

[54] **RIBBON CASSETTE**

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[73] **Assignee: Smith Corona Corporation**

[\*] **Notice: The portion of the term of this patent subsequent to May 22, 2004 has been disclaimed.**

[\*\*] **Term: 14 Years**

[21] **Appl. No.: 185,768**

[22] **Filed: Apr. 19, 1988**

**Related U.S. Application Data**

[63] **Continuation-in-part of Ser. No. 127,002, Nov. 30, 1987.**

[52] **U.S. Cl. .... D18/12**

[58] **Field of Search ..... D18/12, 22, 23, 899; 400/196, 196.1, 208**

**References Cited**

**U.S. PATENT DOCUMENTS**

- D. 234,633 3/1975 Bellini ..... D64/11 A
- D. 253,239 10/1979 Lenney et al. .... D18/12
- D. 253,312 10/1979 Lenney et al. .... D18/12
- D. 253,354 11/1979 Lenney ..... D18/12
- D. 289,529 4/1987 Cappotto et al. .
- 3,348,650 10/1967 Meinherz et al. .
- 3,677,486 7/1972 Findlay .
- 3,731,781 5/1973 Caudill et al. .
- 3,923,141 12/1975 Hengelhaupt .
- 4,131,372 12/1978 Hengelhaupt .
- 4,239,107 12/1980 Boyatt, Jr. et al. .
- 4,247,210 1/1981 Kacmarcik et al. .
- 4,302,118 11/1981 Schaefer ..... 400/208
- 4,329,072 5/1982 Kacmarcik .
- 4,347,007 8/1982 Schaefer .
- 4,350,453 9/1982 Field et al. .
- 4,353,657 10/1982 Schaefer .
- 4,395,149 7/1983 Longrod .
- 4,397,575 8/1983 Aldrich .
- 4,402,621 9/1983 Abell, Jr. et al. .... 400/208
- 4,407,593 10/1983 Haftmann .
- 4,475,829 10/1984 Goff, Jr. et al. .
- 4,516,137 5/1985 Yasui .
- 4,606,662 8/1986 Komplin .

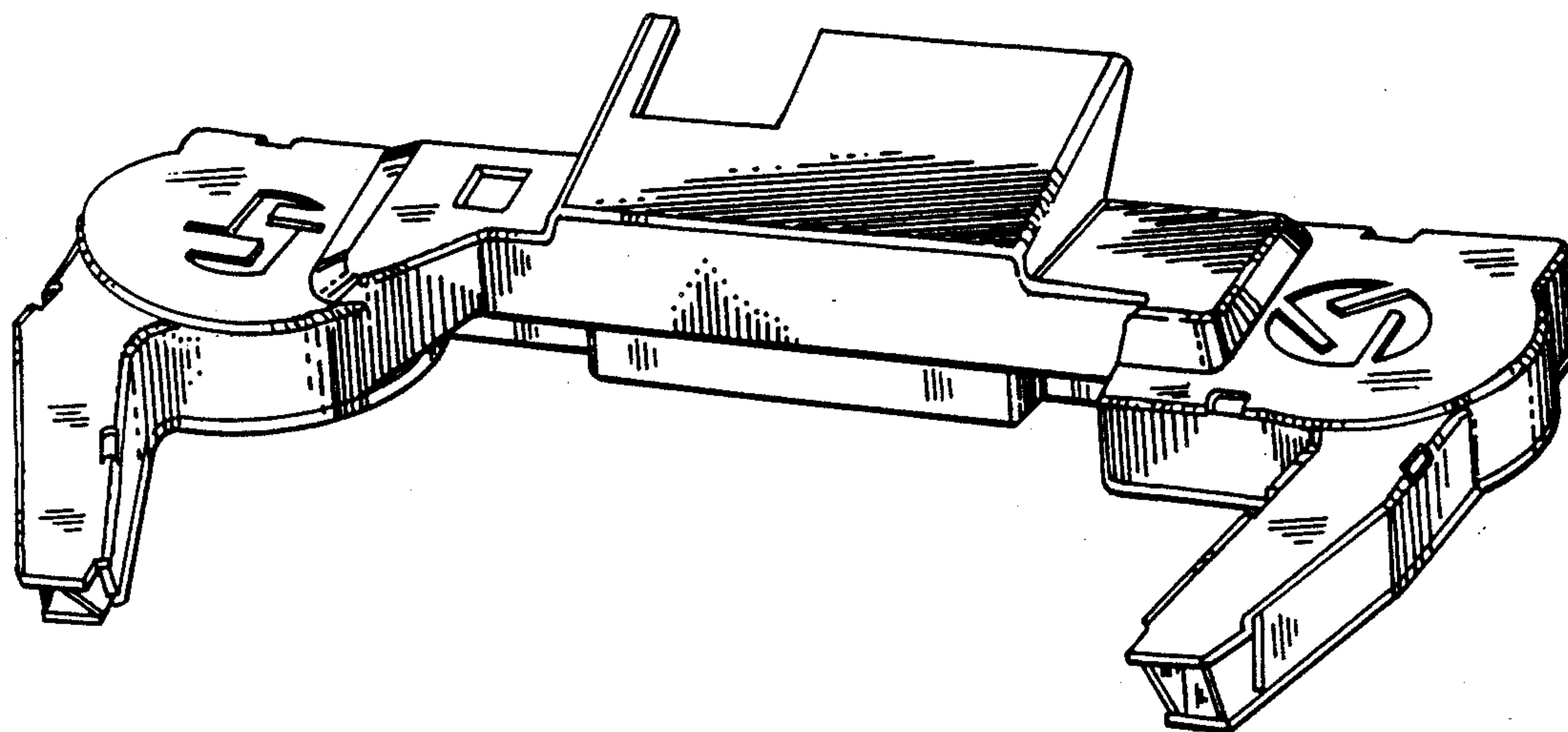
- 4,611,936 9/1986 Yasui .
- 4,611,938 9/1986 Rettke et al. .
- 4,616,945 10/1986 Kemplin ..... 400/208
- 4,636,097 1/1987 Goubeaux .
- 4,676,678 6/1987 Watanabe ..... 400/208
- 4,694,305 9/1987 Shiomi et al. .
- 4,747,714 5/1988 Moritz et al. .

**FOREIGN PATENT DOCUMENTS**

- 2705127 10/1977 Fed. Rep. of Germany .
- 2642069 3/1978 Fed. Rep. of Germany .
- 3346482 7/1984 Fed. Rep. of Germany .
- 56-144985 11/1981 Japan .
- 57-178884 11/1982 Japan .
- 58-191184 11/1983 Japan .
- 59-70597 4/1984 Japan .
- 59-78879 5/1984 Japan .
- 59-93376 5/1984 Japan .
- 61-31284 2/1986 Japan .
- 61-54975 3/1986 Japan .
- 61-66682 4/1986 Japan .
- 61-146576 7/1986 Japan .
- 62-25079 2/1987 Japan .
- 2179917 3/1987 United Kingdom .

**OTHER PUBLICATIONS**

- Quill catalogue, p. 128, IBM Wheelwriter Lift-Off Tape cassette.
- IBM Technical Disclosure Bulletin, "Page Width Ribbon Cartridge and Drive Mechanism", Thorne, vol. 25, No. 4, Sep. 1982, pp. 2020-2022.
- IBM Technical Disclosure Bulletin, "Web-Tension Sensing Devices", Buchholz et al., vol. 25, No. 4, Sep. 1982, pp. 2066-2067.
- IBM Technical Disclosure Bulletin, "Constant Head Wrap Tape Drive", Wenner, vol. 25, No. 4, Sep. 1982, p. 2068.
- IBM Technical Disclosure Bulletin, "Two Color Cartridge Ribbon System With Correction", Schaefer, vol. 22, No. 6, Nov. 1979, pp. 2327-2329.
- IBM Technical Disclosure Bulletin, "Protective Carton", Dunning et al., vol. 25, No. 4, Sep. 1982, pp. 1944-1945.
- IBM Technical Disclosure Bulletin, "Low Cost Cartridge Code Detector", Craft, vol. 25, No. 4, Sep. 1982, pp. 1980-1981.
- IBM Technical Disclosure Bulletin, "Web-Guiding



Stress Functions", Winarski, vol. 25, No. 4, Sep. 1982, p. 2069.

IBM Technical Disclosure Bulletin, "Stuffer Ribbon Cartridge", Purcell, vol. 25, No. 4, Sep. 1982, pp. 2153-2154.

IBM Technical Disclosure Bulletin, "End-Of-Ribbon Sensor and Cartridge-Present Indicator", Jenkins, vol. 27, No. 6, Nov. 1984, pp. 3645-3647.

IBM Technical Disclosure Bulletin, "Printer Ribbon Cartridge Insertion Position Locators", vol. 29, No. 4, Sep. 1986, pp. 1571-1572.

1989 Catalog, Lynn Edwards Corp., North Highlands, Calif., p. 379.

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[57]

**CLAIM**

The ornamental design for a ribbon cassette, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view taken from the top, rear, and left side of a ribbon cassette showing our new design;

FIG. 2 is a right side elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a top plan view thereof;

FIG. 6 is a front elevational view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a perspective view taken from the top, rear and left side of a modified form of the ribbon cassette shown in FIG. 1;

FIG. 9 is a right side elevational view of FIG. 8;

FIG. 10 is a rear elevational view of FIG. 8;

FIG. 11 is a left side elevational view of FIG. 8;

FIG. 12 is a top plan view of FIG. 8;

FIG. 13 is a front elevational view of FIG. 8; and

FIG. 14 is a bottom plan view of FIG. 8.

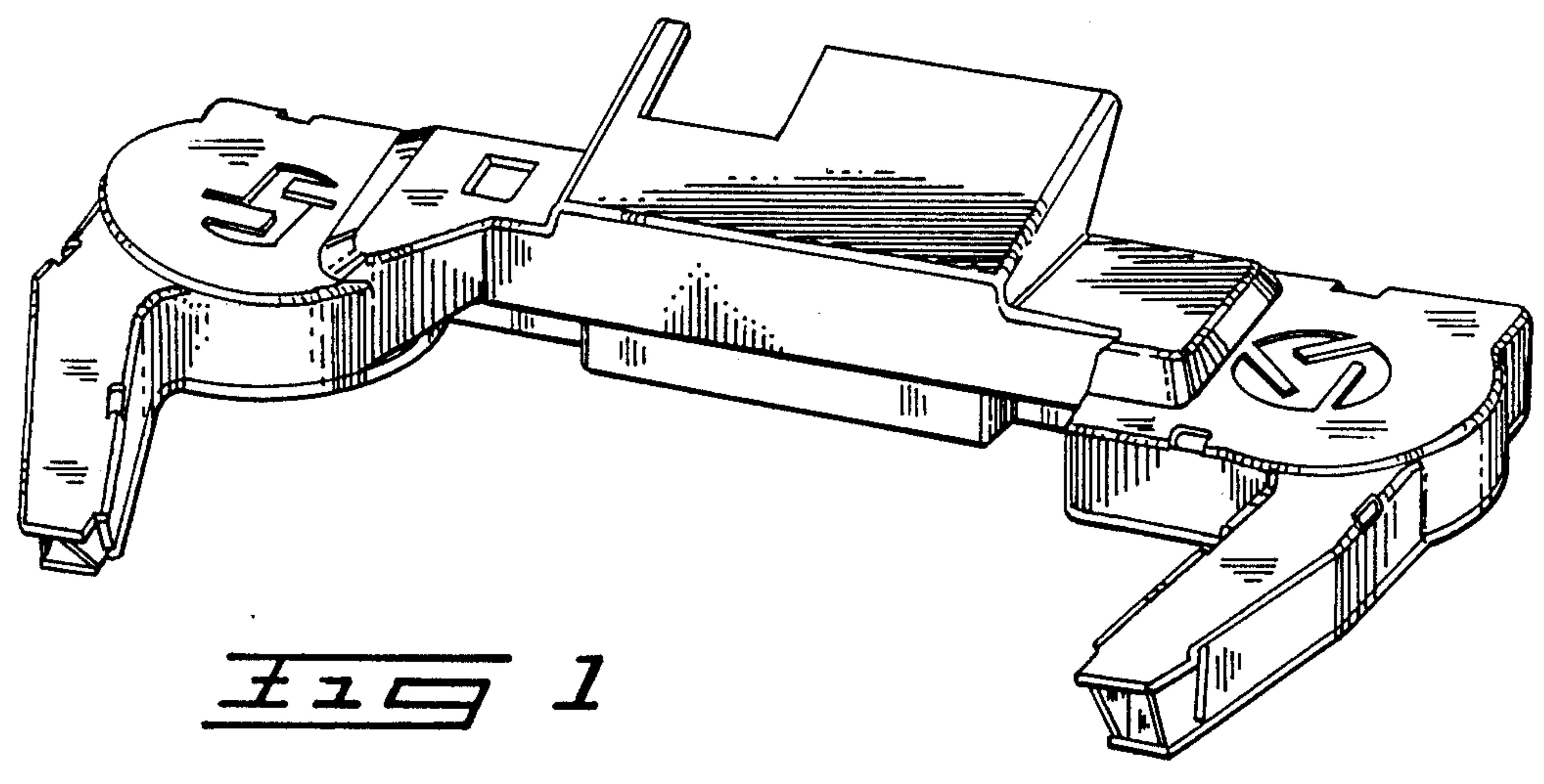


FIG 1

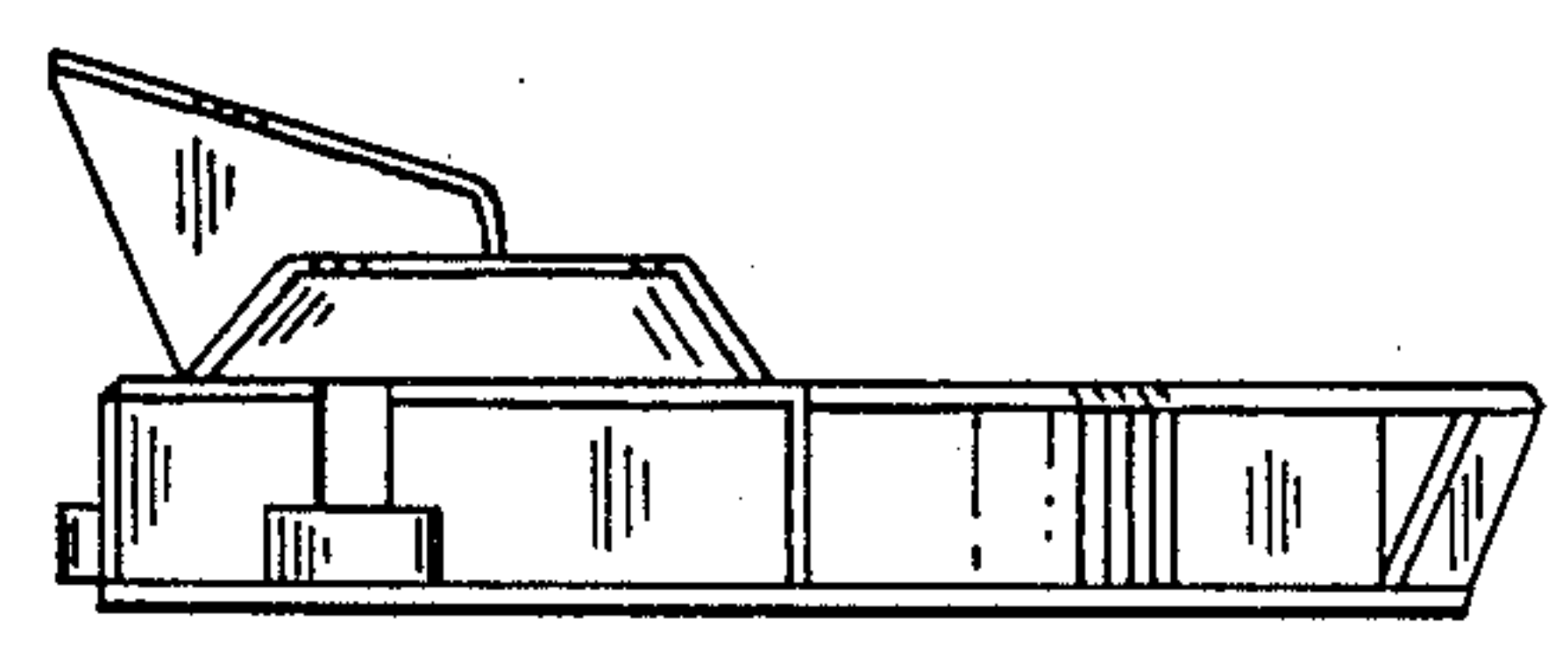


FIG 2



FIG 3

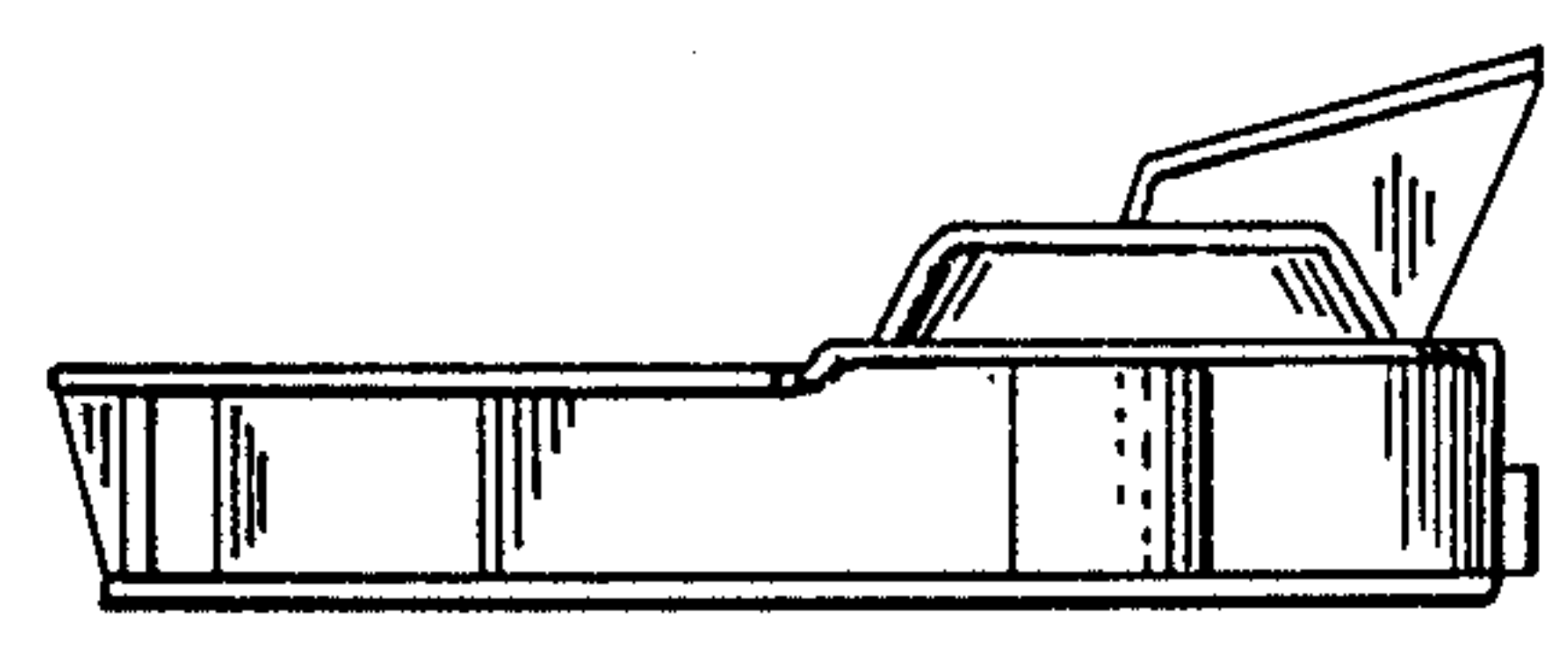


FIG 4



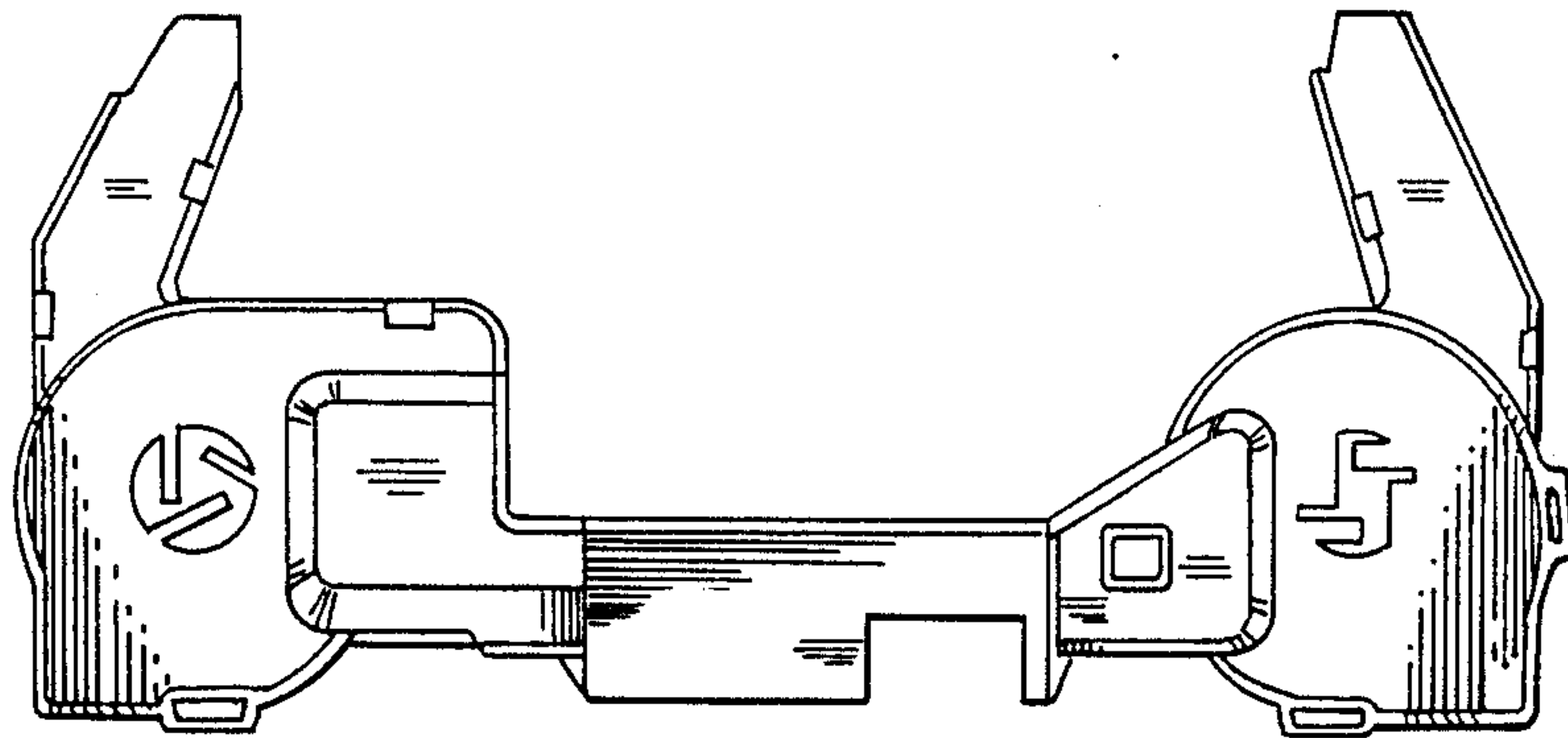


FIG 5

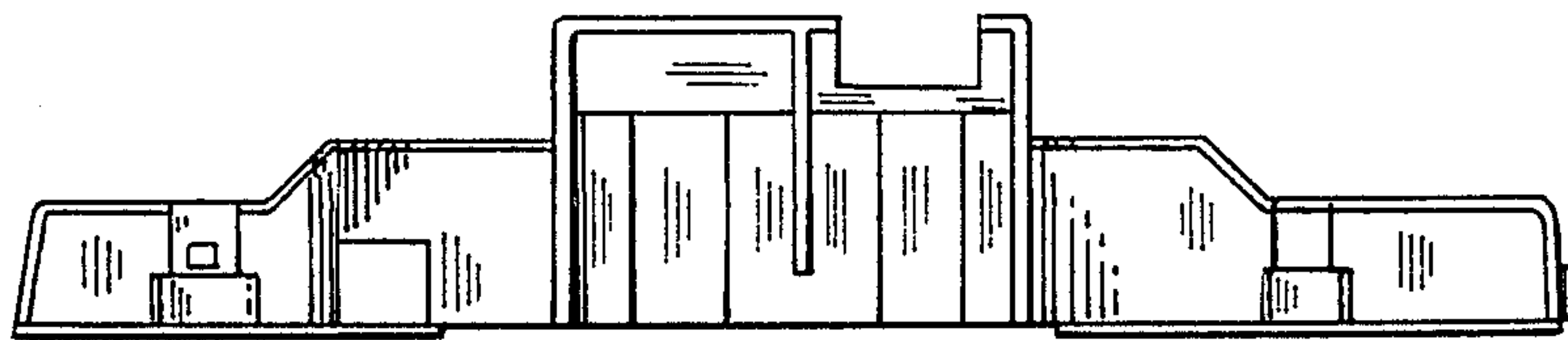


FIG 6

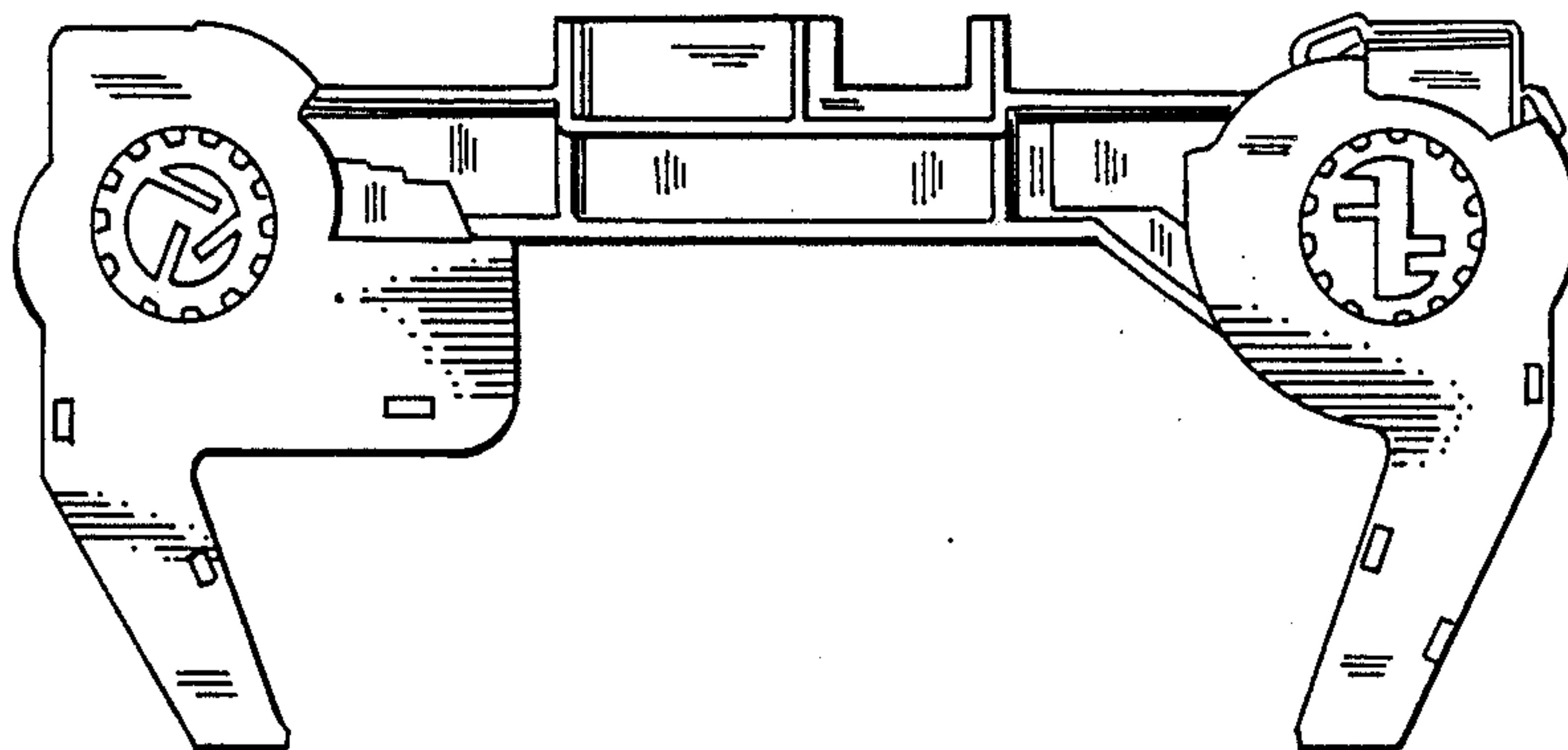


FIG 7

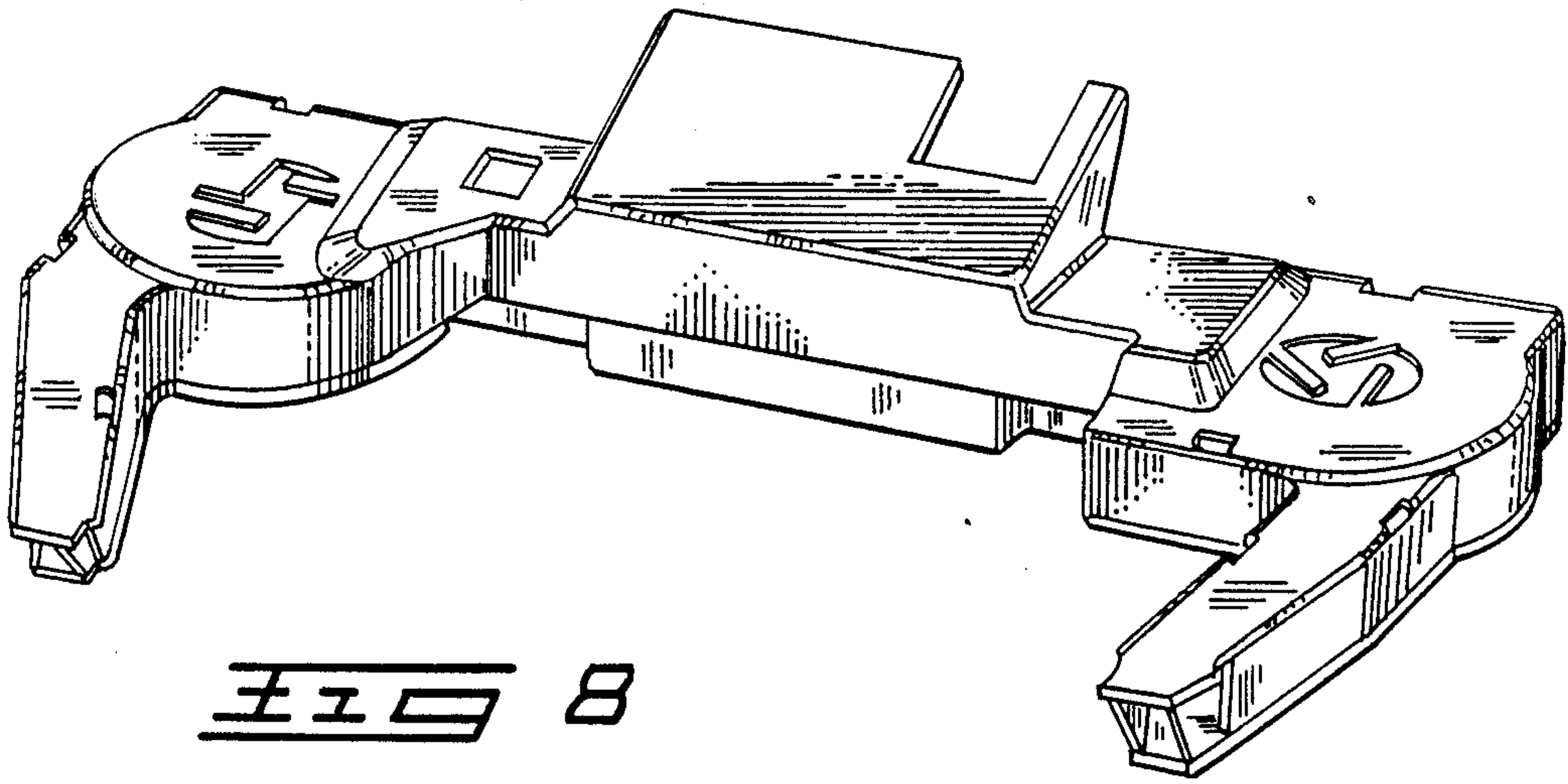


FIG 8

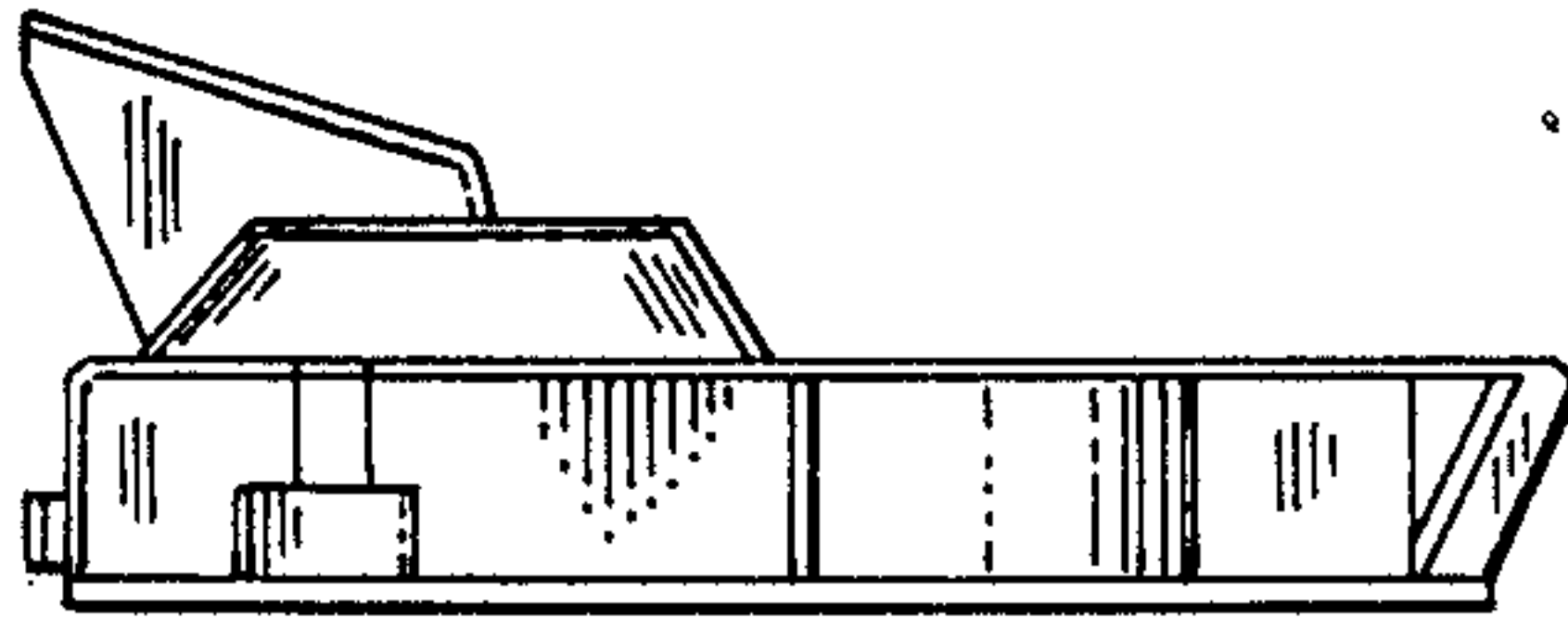


FIG 9

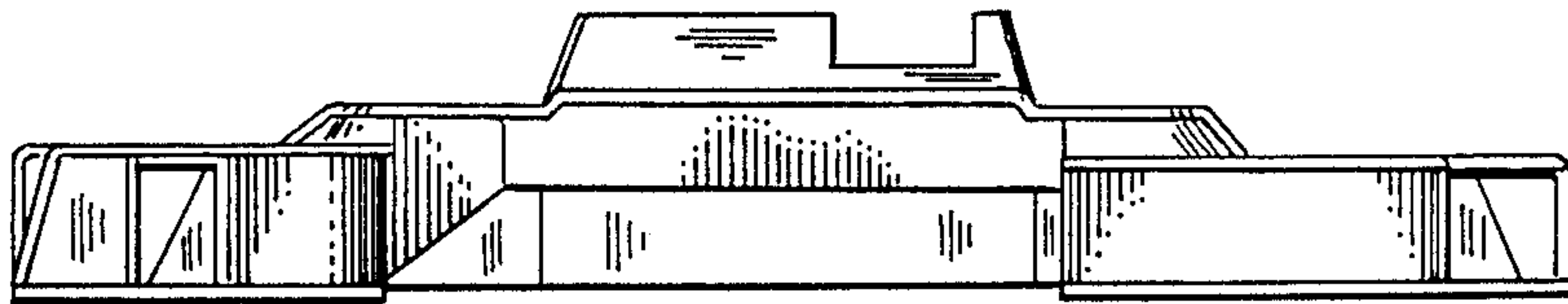


FIG 10

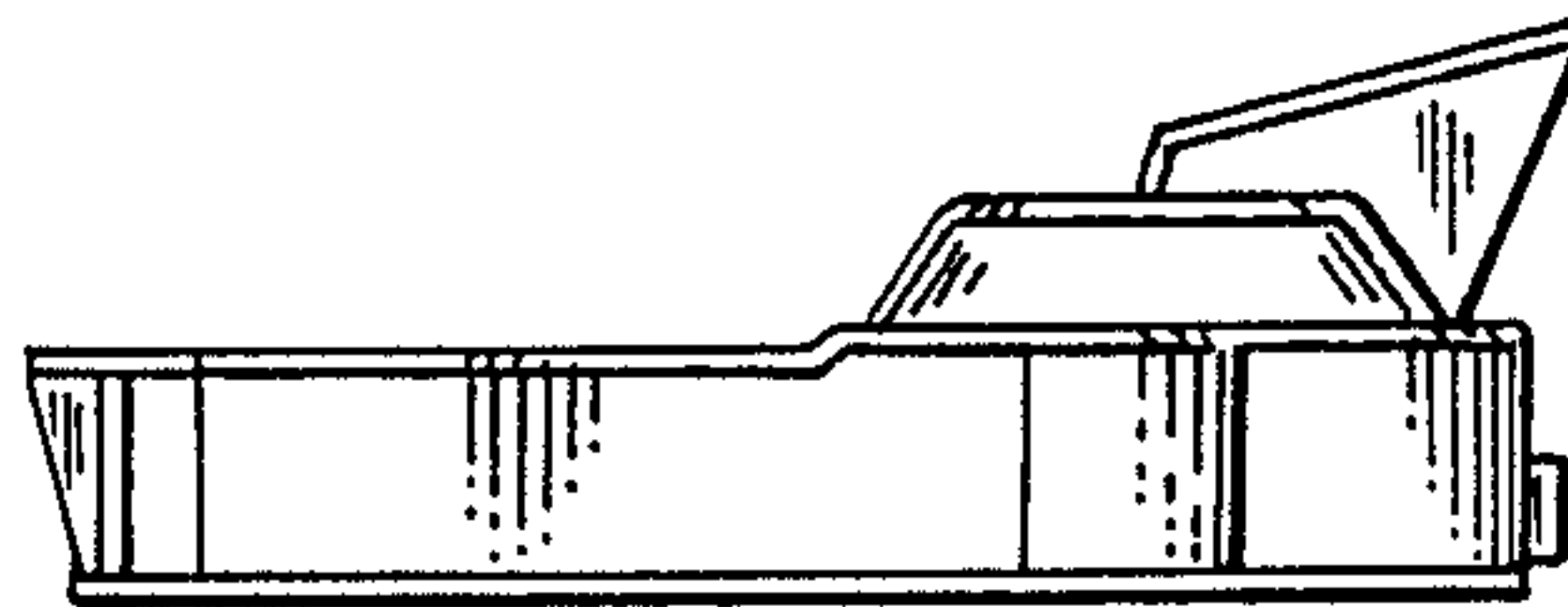


FIG 11

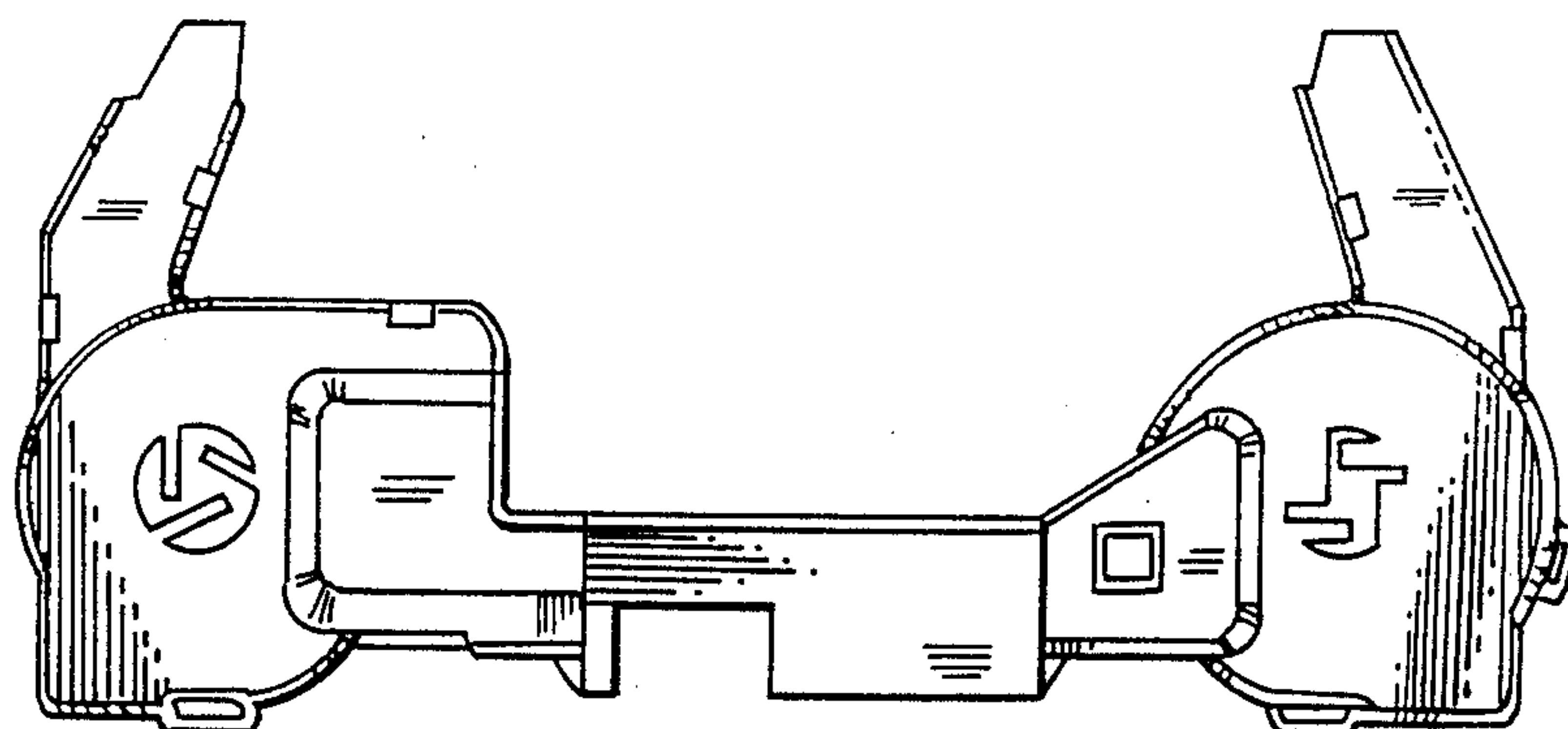


FIG 12

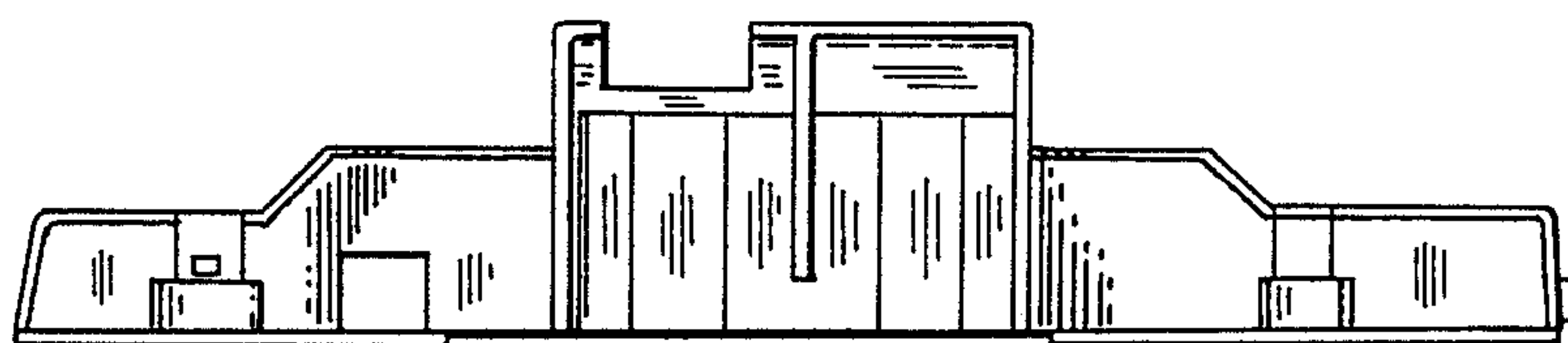


FIG 13

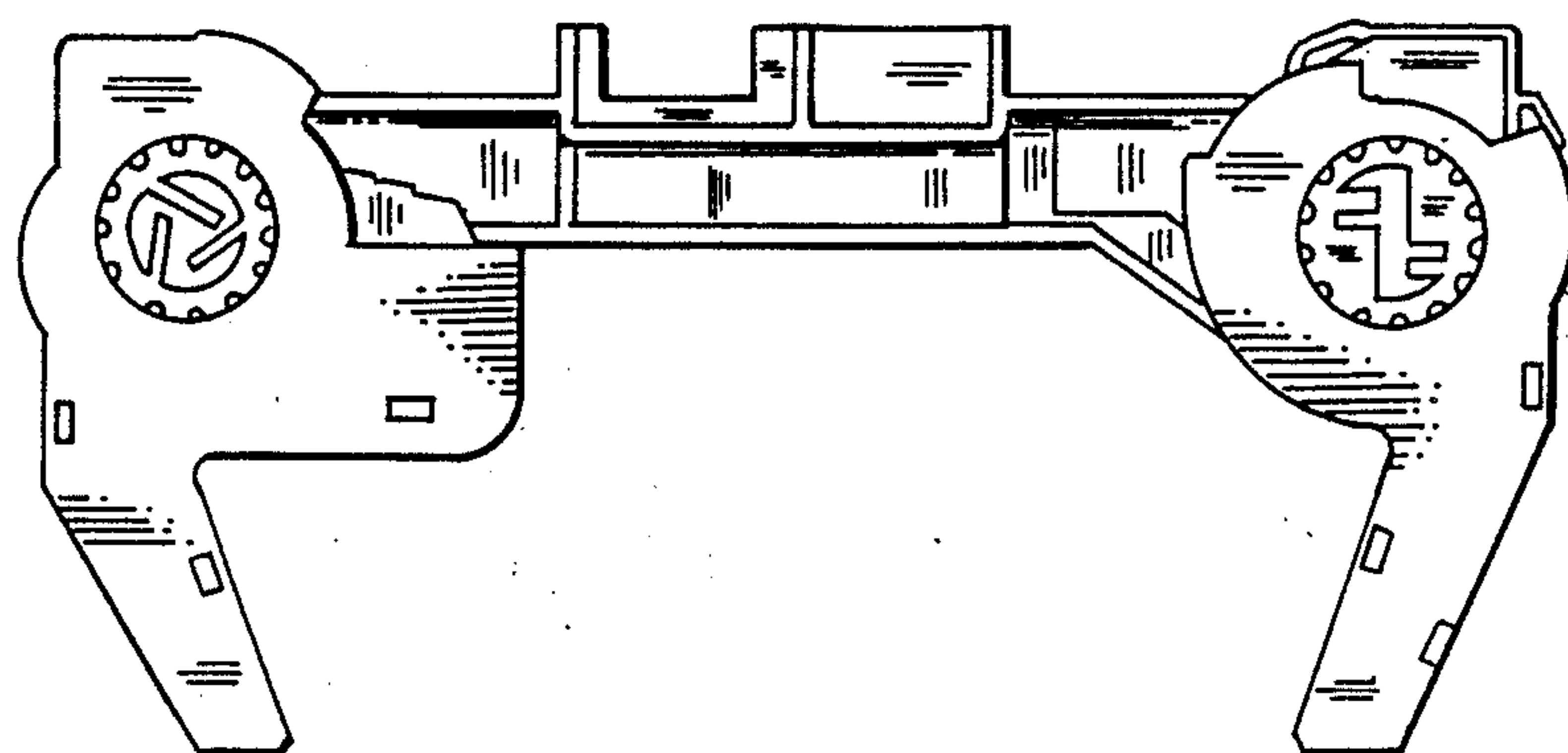


FIG 14