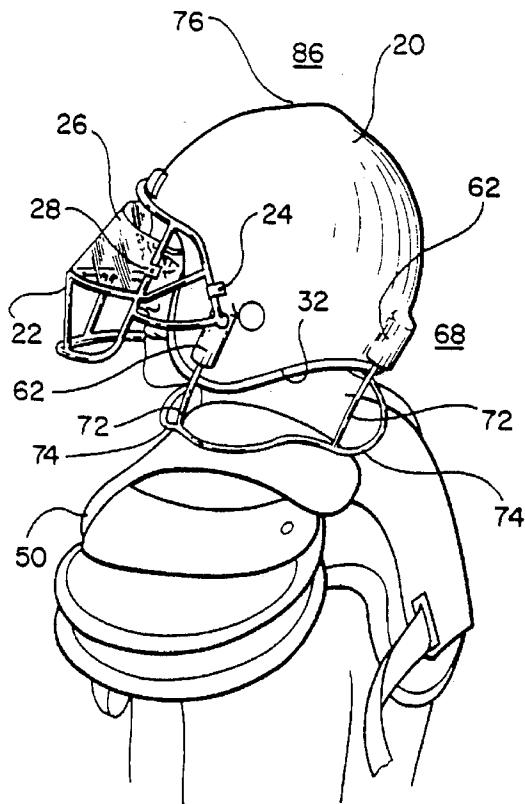


FIG. 14

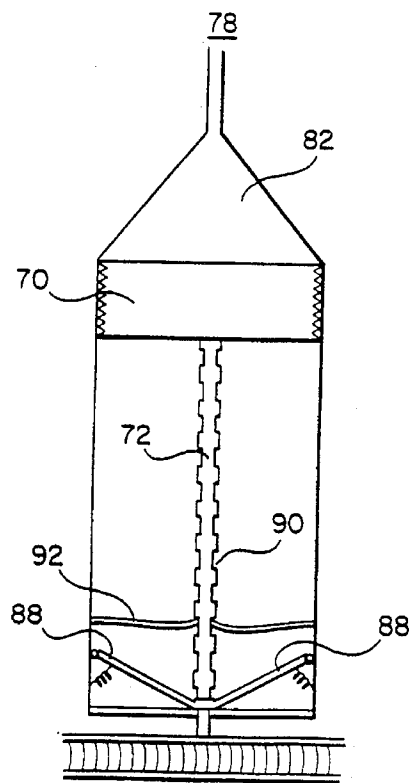


FIG. 15

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