



US00D531766S

(12) **United States Design Patent** (10) **Patent No.:** **US D531,766 S**  
**Ambasz et al.** (45) **Date of Patent:** **\*\* Nov. 7, 2006**

(54) **BOWLING LANE CONDITIONING MACHINE**

(75) Inventors: **Emilio Ambasz**, Buenos Aires (AR);  
**Troy A. Recknagel**, Muskegon, MI (US)

(73) Assignee: **Brunswick Bowling & Billiards Corporation**, Lake Forest, IL (US)

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/219,520**

(22) Filed: **Dec. 17, 2004**

(51) **LOC (8) Cl.** ..... **15-05**

(52) **U.S. Cl.** ..... **D32/15**

(58) **Field of Classification Search** ..... D32/1,  
D32/15, 16, 19, 20, 22; 15/321, 353, 50.1,  
15/320, 302, 98

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

899,726 A 9/1908 Goodier  
1,130,064 A 3/1915 Buchanan  
1,995,685 A 3/1935 Perkins

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP 6315448 11/1994

**OTHER PUBLICATIONS**

“Engine Controllers—PCM555”, <http://motoron.com/pcm555.htm>, 3 pages (2002).

“To connect KOSI to lane machine”, 1 page (undated).

“L107 High-Flow Fuel Injector”, [http://www.mototron.com/prod\\_minifuel\\_long.htm](http://www.mototron.com/prod_minifuel_long.htm), 2 pages, printed on Jan. 11, 2005.

“Service Manual—Brunswick ‘90’ Lane Conditioner”, 56 pages, 1962.

“LaneRobot—Newshuttle”, Brunswick, 35 pages (undated).

Brochure, “Kegel/DBA Phoenix—S—The Name you know. The Technology you need!”, 1 page (double sided) (undated).

Brochure, “You’ve Got Control. Now Get Connected”, 1 page (double sided) (2001).

Brochure, “Kustodian—The World’s Best Selling Lane Machine”, 1 page (double sided) (2003).

Brochure, “Advanced Performance Supplies”, 4 pages (2001/2002).

(Continued)

*Primary Examiner*—Louis S. Zarfaz

*Assistant Examiner*—Kathleen Sims

(74) *Attorney, Agent, or Firm*—Brinks Hofer Gilson & Lione

(57) **CLAIM**

The ornamental design for a bowling lane conditioning machine, as shown and described.

**DESCRIPTION**

FIG. 1 is a front-left perspective view of a bowling lane conditioning machine that incorporates one embodiment of our new design in which a handle is in an up position.

FIG. 2 is a left-side view thereof.

FIG. 3 is a right-side view thereof.

FIG. 4 is a rear view thereof.

FIG. 5 is a front view thereof.

FIG. 6 is a top view thereof.

FIG. 7 is a bottom view thereof.

FIG. 8 is a front-left perspective view of a bowling lane conditioning machine that incorporates another embodiment of our new design in which a handle is in a storage position.

FIG. 9 is a left-side view thereof.

FIG. 10 is a right-side view thereof.

FIG. 11 is a rear view thereof.

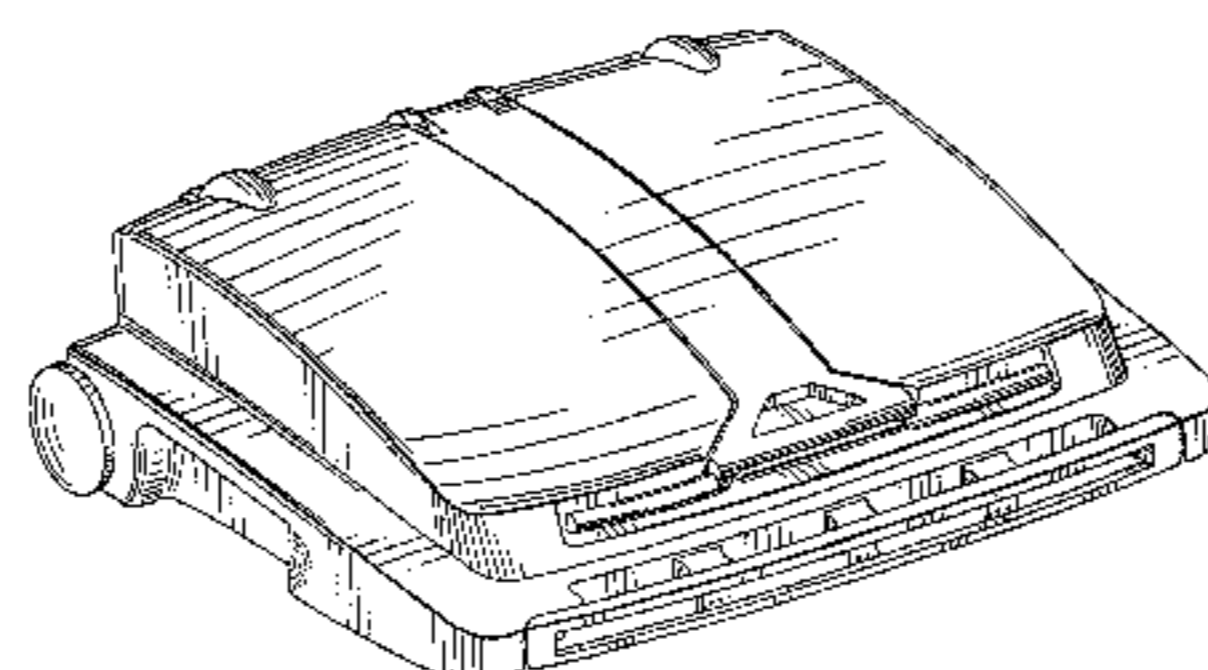
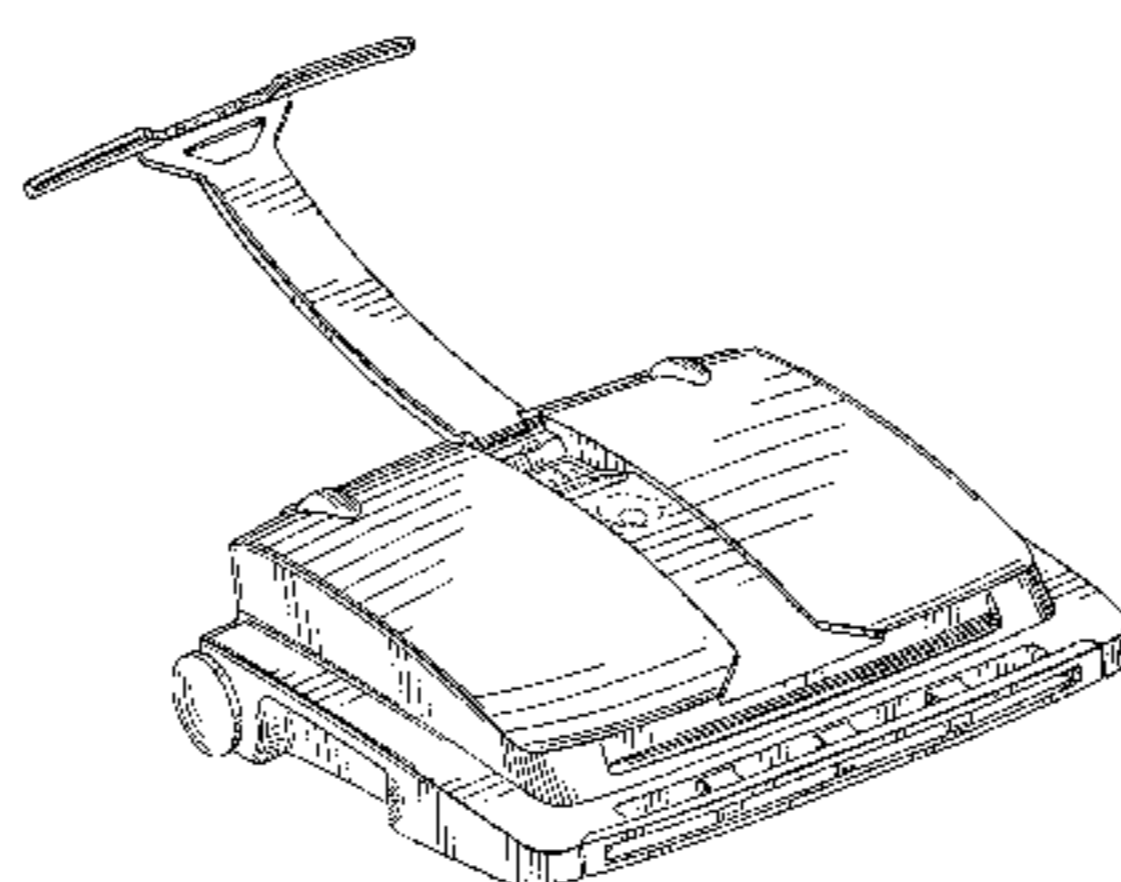
FIG. 12 is a front view thereof; and,

FIG. 13 is a top view thereof.

A bottom view thereof is shown in FIG. 7.

The broken line showing of the bowling lane conditioning machine is for illustrative purposes only and forms no part of the claimed design.

**1 Claim, 13 Drawing Sheets**



U.S. PATENT DOCUMENTS

2,394,585 A 2/1946 Bailey  
 2,622,254 A 12/1952 Mendelson  
 2,712,297 A 7/1955 McGrew  
 2,763,019 A 9/1956 Huber  
 2,893,047 A 7/1959 Swihart  
 3,083,390 A 4/1963 Wroten  
 3,099,851 A 8/1963 Unterbrink  
 3,150,396 A 9/1964 Unterbrink  
 3,150,407 A 9/1964 Mitchell  
 3,216,036 A 11/1965 Rockwood et al.  
 3,216,037 A 11/1965 Stevens et al.  
 3,217,347 A 11/1965 Domecki  
 3,321,331 A 5/1967 McNeely  
 3,377,640 A 4/1968 Rudolph  
 3,418,672 A \* 12/1968 Regan ..... 15/98  
 3,428,986 A \* 2/1969 Rudolph ..... 15/99  
 3,604,037 A 9/1971 Varne  
 3,729,769 A 5/1973 Sharpless  
 3,753,777 A 8/1973 Thomsen et al.  
 3,787,916 A 1/1974 Akagi et al.  
 3,868,738 A 3/1975 Horst et al.  
 3,942,215 A 3/1976 Olds  
 3,998,387 A 12/1976 Maasberg  
 4,069,540 A 1/1978 Zamboni  
 4,114,711 A 9/1978 Wilkins  
 4,167,798 A 9/1979 Klugl et al.  
 4,209,557 A 6/1980 Edwards  
 4,246,674 A 1/1981 Ingermann et al.  
 4,351,081 A 9/1982 Tarkinson  
 4,353,145 A 10/1982 Woodford  
 4,363,152 A 12/1982 Karpanty  
 4,369,544 A 1/1983 Parisi  
 4,463,469 A 8/1984 Green  
 4,487,788 A 12/1984 Scheie et al.  
 4,510,642 A 4/1985 Ingermann et al.  
 D281,362 S 11/1985 Ingermann et al.  
 4,562,610 A 1/1986 Davis et al.  
 4,586,213 A 5/1986 Bricher et al.  
 4,595,420 A 6/1986 Williams, III et al.  
 4,700,427 A 10/1987 Knepper  
 4,708,603 A 11/1987 Kubo  
 4,727,615 A 3/1988 Kubo  
 4,738,000 A 4/1988 Kubo  
 4,766,016 A 8/1988 Kubo  
 4,845,794 A 7/1989 Korski et al.  
 4,856,138 A 8/1989 Ingermann et al.  
 4,910,824 A 3/1990 Nagayama et al.  
 4,920,604 A 5/1990 Ingermann et al.  
 4,937,911 A 7/1990 Picchietti, Sr. et al.  
 4,956,891 A 9/1990 Wulff  
 4,959,884 A 10/1990 Ingermann et al.  
 4,962,565 A 10/1990 Ingermann et al.  
 4,980,815 A 12/1990 Davis  
 4,990,162 A 2/1991 LeBlanc et al.  
 5,063,633 A 11/1991 Ingermann et al.  
 5,092,699 A 3/1992 Silvenis  
 5,109,791 A 5/1992 Matsumoto et al.  
 5,133,280 A 7/1992 Kubo  
 5,161,277 A 11/1992 Ingermann et al.  
 5,181,290 A 1/1993 Davis et al.  
 5,185,901 A 2/1993 Davis et al.  
 5,243,728 A 9/1993 Smith et al.  
 5,274,871 A 1/1994 Smith et al.

D344,163 S \* 2/1994 Joines ..... D32/19  
 5,287,581 A 2/1994 Lo  
 5,327,609 A 7/1994 Bierma et al.  
 5,455,977 A 10/1995 Caffrey et al.  
 5,510,149 A 4/1996 Schucker et al.  
 5,517,709 A 5/1996 Caffrey et al.  
 5,629,049 A 5/1997 Caffrey et al.  
 5,641,538 A 6/1997 Caffrey et al.  
 5,650,012 A 7/1997 Davis  
 5,679,162 A 10/1997 Caffrey et al.  
 5,729,855 A 3/1998 Davis  
 5,753,043 A 5/1998 Davis  
 5,761,762 A 6/1998 Kubo  
 5,935,333 A 8/1999 Davis  
 6,090,203 A 7/2000 Gebhardt et al.  
 6,223,378 B1 5/2001 Watellier  
 6,261,463 B1 7/2001 Jacob et al.  
 6,383,290 B1 5/2002 Davis et al.  
 6,443,526 B1 9/2002 Scarlett  
 6,450,892 B1 9/2002 Burkholder et al.  
 6,615,434 B1 9/2003 Davis et al.  
 6,685,778 B1 2/2004 Davis et al.  
 6,736,900 B1 5/2004 Isogai et al.  
 6,790,282 B1 9/2004 Davis et al.  
 6,923,863 B1 \* 8/2005 Baker et al. .... 118/207  
 6,939,404 B1 \* 9/2005 Davis et al. .... 118/207  
 2002/0170130 A1 11/2002 Shinler  
 2003/0206304 A1 11/2003 Davis et al.  
 2004/0010873 A1 \* 1/2004 Davis et al. .... 15/98  
 2005/0081782 A1 \* 4/2005 Buckley et al. .... 118/207  
 2005/0217700 A1 \* 10/2005 Davis et al. .... 134/10  
 2005/0229340 A1 \* 10/2005 Sawalski et al. .... 15/50.3  
 2005/0255248 A1 \* 11/2005 Baker et al. .... 427/356

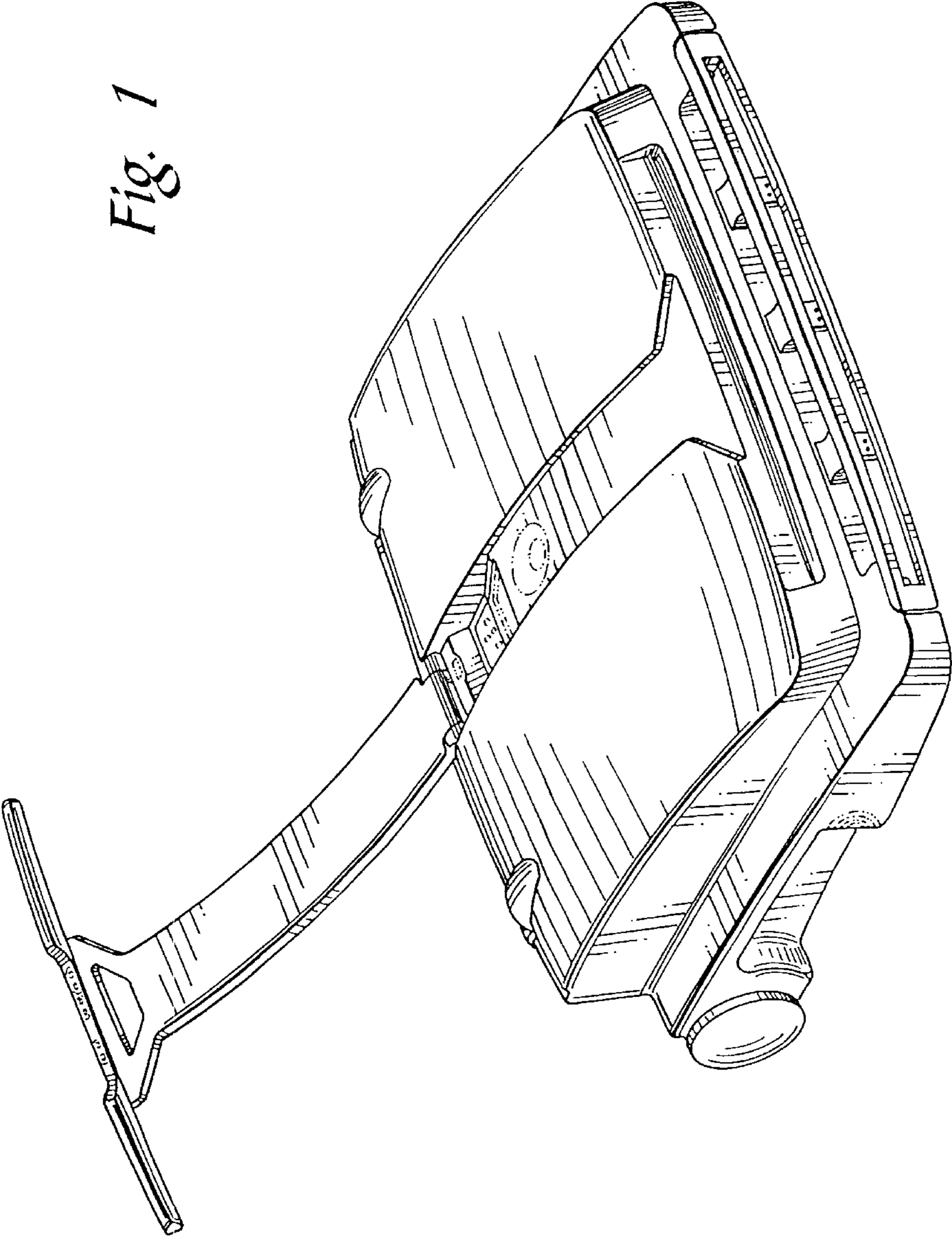
OTHER PUBLICATIONS

Brochure, "Kegel/DBA—A Great Machine Just Got Better!", 1 page (double sided) (undated).  
 Brochure, "Every Center Needs a Great . . . Mechanik", 1 page (double sided) (2003).  
 Photograph, "The Phoenix S", 1 page (photo taken Dec. 22, 2003).  
 Manual, "Century Chairman", 14 pages (undated).  
 Photographs, "Century Chairman", 4 pages (photos taken Jul. 23, 2004).  
 Brochure, "Century—The Chairman™ Performance System", 11 pages (undated).  
 Brochure, "LEVAB International—No Buffers No Rollers No Wicks!", 13 pages (undated).  
 "Operating Instructions—LEVAB International X-Treme", 52 pages, (1997).  
 "Operating Instructions—LEVAB International—Lane Liner Advanced Lane Conditioning System", 18 pages (1997/1998).  
 Brochure, "Kustodian Plus", 2 pages (undated).  
 U.S. Appl. No. 10/934,005; entitled, "Apparatus and Method for Conditioning a Bowling Lane Using Precision Delivery Injectors"; inventors: George W. Buckley, Roy A. Burkholder, Richard A. Davis, Steven J. Gonring, Mark H. Meade, Patrick J. Mitchell, and Troy A. Recknagel; filed Sep. 2, 2004.

\* cited by examiner



*Fig. 1*



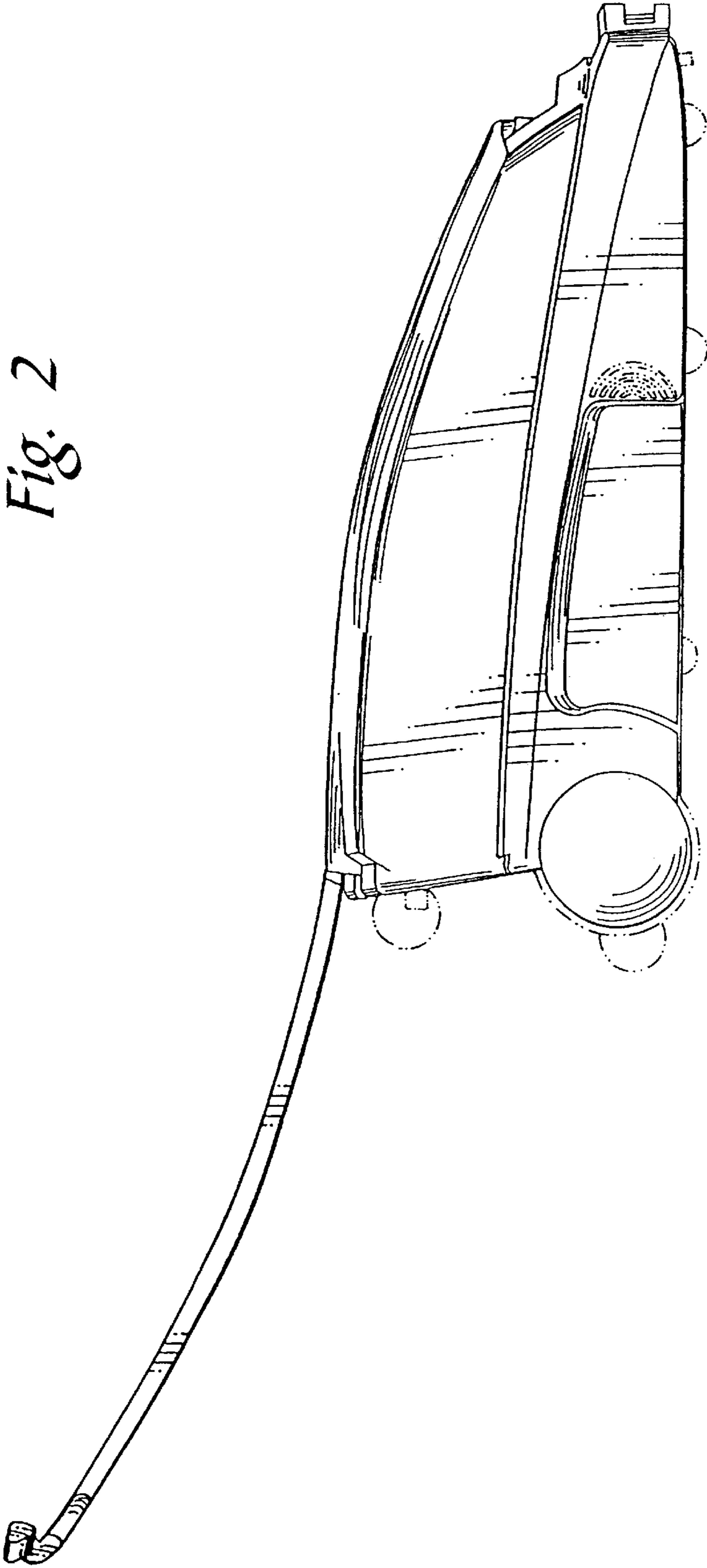


Fig. 2

Fig. 3

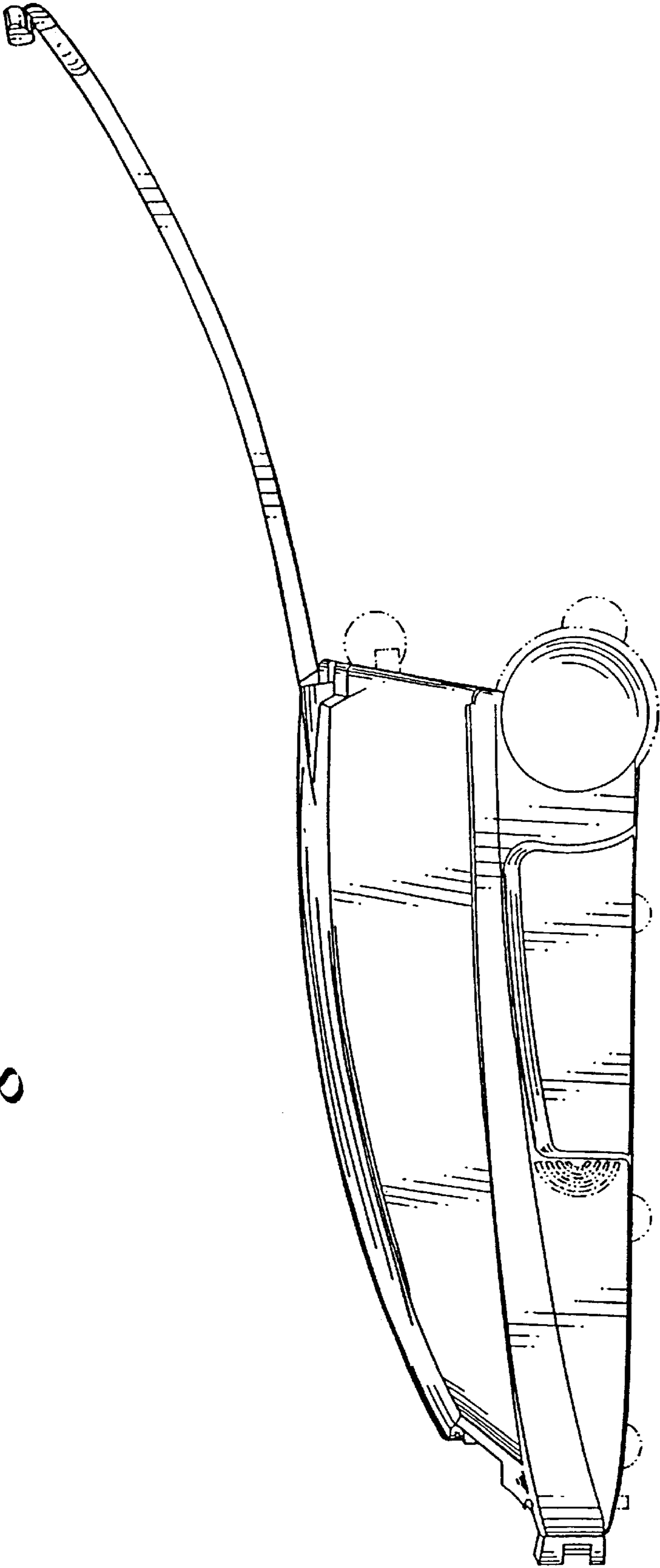


Fig. 4

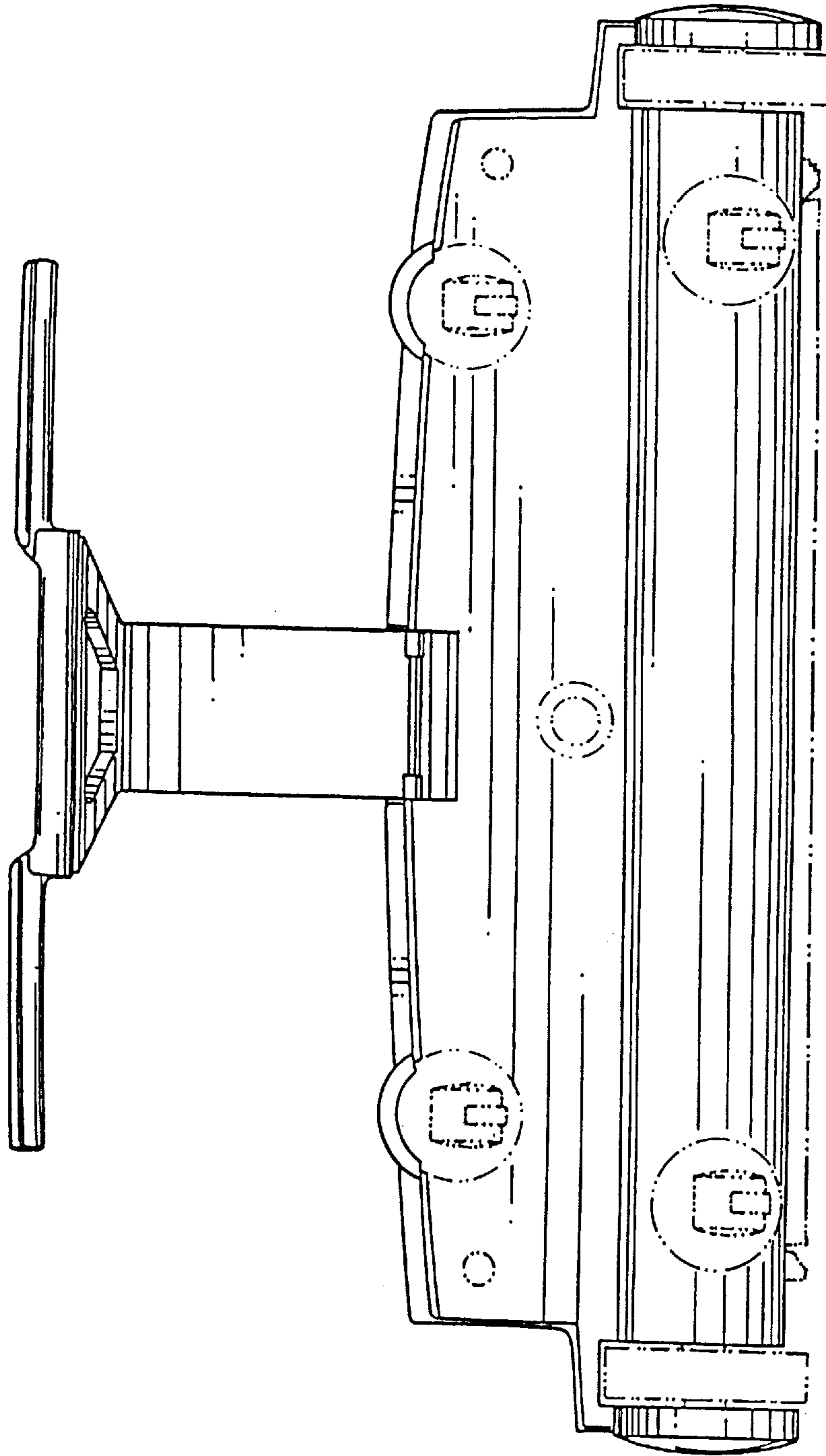
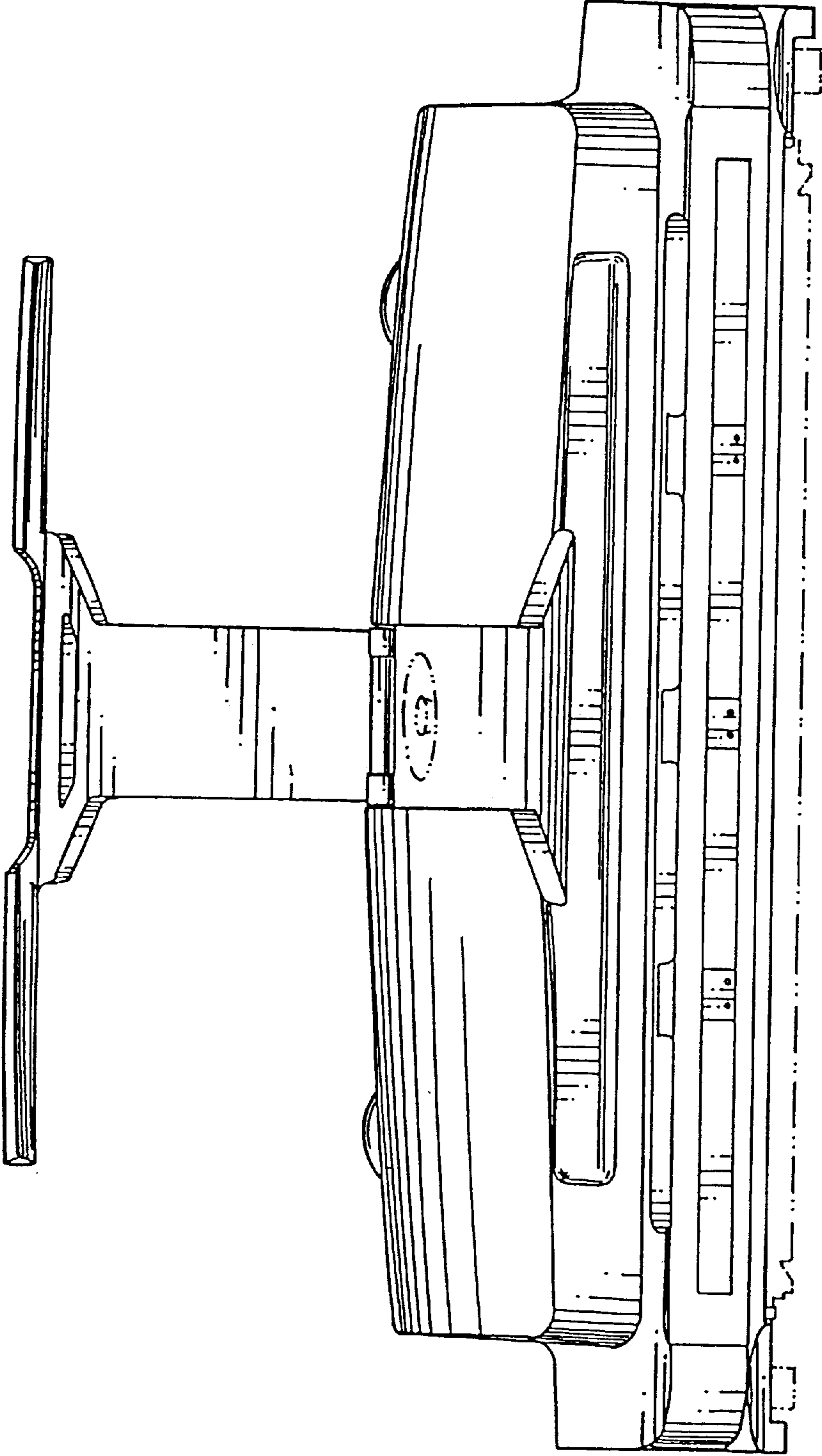
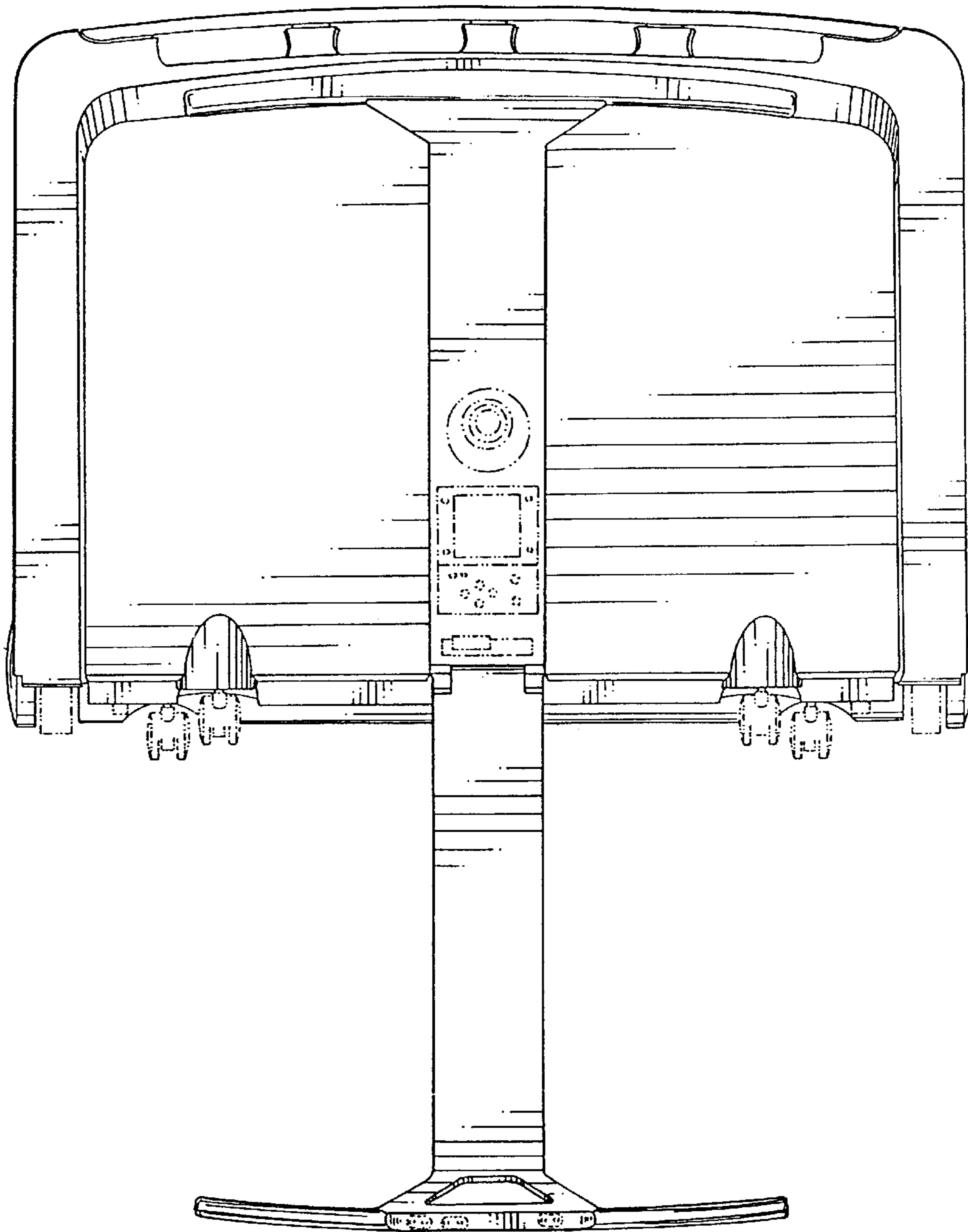


Fig. 5

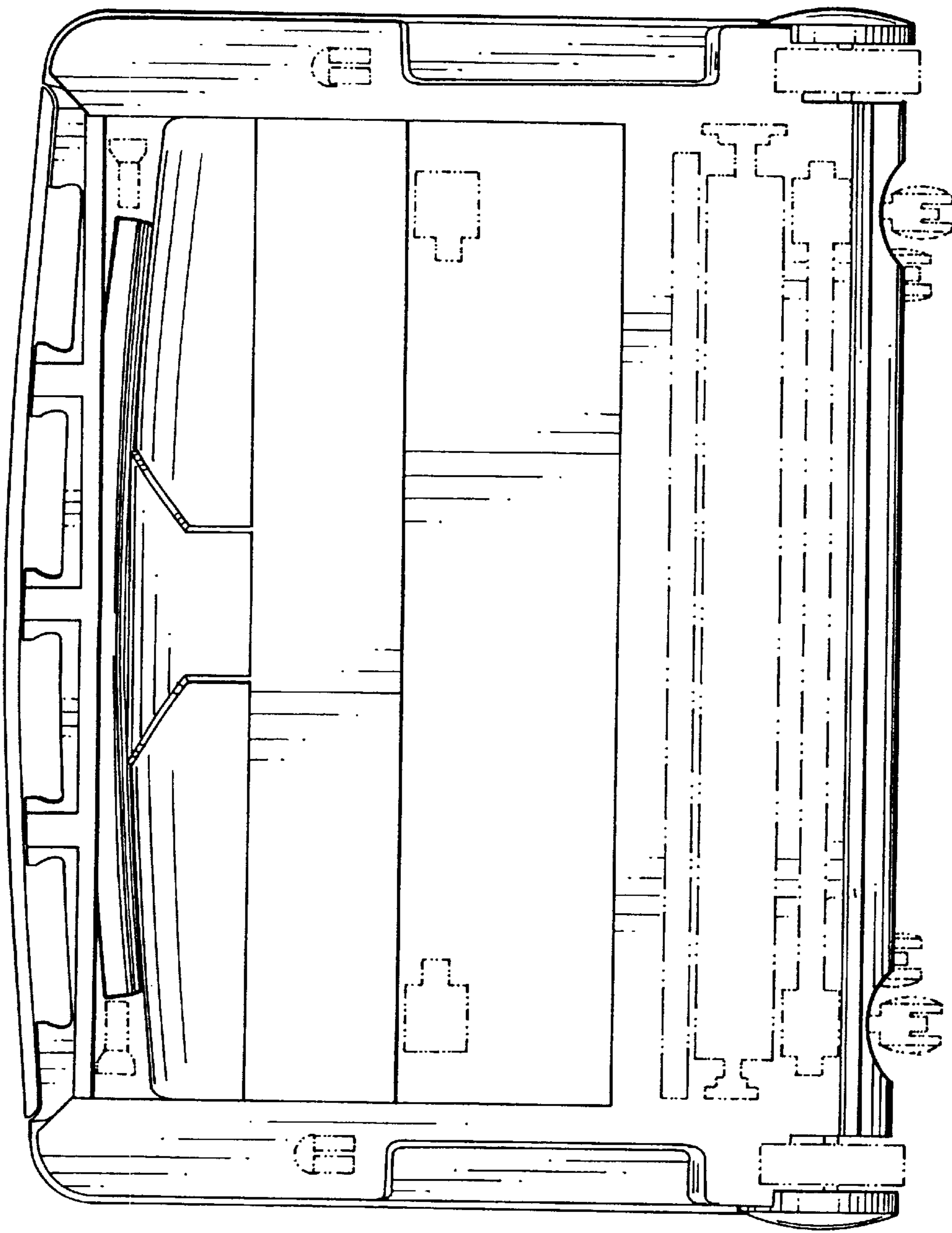




*Fig. 6*



*Fig. 7*



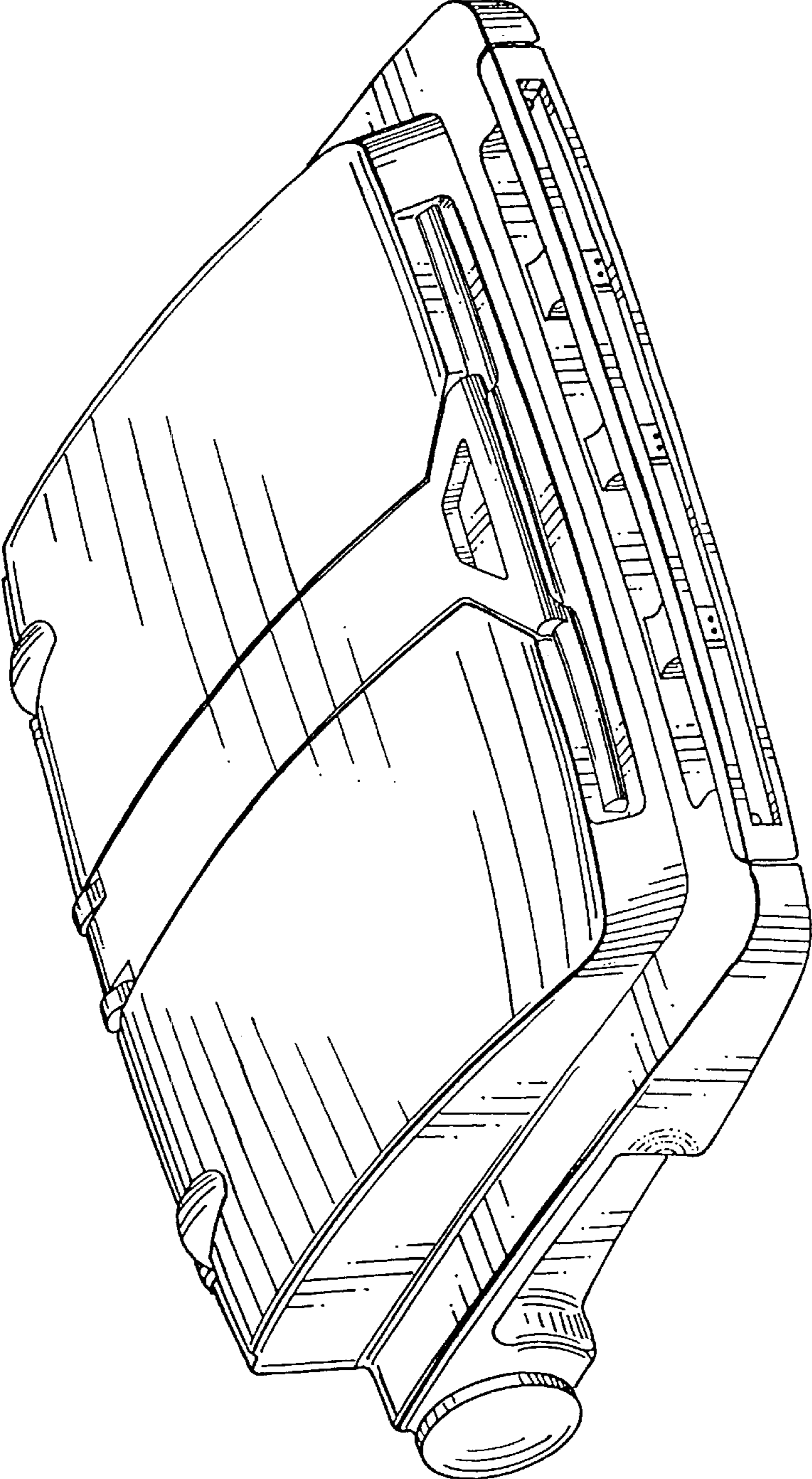


Fig. 8

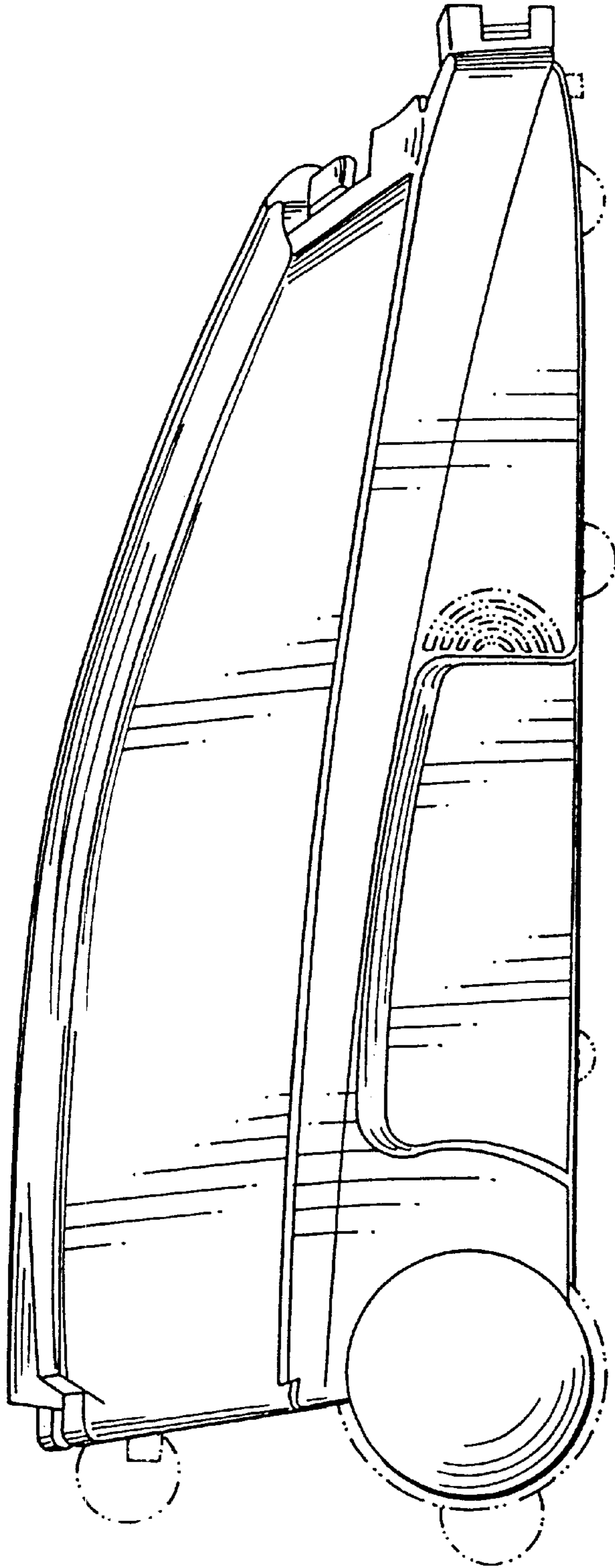
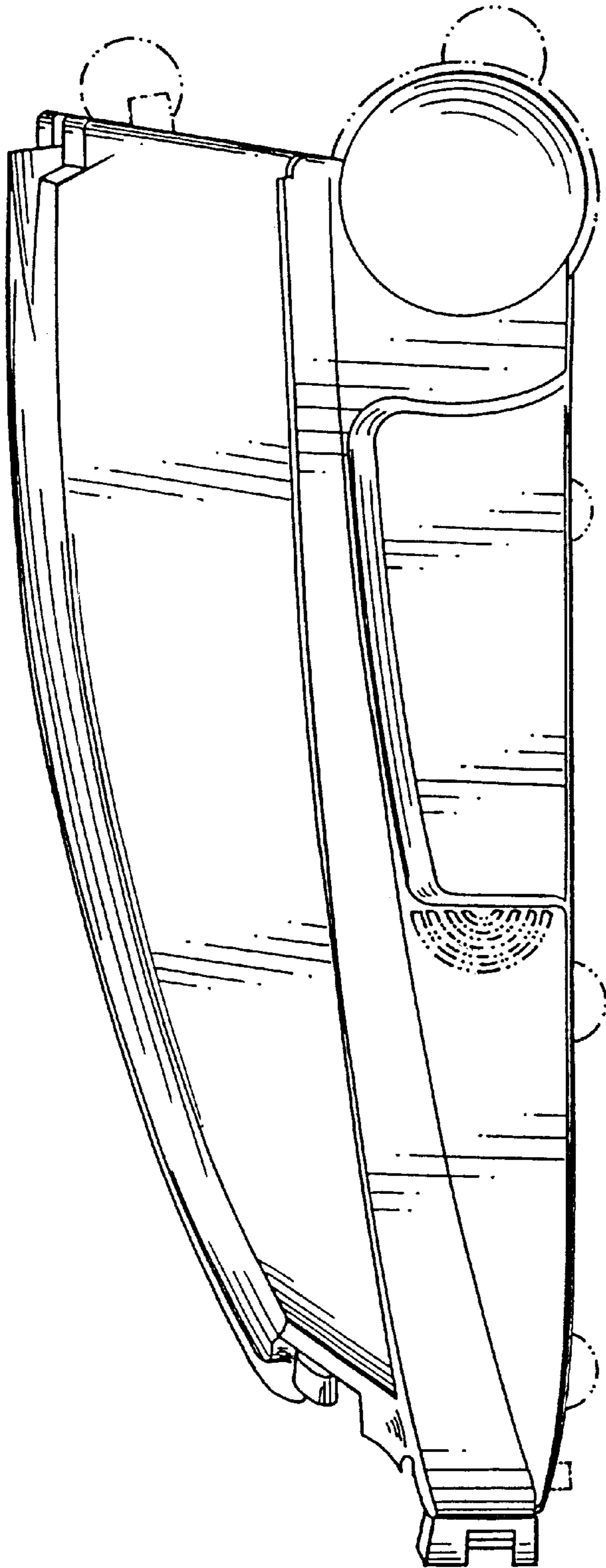
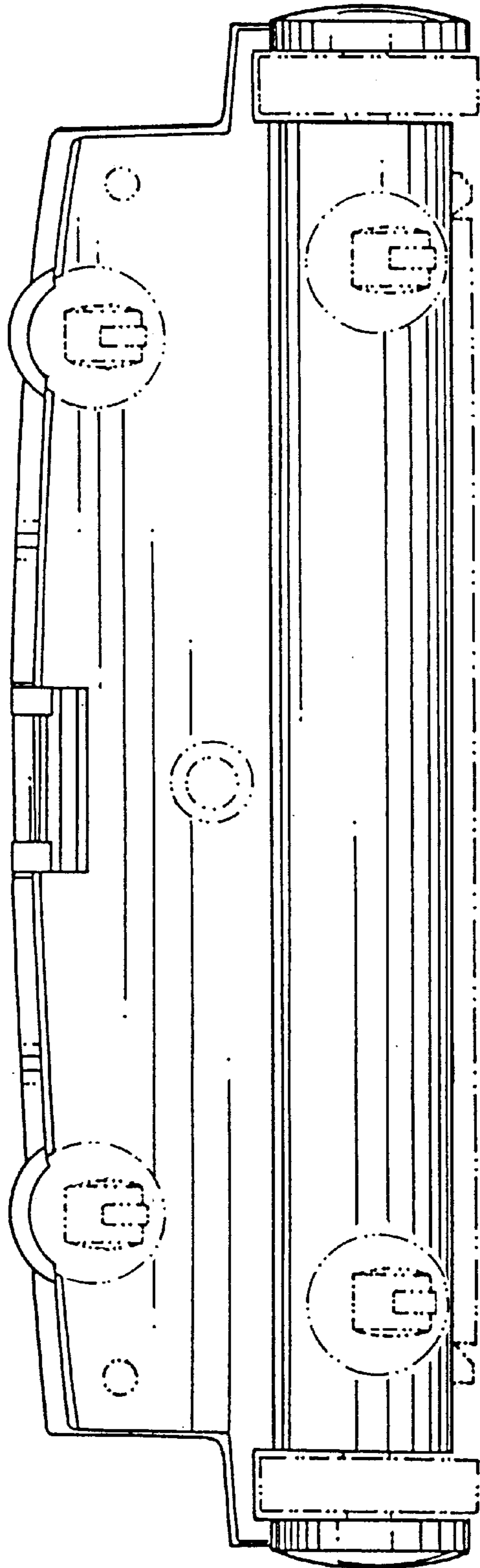


Fig. 9

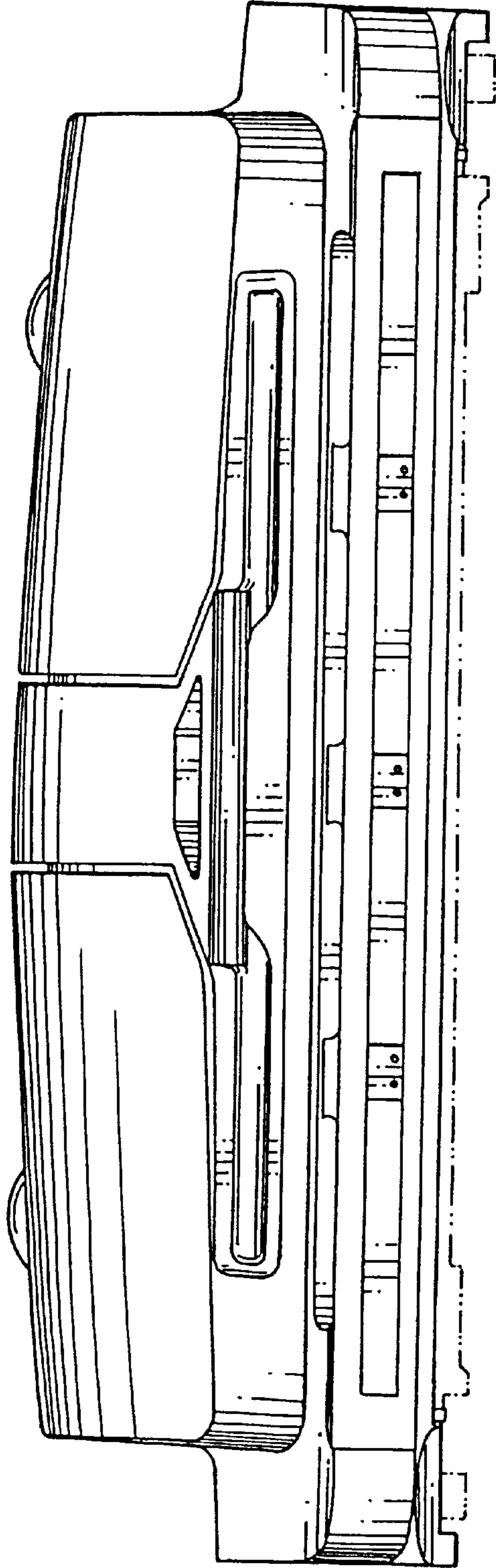


*Fig. 10*





*Fig. 11*



*Fig. 12*

*Fig. 13*

