



US005595417A

**United States Patent** [19]**Thoman et al.**[11] **Patent Number:** **5,595,417**[45] **Date of Patent:** **Jan. 21, 1997**[54] **TONNEAU COVER FOR A PICK-UP TRUCK**[76] Inventors: **David C. Thoman; Christopfer M. Thoman**, both of 623 W. Mishawaka Ave., Mishawaka, Ind. 46545

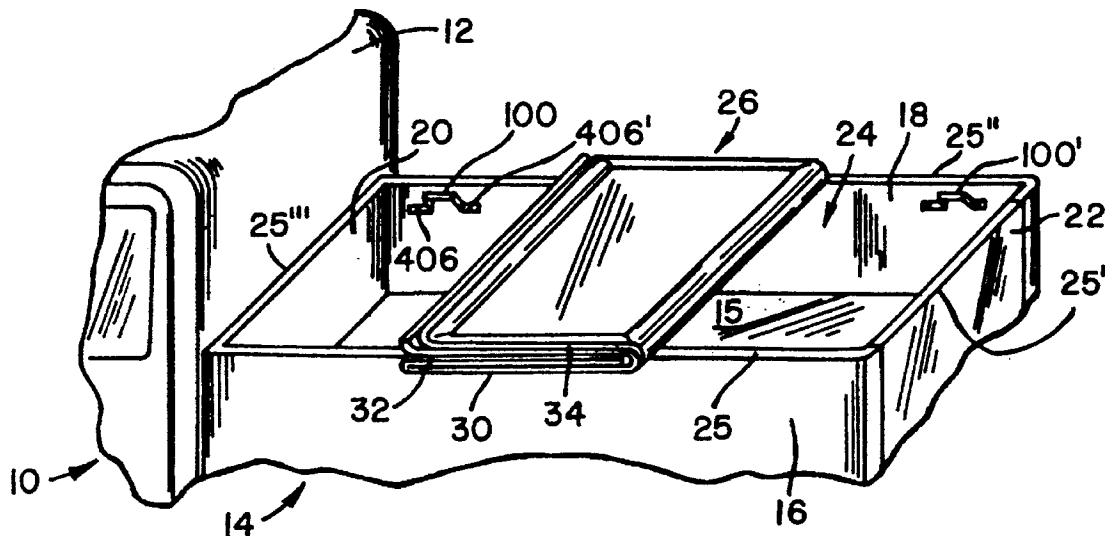
5,011,214	4/1991	Friesen	296/100
5,087,093	2/1992	Repetti	296/100
5,484,178	1/1996	Sandhu et al.	292/173

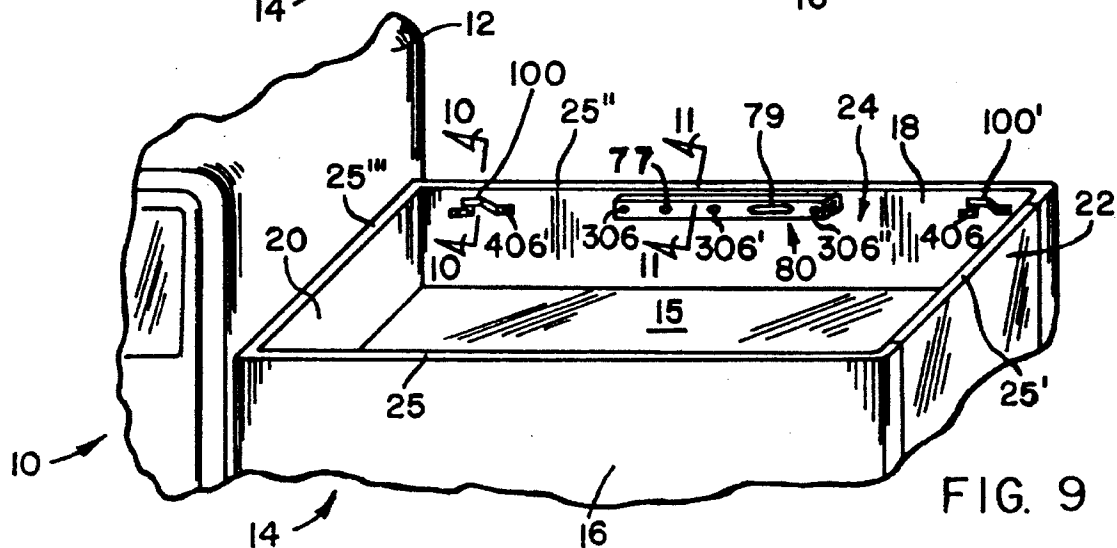
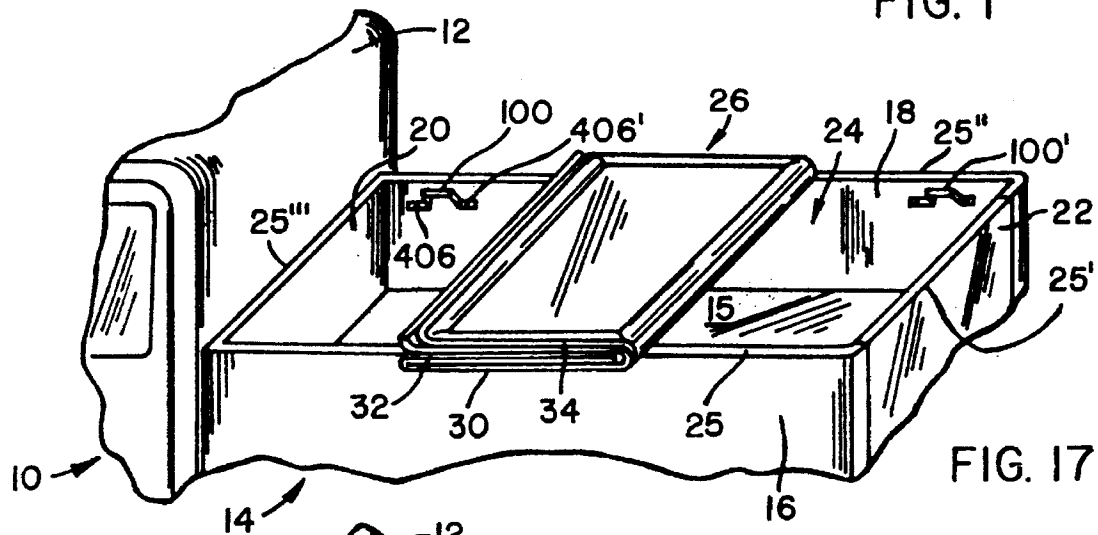
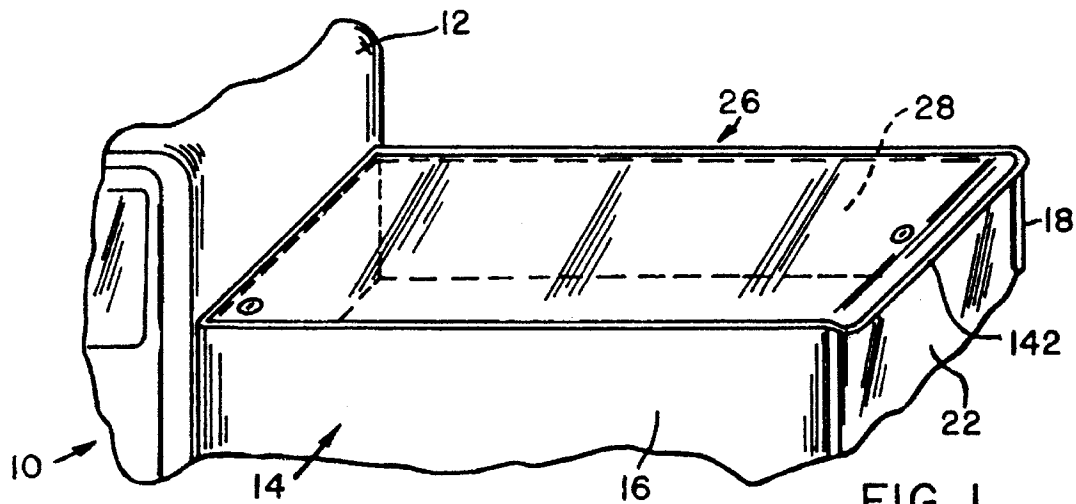
*Primary Examiner*—David M. Mitchell*Assistant Examiner*—Kia M. Robinson*Attorney, Agent, or Firm*—Lee H. McCormick, Jr.[21] Appl. No.: **507,115**[22] Filed: **Jul. 26, 1995**[51] **Int. Cl.<sup>6</sup>** ..... **B60P 7/02**[52] **U.S. Cl.** ..... **296/100; 70/167; 160/231.2; 292/213**[58] **Field of Search** ..... 296/100; 70/167, 70/168, 169, 123; 160/35, 231.1, 231.2, 230; 292/173, 198, 213[56] **References Cited****U.S. PATENT DOCUMENTS**

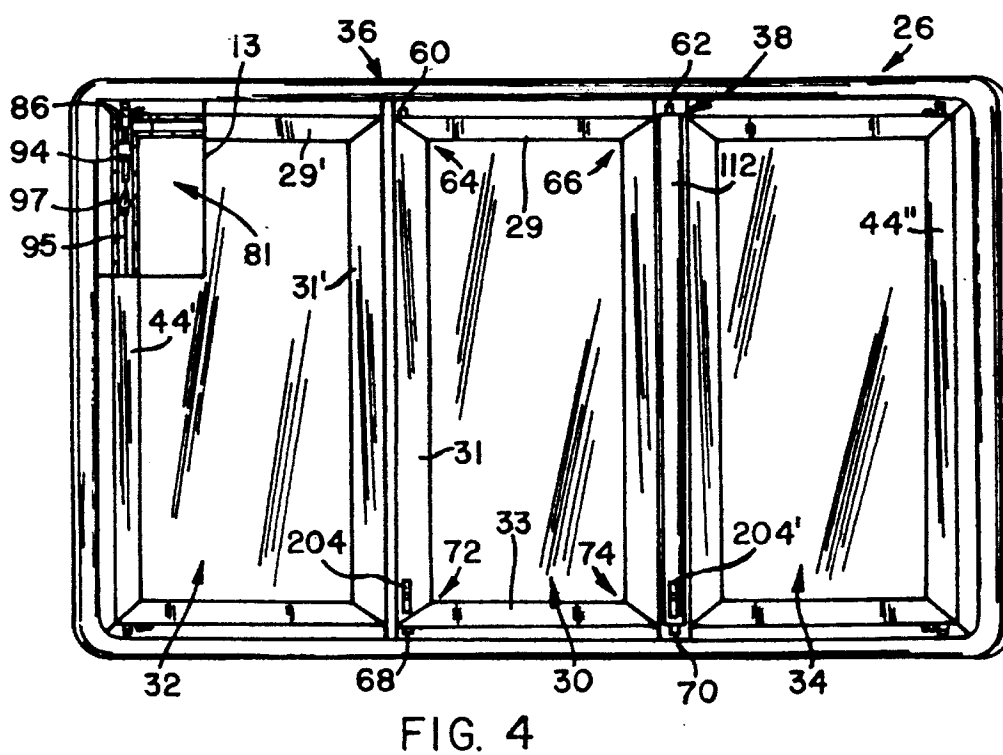
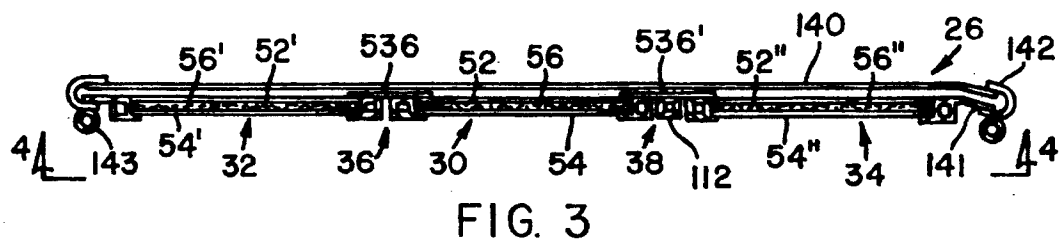
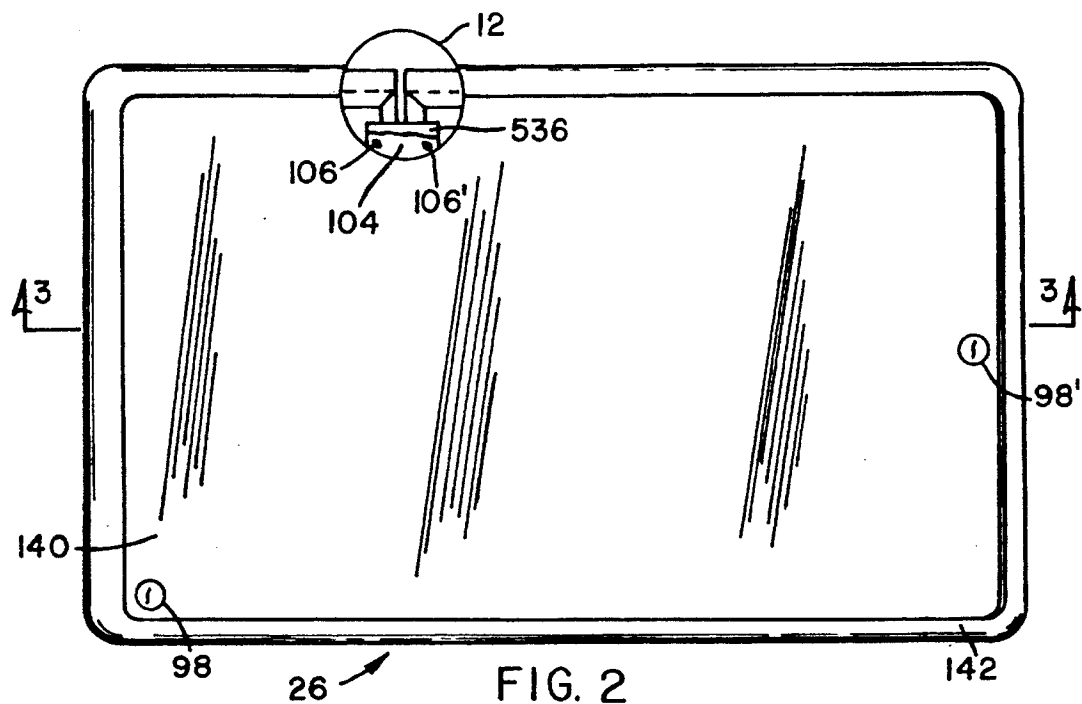
761,355	5/1904	Bucknam	292/173 X
3,054,325	9/1962	Crockwell	160/230 X
3,596,484	8/1971	Peters	292/198 X
4,418,954	12/1983	Buckley	296/100
4,550,945	11/1985	Englehardt	296/100
4,673,087	6/1987	Webb	206/600
4,747,441	5/1988	Apolzer	160/84.1
4,824,162	4/1989	Geisler	296/100
4,844,531	7/1989	Kooiker	296/100
4,861,092	8/1989	Bogard	296/100
4,946,217	8/1990	Steffens	296/100

[57] **ABSTRACT**

A tonneau cover for an open bed of a pick-up truck having a front panel, a center panel and a rear panel. Each panel is retained in separate frames defined by first, second, third and fourth reinforcing members which are held in a rectangular shape by corner members. Corner members on a first side of the frame of the center panel retain fixed pins that extend into corresponding openings in a first side wall extending from the open bed and corner members on a second side of the frame retain retractable pins which after being released from retraction extend into corresponding openings in a second side wall extending from the open bed to fix the center panel with respect to the open bed. The front and rear panels are joined to the center panel by rubber hinges. In a first position, the front panel and rear panel engage the top surface of the first and second side wall to define a closed compartment and in a second position, the front panel and rear panel rotate to overlay the center panel and form a work surface with respect to the open bed.

**20 Claims, 4 Drawing Sheets**





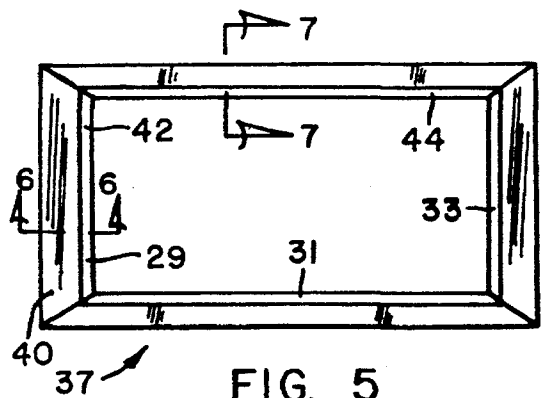


FIG. 5

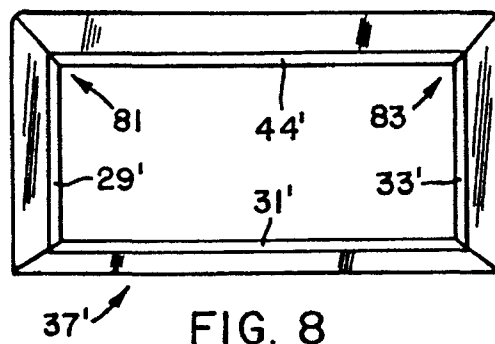


FIG. 8

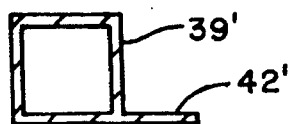


FIG. 7

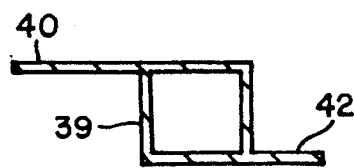


FIG. 6

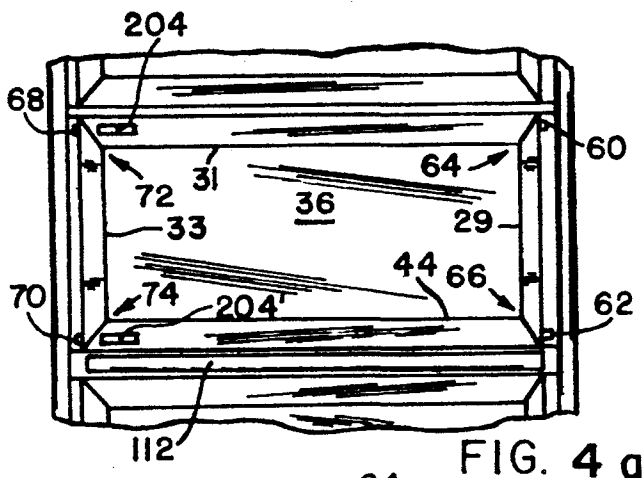


FIG. 4a

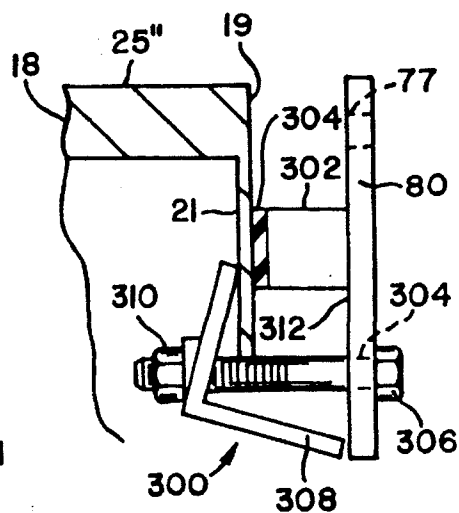


FIG. 11

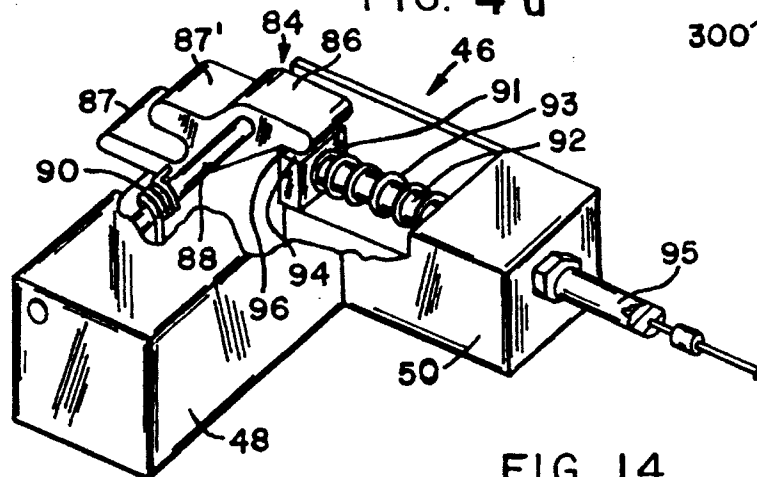


FIG. 14

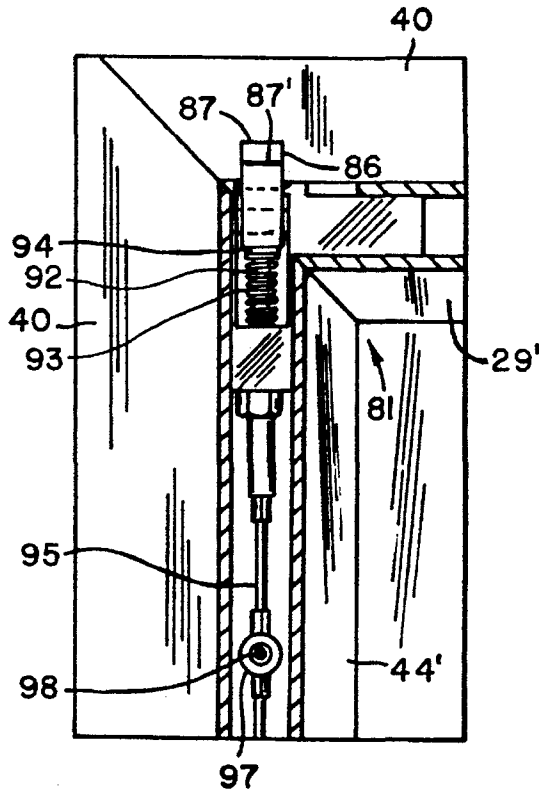


FIG. 13

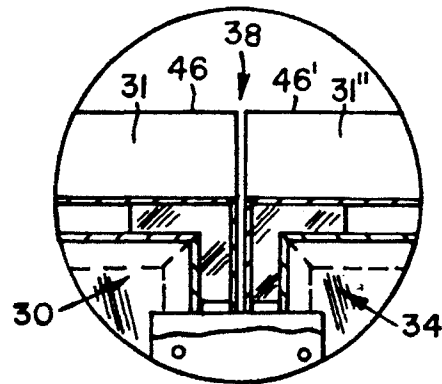


FIG. 12

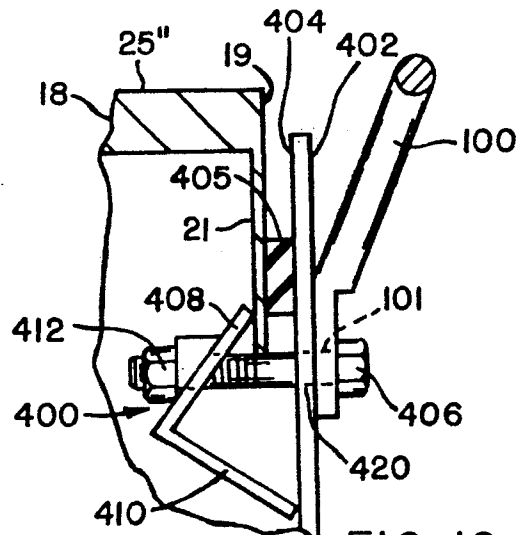


FIG. 10

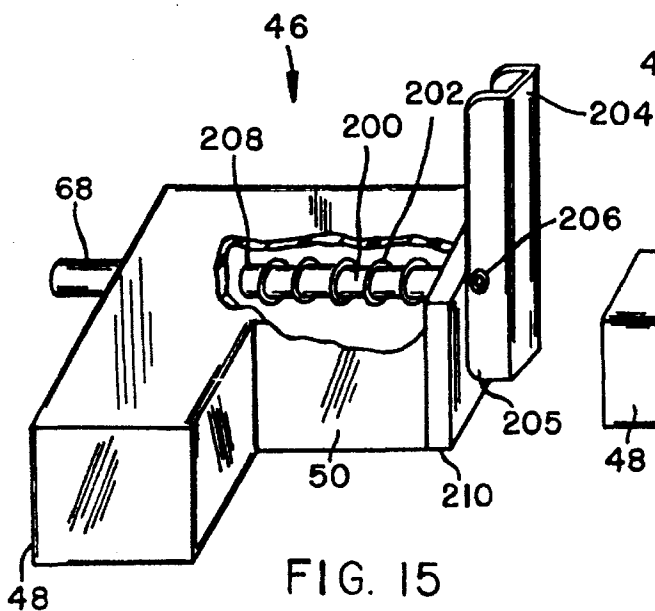


FIG. 15

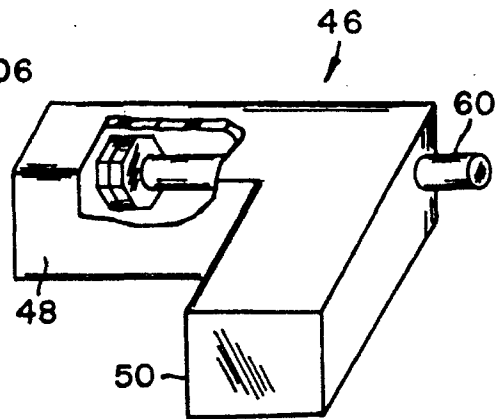


FIG. 16

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