



US005546609A

# United States Patent [19]

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

**Rush, III**

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

[54] **HELMET**

4,637,074	1/1987	Tacfri .	
4,654,010	3/1987	Havriluk .....	455/100 X
4,931,913	6/1990	Hwang .....	362/103
5,091,992	3/1992	Pusic .	
5,329,637	7/1994	Walker .....	455/100 X
5,353,008	10/1994	Eikenberry et al. ....	2/422 X

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

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

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

### FOREIGN PATENT DOCUMENTS

1944821	3/1971	Germany .
3142962	6/1983	Germany .

### 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.<sup>6</sup>** ..... 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.

### [56] References Cited

#### U.S. PATENT DOCUMENTS

4,243,248	1/1981	Scholz .	
4,274,161	6/1981	Little .	
4,321,433	3/1982	King .....	2/422 X
4,324,005	4/1982	Willis .	

31 Claims, 7 Drawing Sheets

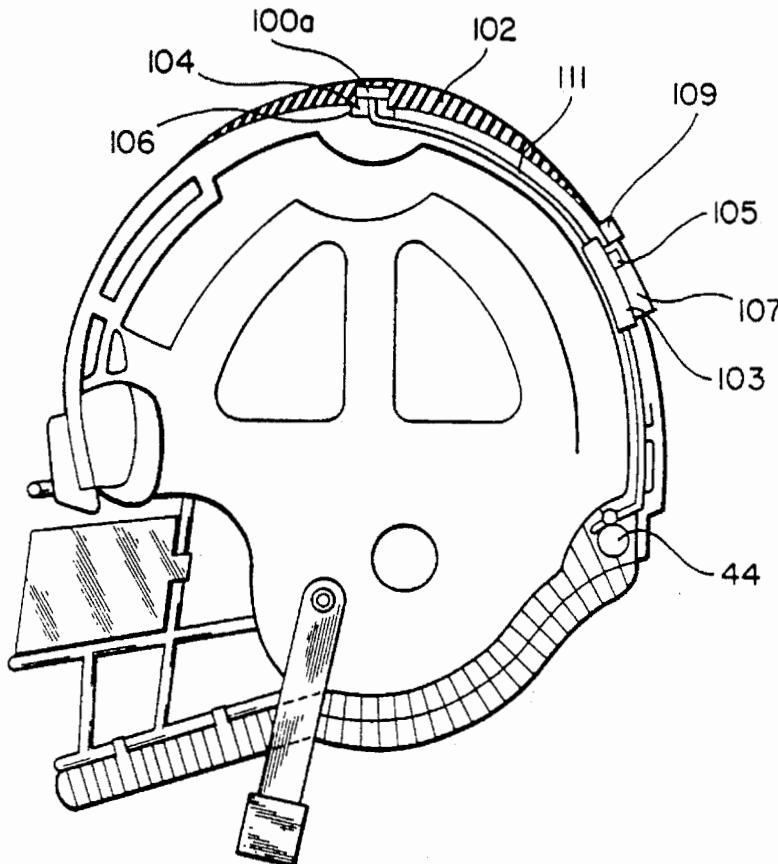


FIG. 1

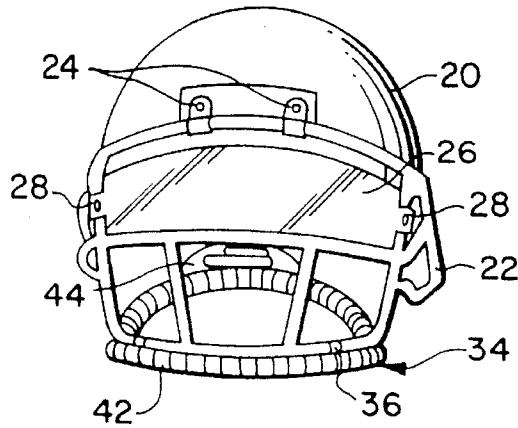


FIG. 2

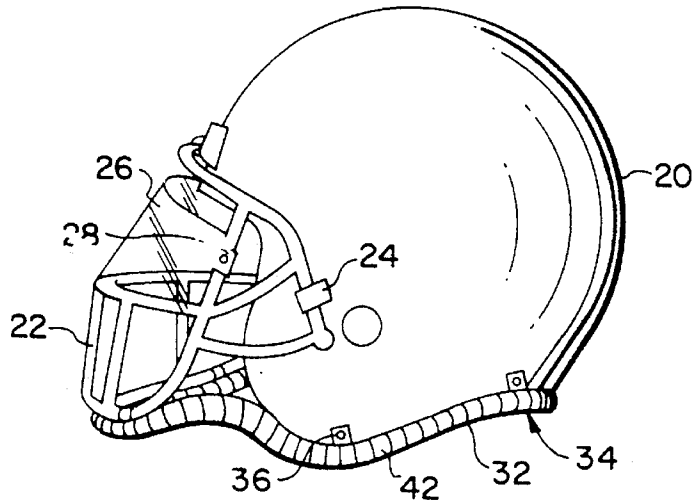
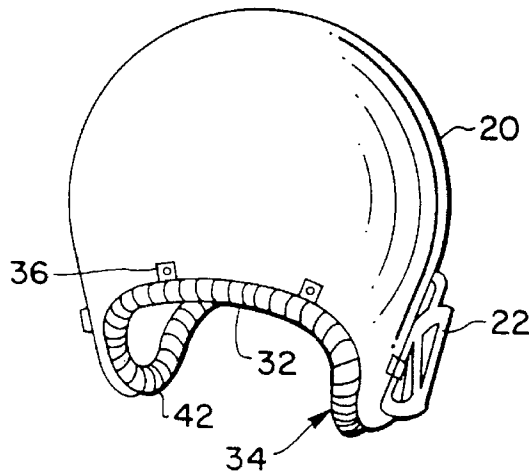
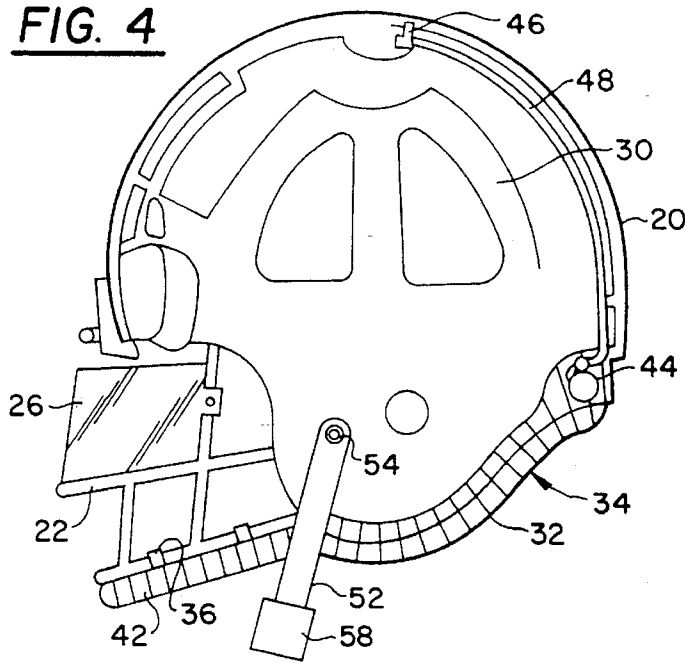


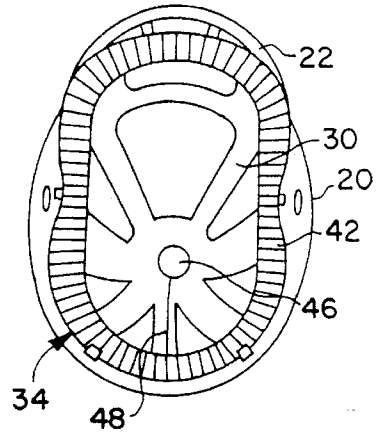
FIG. 3



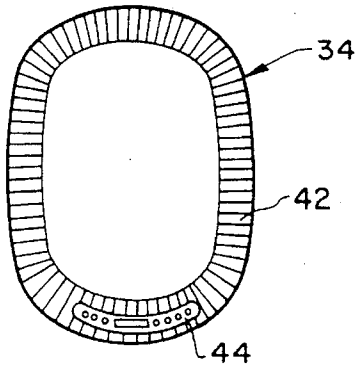
**FIG. 4**



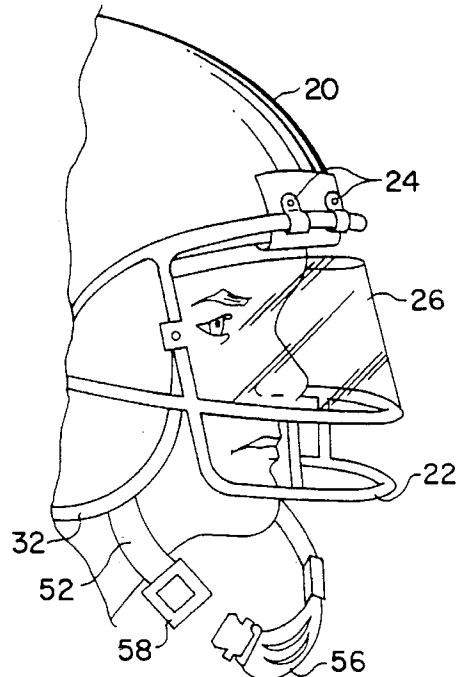
**FIG. 5**



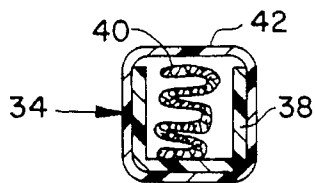
**FIG. 6**



**FIG. 8**



**FIG. 7**



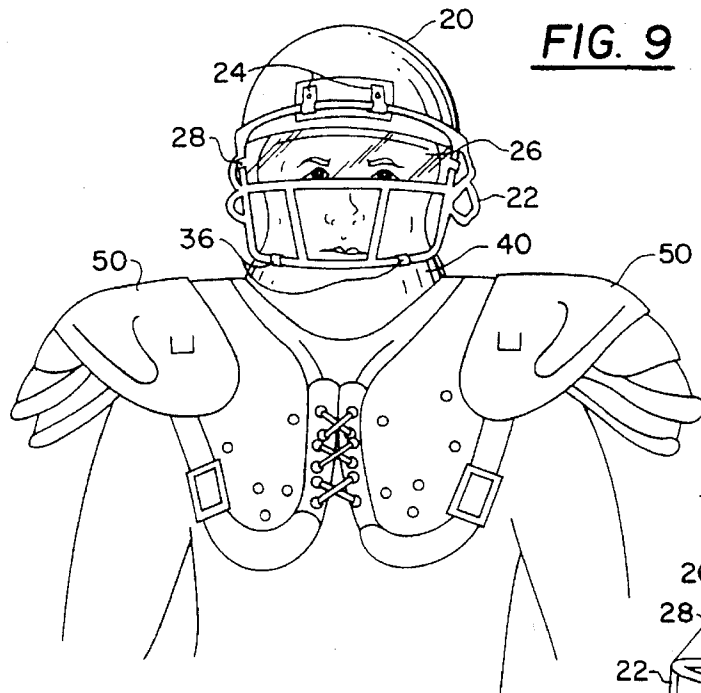


FIG. 9

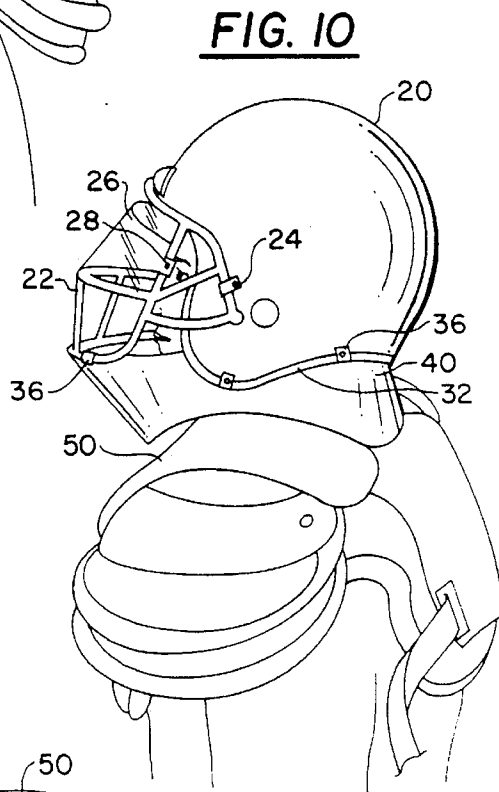


FIG. 10

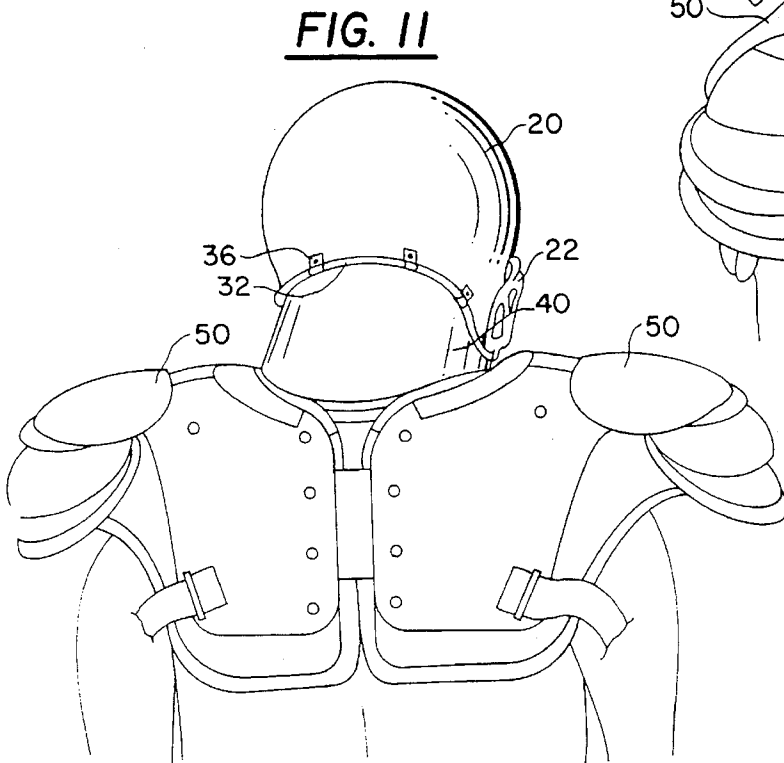


FIG. 11

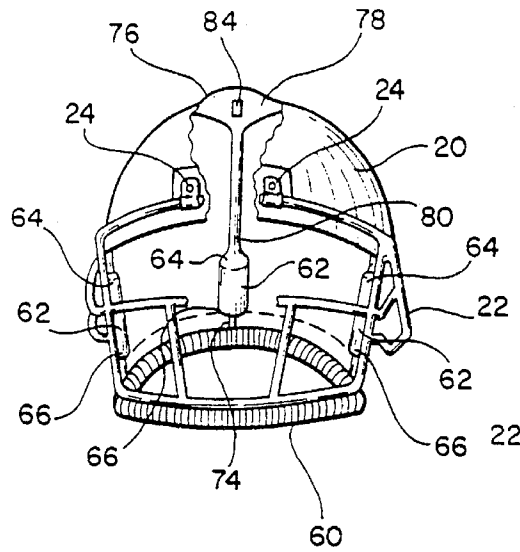


FIG. 12

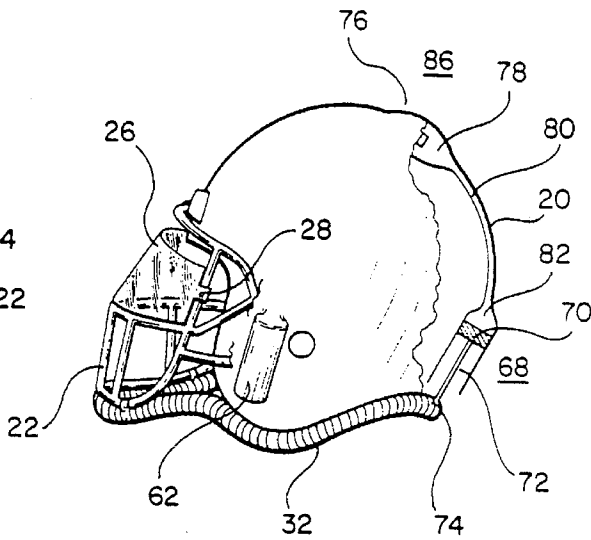


FIG. 13

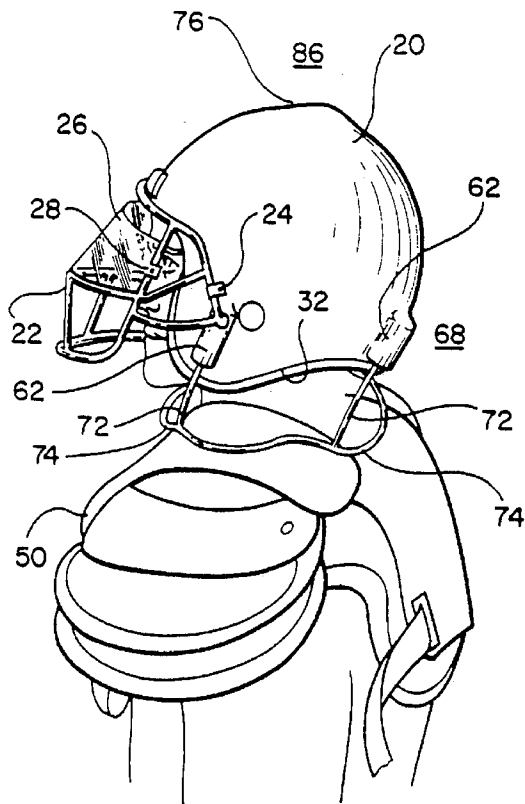


FIG. 14

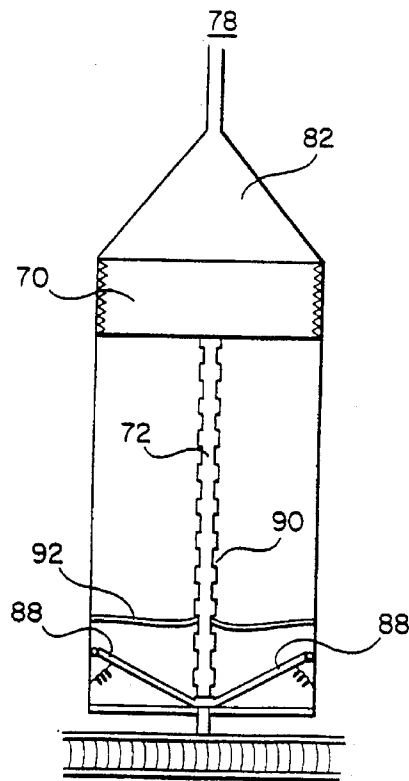


FIG. 15

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