



US00D347472S

United States Patent [19]

[11] Patent Number: **Des. 347,472**

Sunderland et al.

[45] Date of Patent: **** May 31, 1994**

- [54] **COMBINED PERISTALTIC INFUSION PUMP AND CHARGER UNIT**
- [75] Inventors: **Richard A. Sunderland, St. Charles; Clarence L. Walker, Webster Groves; Mark A. Davis, O'Fallon, all of Mo.**
- [73] Assignee: **Sherwood Medical Company, St. Louis, Mo.**
- [**] Term: **14 Years**
- [21] Appl. No.: **764,402**
- [22] Filed: **Sep. 23, 1991**

4,256,442	3/1981	Lamadrid et al.	417/477
4,278,085	7/1981	Shim	417/477 X
4,363,609	12/1982	Cosentino et al.	417/477
4,416,595	11/1983	Cromie	604/153 X
4,460,358	7/1984	Somerville et al.	604/250
4,472,116	9/1984	Wenstrup	417/477
4,479,797	10/1984	Kobayashi et al.	604/153
4,482,347	11/1984	Borsanyi	604/153
4,493,706	1/1985	Borsanyi et al.	604/153
4,515,535	5/1985	D'Silva	417/360
4,540,351	9/1985	Olson	417/476
4,552,516	11/1985	Stanley	417/477
4,558,996	12/1985	Becker	417/374
4,559,040	12/1985	Horres et al.	604/153
4,599,055	7/1986	Dykstra	417/477
4,653,987	3/1987	Tsuji et al.	417/360
4,720,249	1/1988	Krebs et al.	417/477
4,728,265	3/1988	Cannon	417/474 X
4,758,228	7/1988	Williams	604/153
4,813,855	3/1989	Leveen et al.	417/477
4,832,584	5/1989	Nassif	417/477
4,913,703	4/1990	Pasqualucci et al.	604/153
4,925,376	5/1990	Kahler	417/477
5,133,650	7/1992	Sunderland et al.	417/477

Related U.S. Application Data

- [63] Continuation-in-part of Ser. No. 683,760, Apr. 11, 1991, and a continuation-in-part of Ser. No. 689,597, Apr. 19, 1991, Pat. No. Des. 342,231, and a continuation-in-part of Ser. No. 538,791, Jun. 15, 1990, Pat. No. 5,057,081.
- [52] U.S. Cl. **D24/111**
- [58] Field of Search 128/DIG. 13; 417/234, 417/360, 411, 474, 477; 604/151, 152, 153; D24/107, 108, 111, 128; D13/107, 108

References Cited

[56]			
	U.S. PATENT DOCUMENTS		
D. 268,284	3/1983	Manno et al.	D24/111
D. 285,347	8/1986	Nelson et al.	D24/111
D. 291,119	7/1987	Campbell	D24/111
D. 306,758	3/1990	Stanley	D24/111
2,693,765	11/1954	Petri	103/149
3,848,592	11/1974	Willock	128/214 R
3,912,168	10/1975	Mullins et al.	239/102
3,927,955	12/1975	Spinosa et al.	417/477
3,963,023	6/1976	Hankinson	128/214 F
4,025,241	5/1977	Clemens	417/477
4,138,205	2/1979	Wallach	417/360
4,179,249	12/1979	Guttmann	417/477
4,184,815	1/1980	Casson et al.	417/477
4,187,057	2/1980	Xanthopoulos	417/63
4,189,286	2/1980	Murry et al.	417/477
4,201,525	5/1980	Brown et al.	417/477
4,210,138	7/1980	Jess et al.	128/214 E
4,217,993	8/1980	Jess et al.	222/14
4,231,725	11/1980	Hogan	417/477
4,239,464	12/1980	Hein	417/474

FOREIGN PATENT DOCUMENTS

0107440	5/1984	European Pat. Off. .
0173075	3/1986	European Pat. Off. .
57-203891	12/1982	Japan .
2208897	4/1989	United Kingdom .

OTHER PUBLICATIONS

"Frenta-System for Continuous Tube Feeding", Fresenius AG @1983.

Primary Examiner—Stella Reid
Assistant Examiner—Ian Simmons
Attorney, Agent, or Firm—Montgomery W. Smith; Richard D. Allison; Gene B. Kartchner

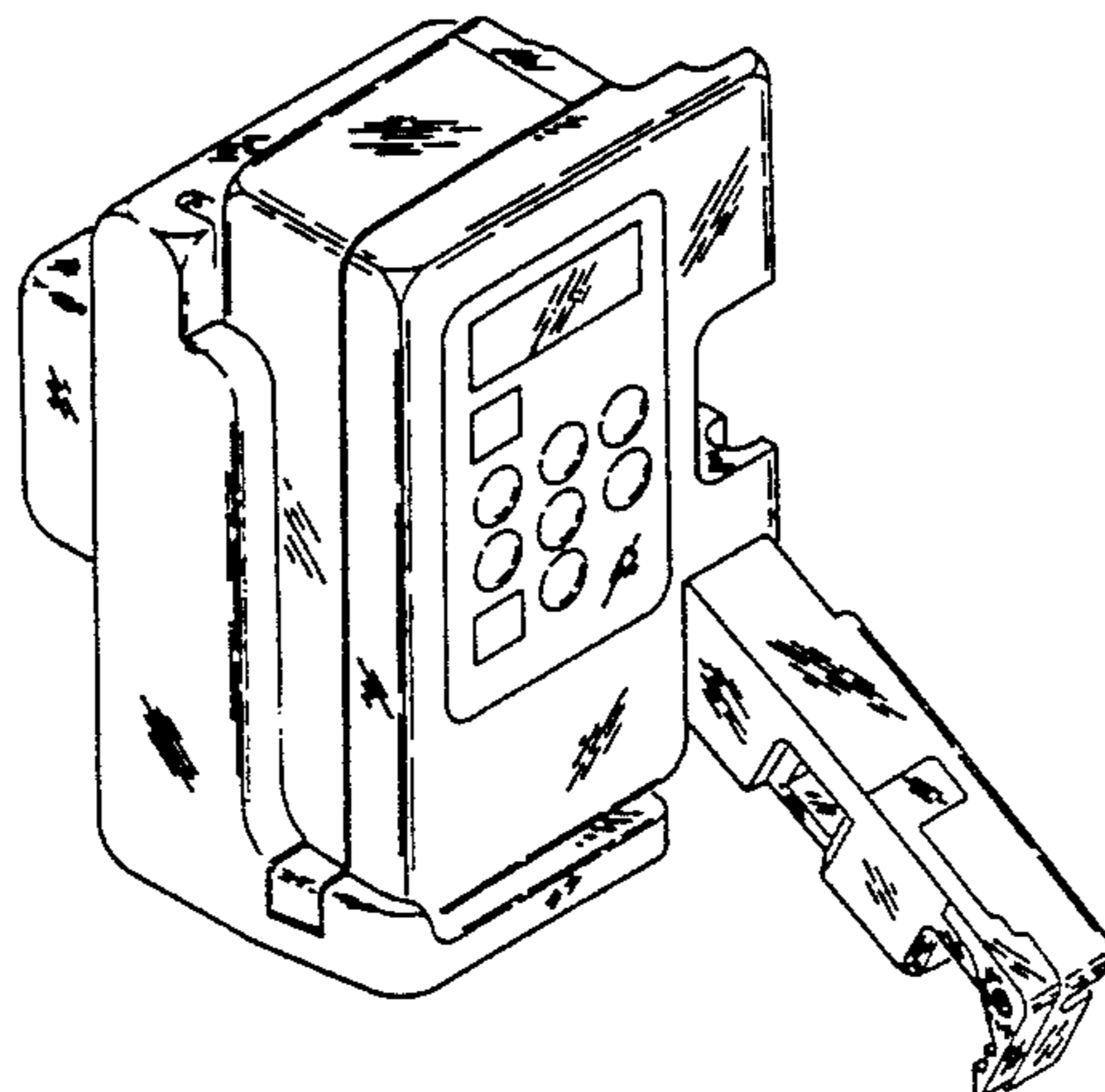
[57] CLAIM

The ornamental design for a combined peristaltic infusion pump and charger unit, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of a combined peristaltic infusion pump and charger unit showing our new design;

FIG. 2 is a rear elevational view thereof;



Des. 347,472

Page 2

FIG. 3 is a left side elevational view thereof;
FIG. 4 is a right side elevational view thereof;
FIG. 5 is a top elevational view thereof;
FIG. 6 is a bottom plan view thereof;
FIG. 7 is a top front perspective view of a combined

peristaltic infusion pump and charger unit showing our new design, with the swing arm portion of the invention in the closed position; and,
FIG. 8 is a top rear perspective view thereof with the swing arm portion of the invention in the open position.

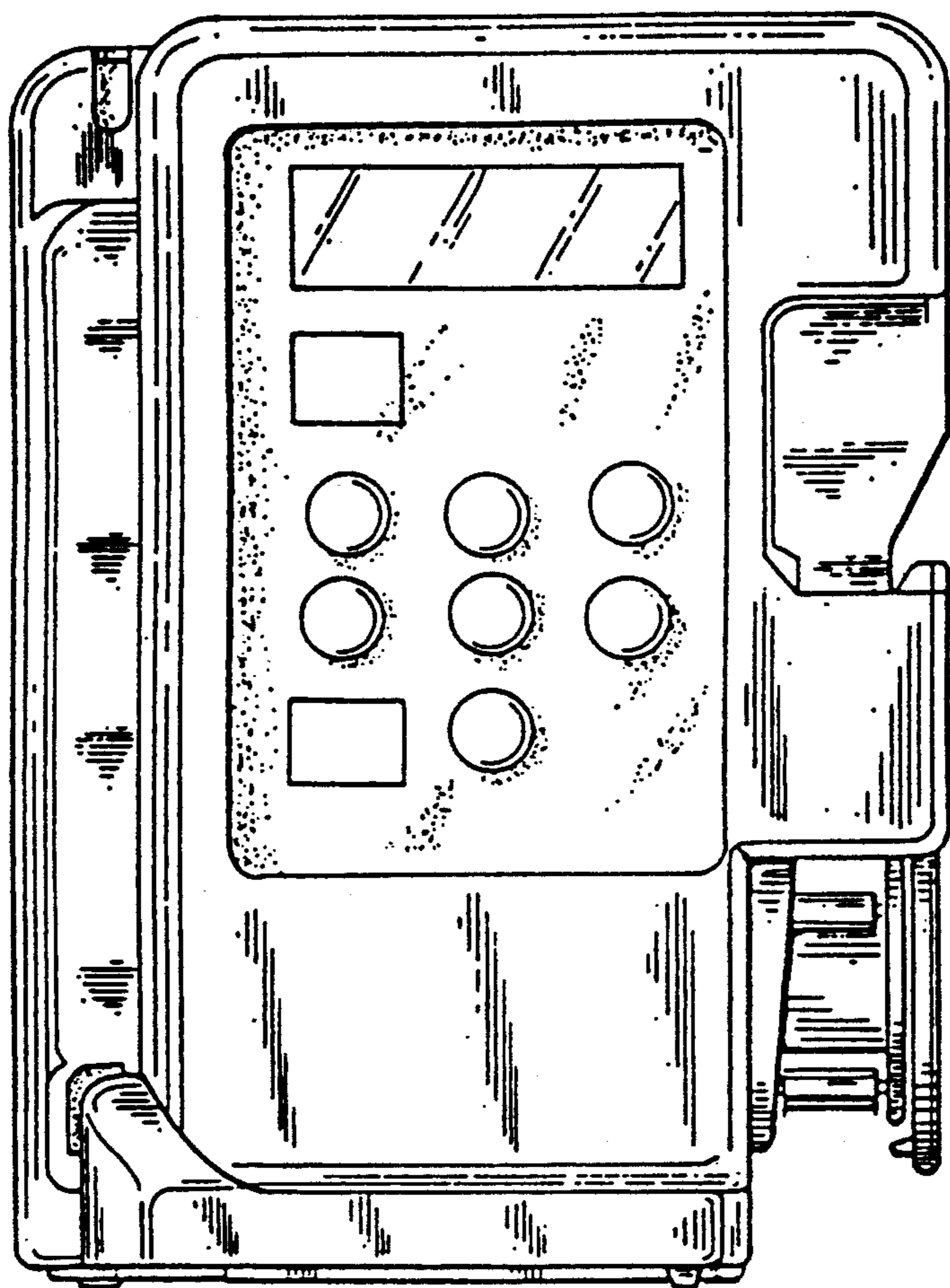


Fig. 1.

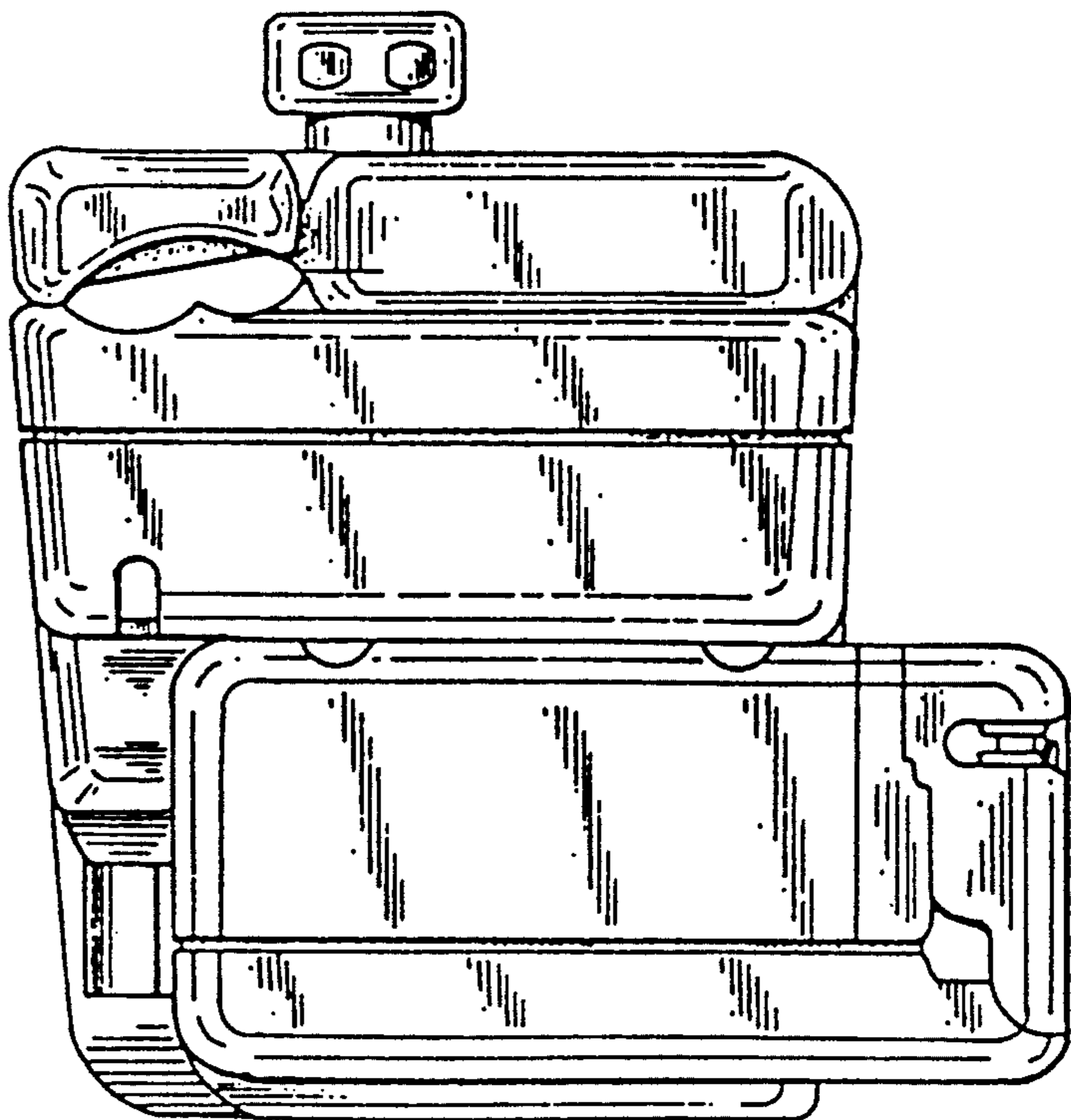


Fig. 5.

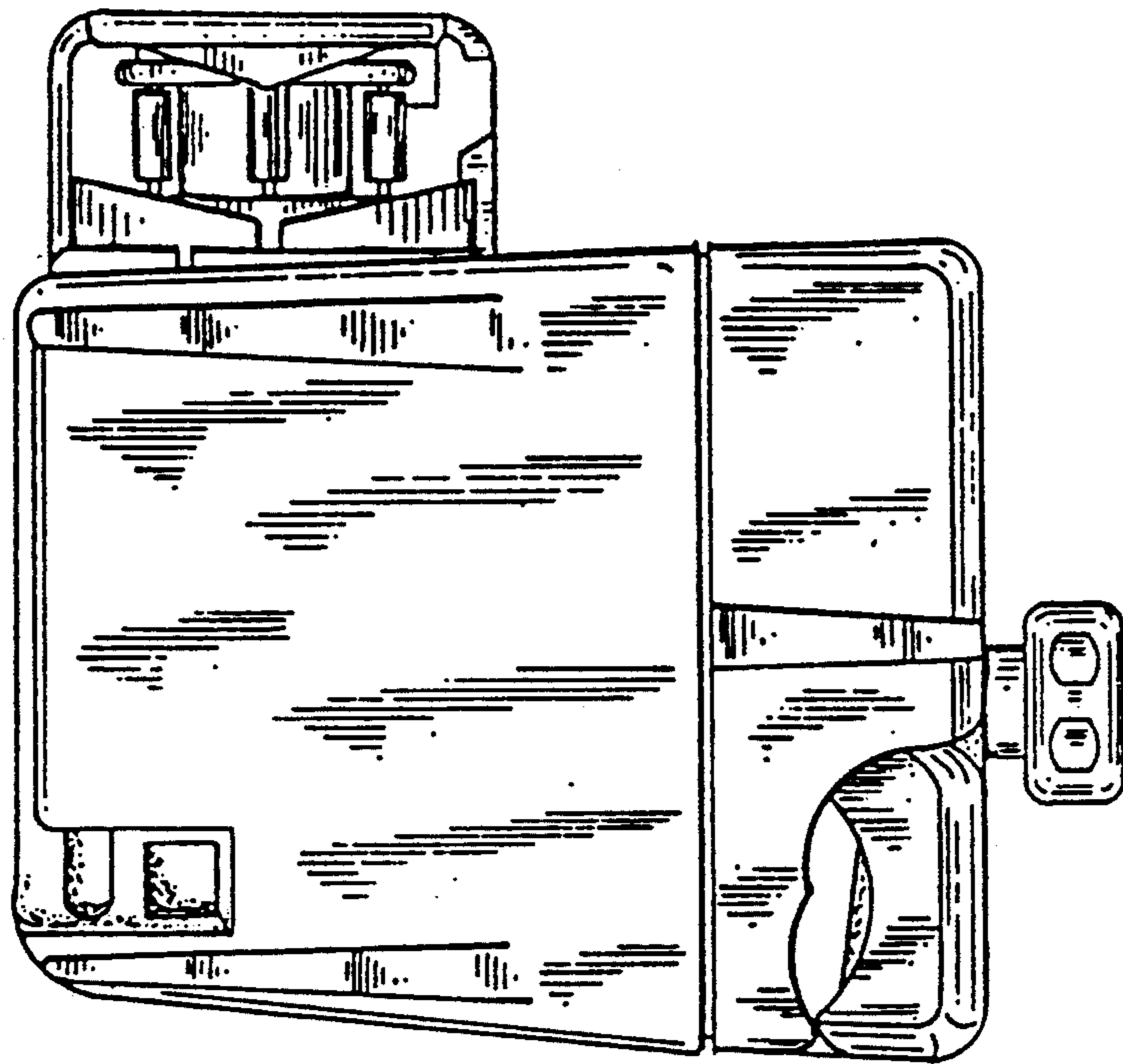


Fig. 6.

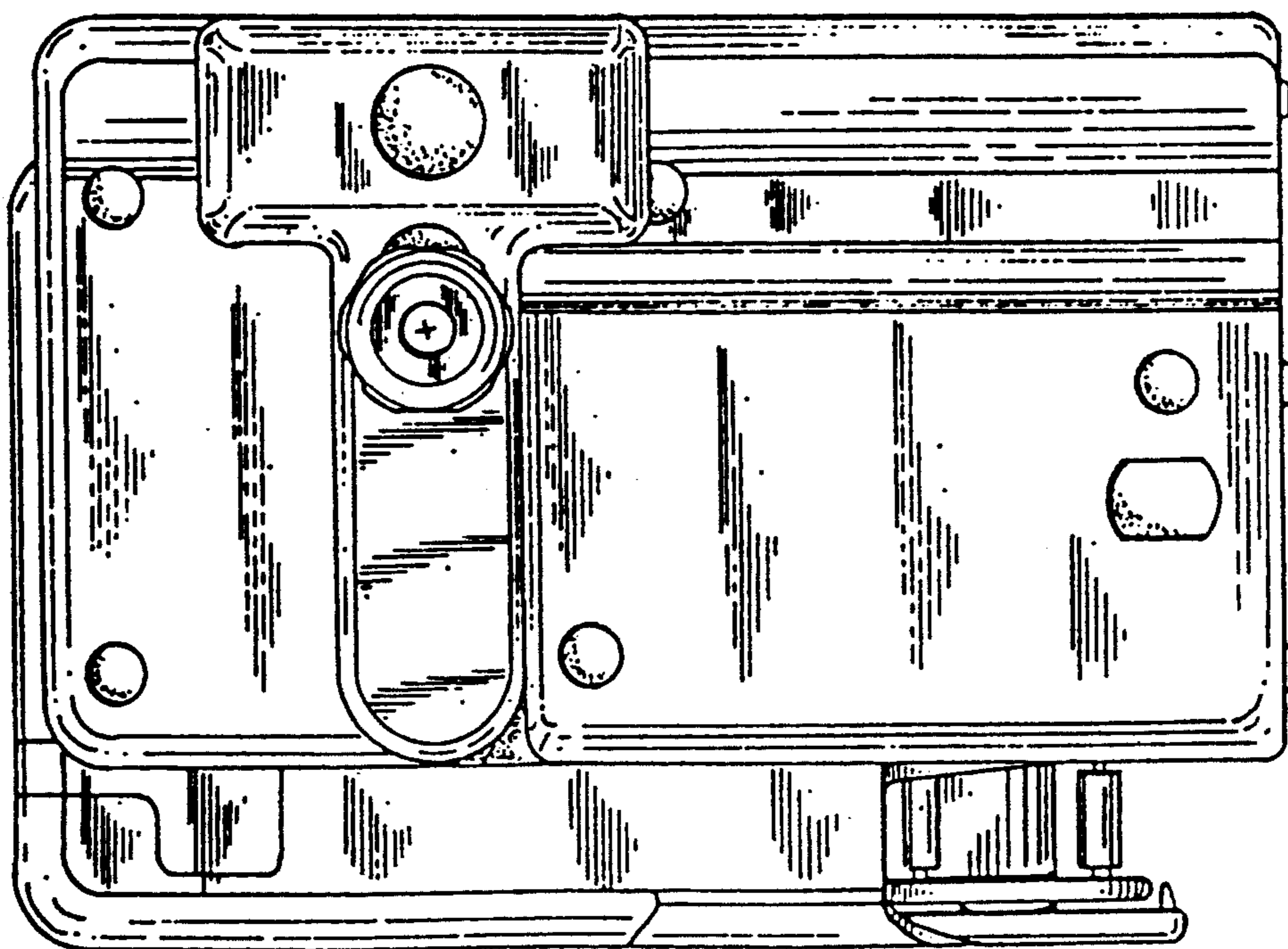


Fig. 7.

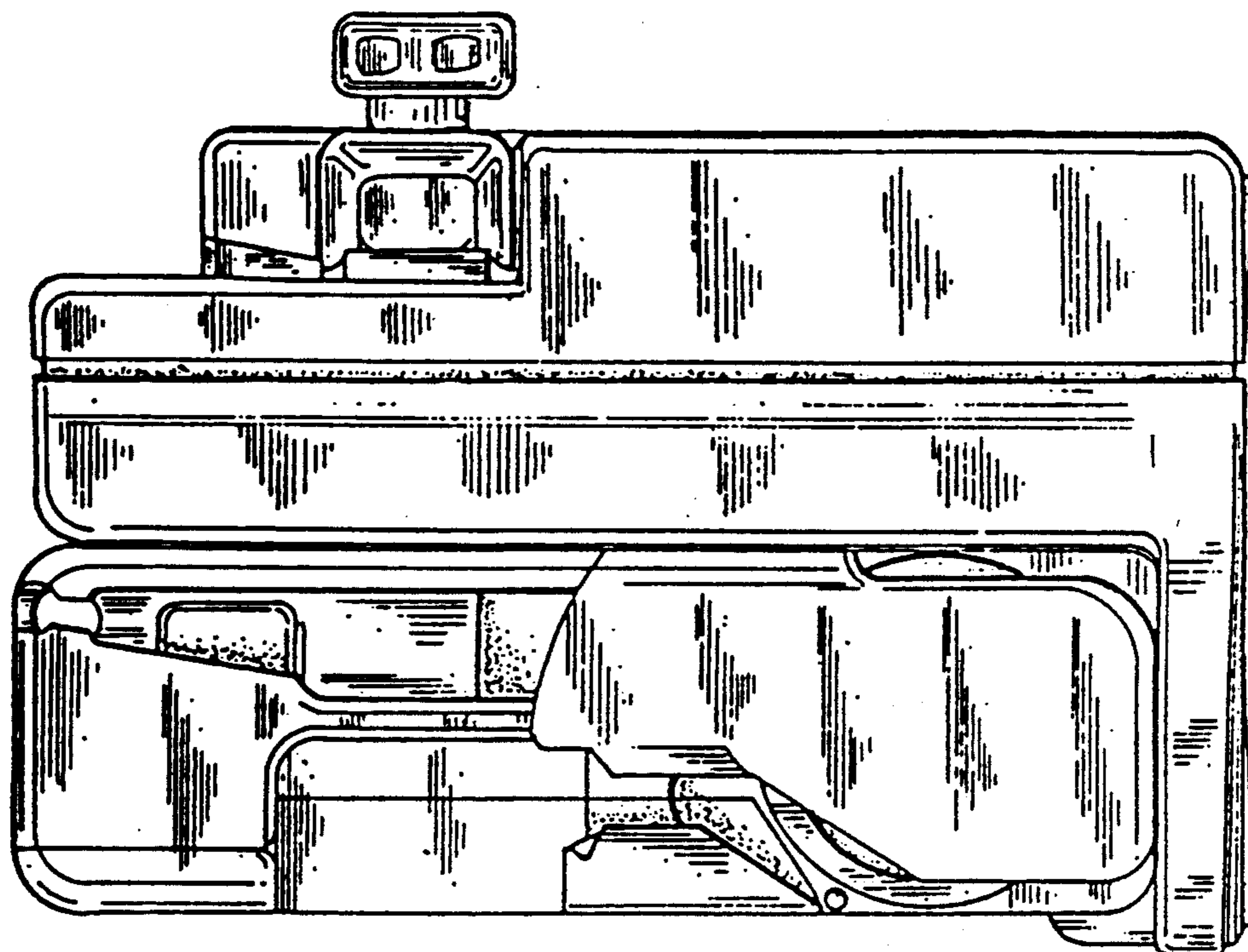


Fig. 4.

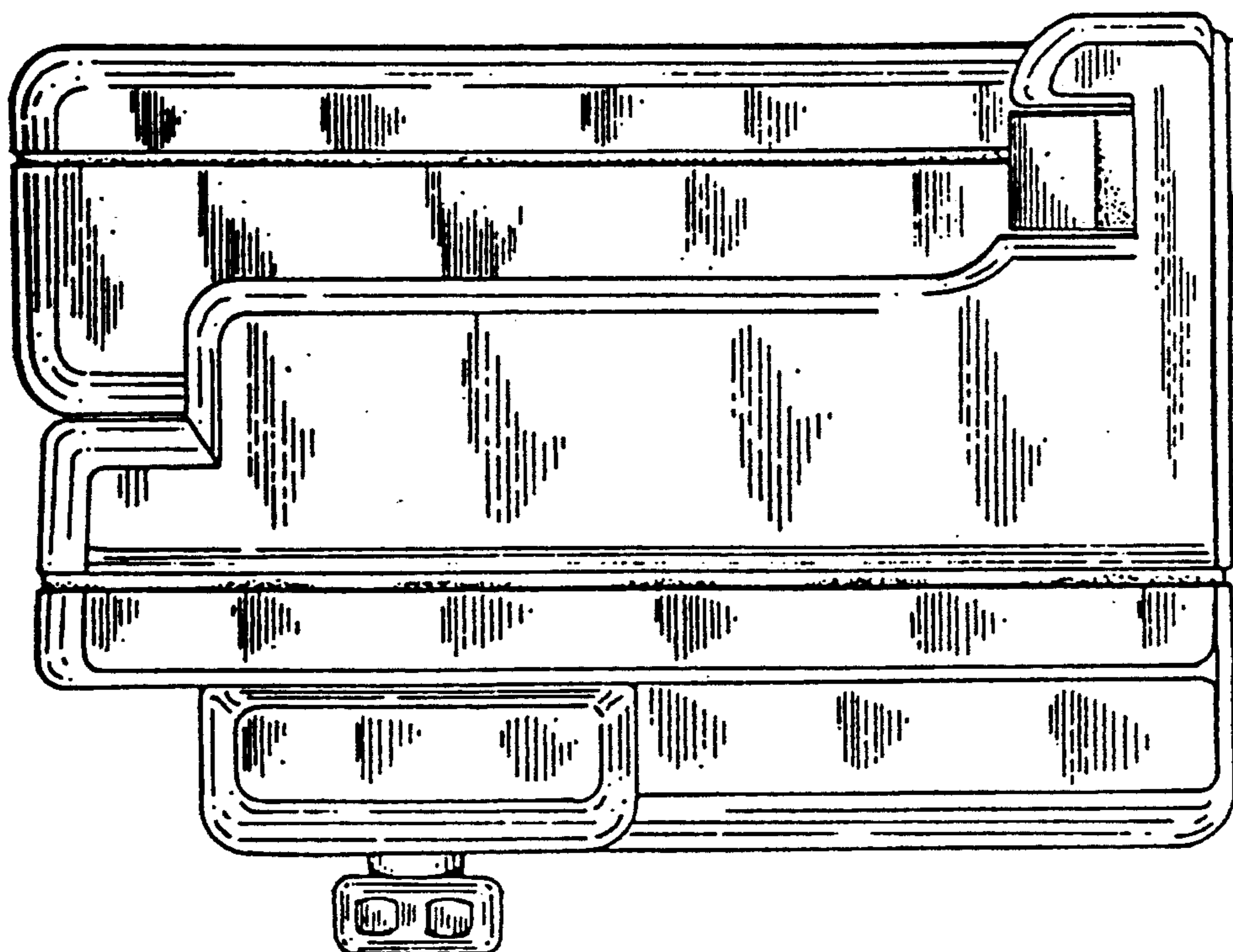


Fig. 3.

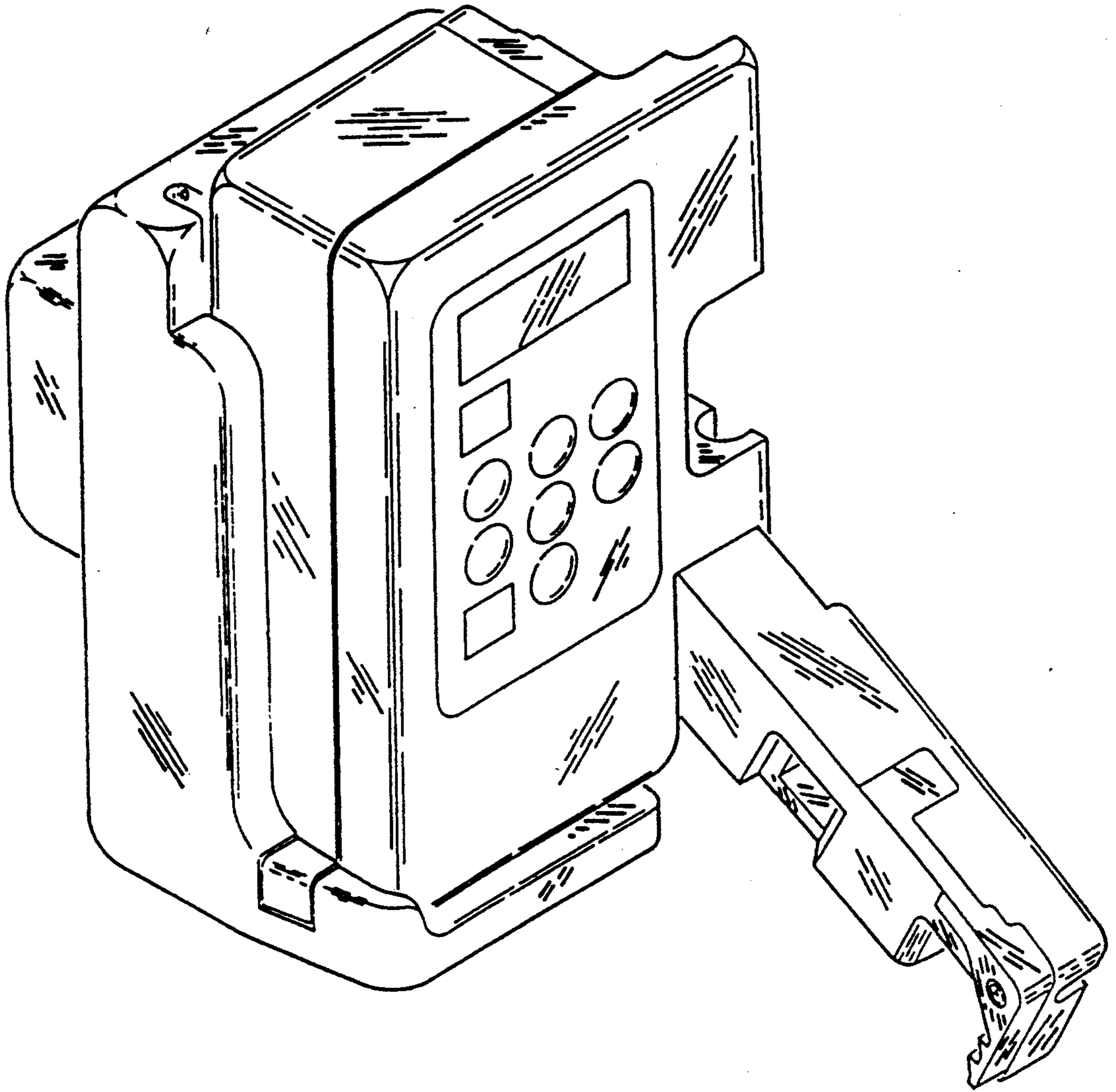


Fig. 3.

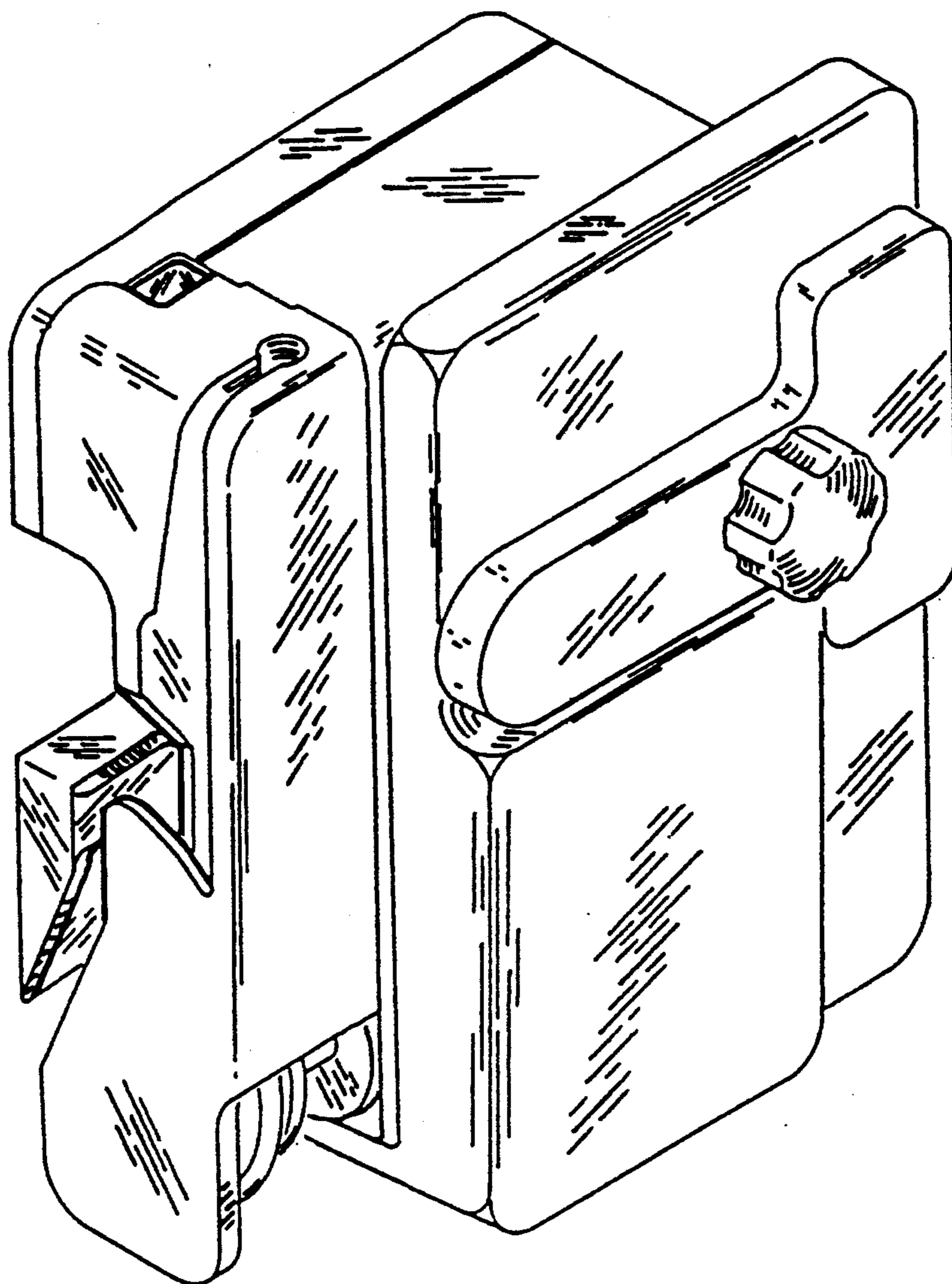


Fig. 8.